

Учешће на актуелним програмима истраживања



ИНСТИТУТ ЗА НУКЛЕАРНЕ НАУКЕ "ВИНЧА"
ИНСТИТУТ ОД НАЦИОНАЛНОГ ЗНАЧАЈА ЗА РЕПУБЛИКУ СРБИЈУ
УНИВЕРЗИТЕТ У БЕОГРАДУ

Мике Петровића Аласа 12-14
П.фах 522, 11001 Београд
Матични број: 07035250
ПИБ: 101877940

Телефон директора: (011) 3408-104
E-mail: office@vinca.rs
www.vinca.rs

Ваш знак:

Наш знак: 601-311-2/2023-030 Винча, 29. 8. 2023.

ПОТВРДА

Овим документом потврђује се учешће кандидата др Душана Средојевића са 12 истраживач месеци на истраживачкој теми бр. 0302305 „Функционални наноматеријали и полимерни нанокомпозити“ у оквиру Потпрограма Д: Неоргански и хибридни наноматеријали, Програма 1. Нови материјали нанонауке.

Руководилац истраживачке теме

Др Јован Недељковић
Научни саветник

Директор Института „Винча“

Проф.др Снежана Пајовић

Руковођење подпројектним задатком



ИНСТИТУТ ЗА НУКЛЕАРНЕ НАУКЕ "ВИНЧА"
ИНСТИТУТ ОД НАЦИОНАЛНОГ ЗНАЧАЈА ЗА РЕПУБЛИКУ СРБИЈУ
УНИВЕРЗИТЕТ У БЕОГРАДУ

Мике Петровића Аласа 12-14
П. фах 522, 11001 Београд
Матични број: 07035250
ПИБ: 101877940

Телефон директор: (011) 3408-104
E-mail: office@vinca.rs
www.vinca.rs

Ваш знак:

Наш знак: 611-311-3/2023-030 Винча, 29. 8. 2023.

Пројектни задаци др Душана Средојевића у оквиру пројекта: „Материјали редуковане димензионалности за ефикасну апсорпцију светлости и конверзију енергије“

У оквиру пројекта „Материјали редуковане димензионалности за ефикасну апсорпцију светлости и конверзију енергије“ (бр. 45020), чија је реализација започела 2011. године, **др Душан Средојевић** руководи задацима који се односе на теоријско моделовање различитих хибридних система на бази интерфацијалних комплекса са преносом наелектрисања. У свом раду углавном користи савремене методе теорије функционала густине (ДФТ) у циљу расветљавања електронске структуре и оптичких особина различитих наноматеријала.

Др Јован Недељковић,
научни саветник Института за нуклеарне науке „Винча“,
руководилац пројекта „Материјали редуковане димензионалности за ефикасну
апсорпцију светлости и конверзију енергије“

Одлука о чланству у комисији за оцену научно-истраживачког рада за избор у звање

Институт за нуклеарне науке „Винча“ Институт од националног значаја за Републику Србију,
Универзитет у Београду

Веће области нанонауке и нанотехнологије

Предмет: Молба за покретање поступка за избор у звање научни сарадник др Слађане
Доронтић, истраживача сарадника Лабораторија за радијациону хемију и физику „Гама“ –
030.

У складу са законом о научно-истраживачкој делатности и критеријумима за стицање
научних звања молим Веће области нанонауке и нанотехнологије да покрену поступак за избор др
Слађане Доронтић у звање научни сарадник. Др Слађана Доронтић је изабрана у звање истраживача
сарадника на седници Научног већа Института за нуклеарне науке „Винча“ одржаној 28.04.2022.
године.

За оцену научно-истраживачког рада кандидаткиње за избор у звање **научни сарадник**, предлаже
се комисија у следећем саставу:

1. др Светлана Јовановић Вучетић, научни саветник Института за нуклеарне науке „Винча“,
Института од националног значаја за Републику Србију, Универзитета у Београду – председник
комисије
2. др Јована Прекодравац, научни сарадник Института за нуклеарне науке „Винча“, Института од
националног значаја за Републику Србију, Универзитета у Београду
3. др Душан Средојевић, виши научни сарадник Института за нуклеарне науке „Винча“, Института
од националног значаја за Републику Србију, Универзитета у Београду
4. др Бојана Недић-Васиљевић, ванредни професор Факултета за физичку хемију, Универзитета у
Београду

У Београду

21.06.2023.

Подносилац молбе

др Слађана Доронтић
Слађана Доронтић

Лабораторија за радијациону хемију и физику „Гама“ – 030

Институт за нуклеарне науке „Винча“ Институт од националног значаја за Републику Србију,
Универзитет у Београду

У овој молби налази се:

1. Стручна биографија кандидаткиње
2. Обједињени списак научних радова
3. Одлуку о претходном избору у звање истраживач сарадник
4. Диплому о завршеним основним академским студијама
5. Уверење о завршеним мастер академским студијама

Чланства у одборима међународних научних конференција:



Humboldt Conference on Noncovalent Interactions

Vršac, 15-18 November 2007

[Home](#)

[Invited speakers](#)

[Program](#)

[Local information](#)

[About Vršac](#)

[Getting to Vršac](#)

[Accommodation](#)

[Contact](#)

[Registration](#)

[Deadline](#)

[Conference pictures](#) NEW

NEW [Second Humboldt Conference on Noncovalent Interactions](#) NEW

Scope of the Conference

The main scope of the conference is to inform researchers from South Eastern Europe interested in the noncovalent interactions about the latest results in the field and to enable researchers to get in touch and to exchange ideas. The conference, in particular, should provide young scientists with an overview of different methods that are used in studying noncovalent interactions and give them opportunity to present their own results.

The possibility of researchers from South Eastern Europe to make contacts should help to establish collaborations, what should help developing of the field in the region.

The Conference is sponsored by Humboldt Foundation.

Conference participants of selected contributions will be invited to submit their contributions as regular research articles, communications or reviews to [Central European Journal of Chemistry \(CEJC\)](#) after the meeting. All submitted papers will go under regular peer review process. Accepted contributions will be published with a special note highlighting the meeting in the regular issues of CEJC.

Support for conference fee, accommodation, or travel expenses. The researchers from South Eastern Europe can apply for the support for conference fee, accommodation, or travel expenses.

Scientific Committee

Snežana Zarić, Serbia
Horst Bornmann, Germany
Matthias Ullmann, Germany
Ionel Haiduc, Romania
Jean-Pierre Djukić, France
Gabor Naray-Szabo, Hungary

Organizing Committee

Snežana Zarić, Serbia
Vesna Medaković, Serbia
Srđan Stojanović, Serbia
Zoran Tomić, Serbia
Dušan Sredojević, Serbia
Goran Janjić, Serbia

Contact details

Snežana Zarić
Department of Chemistry
University of Belgrade
Studentski trg 16, 11001 Belgrade
Serbia
Email: szaric@chem.bg.ac.rs
Phone: +381 11 3336 605

Second Humboldt Conference on Noncovalent Interactions

Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

[Home](#) | [Invited speakers](#) | [Program](#) | [Local information](#) | [Registration](#) | [Deadline](#) | [Contact](#)

Vršac
22-25 October, 2009

Contact

Scientific Committee

Snežana Zarić, Serbia
Horst Bormann, Germany
Matthias Ullmann, Germany
Michael Hall, USA
Ionel Haiduc, Romania
Jean-Pierre Djukic, France
Gabor Naray-Szabo, Hungary

Organizing Committee

Snežana Zarić, Serbia
Vesna Medaković, Serbia
Božidarka Zarić, Serbia
Srđan Stojanović, Serbia
Zoran Tomić, Serbia
Dušan Sredojević, Serbia
Goran Janjić, Serbia

Contact details

Snežana Zarić
Department of Chemistry
University of Belgrade
Studentski trg 16, 11001 Belgrade, Serbia
Email: szaric@chem.bg.ac.rs
Phone: +381 11 3336 605
Mobile phone: +381 64 707 5000
Fax: +381 11 2184 330

Предавања на научним конференцијама по позиву:

Резултат 1 из категорије М32



**ACS Research Conference:
CHEMISTRY AND CHEMICAL
ENGINEERING IN MENA**

April 4, 2022

To Whom It May Concern,

The American Chemical Society (ACS) Qatar Chapter has invited Dusan Sredojevic to attend and present research at the ACS Research Conference: Chemistry and Chemical Engineering in MENA from May 9-11, 2022 in Doha, Qatar. Our conference is proud to be under the patronage of H.E. Dr. Ibrahim Al-Naimi, Undersecretary of the Ministry of Education and Higher Education, State of Qatar.

Organized by the ACS Qatar chapter, the conference goal is to advance the Middle East and North African regions' culture of research and development, engineering progresses, and educational outreach. Such involvement runs parallel to the industrial, economic, and educational expansion in Qatar.

Beyond the value of this conference to MENA-based scholars, our meeting will be an opportunity to exchange ideas and for discussions with distinguished scientists and engineers attending from all over the world. I am delighted to announce that two of the 2016 Nobel Laureates, Sir Fraser Stoddart, and Ben L. Feringa will be our plenary speakers.

The conference would not be possible without the generous patronage of our sponsors, Qatar Fertiliser Company Ltd. (QAFCO), Texas A&M University at Qatar, Qatar Airways (our exclusive and the Official Airline Partner), ConocoPhillips Qatar, the Qatar Foundation, and Qatar University. Their support of this meeting proves their commitment to enriching the culture of research and development in Qatar and the MENA region.

We look forward to welcoming you as an invited colleague, and we look forward to you sharing your research with fellow colleagues in the chemical and chemical engineering fields.

Sincerely,

G. Benjamin Cieslinski
Conference Committee Member
<https://acs.qa/>
Texas A&M University at Qatar

Резултат 2 из категорије М32



January 22, 2019

Dr. Dusan Sredojevic
Science Program, Texas A&M University at Qatar, Education City, Doha, Qatar

Invitation to attend the EMN Rome Meeting 2019

Dear Dr. Dusan Sredojevic,

On behalf of the conference chair and committees, we are pleased to invite you to deliver an oral talk at the 2019 EMN Rome Meeting. This conference will be held at Cardinal Hotel St. Peter Rome, Rome, Italy from May 13 to 17, 2019. For more detailed information, the website is accessible at <http://emnmeeting.org/2019-roma/>.

The EMN meeting began in 2008 as a small workshop held at a traditional villa in Orlando, Florida. Since then it has grown steady and become global event. We currently have meetings in USA(Orlando, Las Vegas, Hawaii), Cancun, China(Beijing, Chengdu, Hong Kong), Europe(Amsterdam, Dubrovnik, San Sebastian, Barcelona, Berlin, Budapest, Prague) annually.

The 2019 EMN Rome Meeting aims to be a unique platform for leading scientists, researchers, scholars and engineers from academia, R&D laboratories and industry around the world to exchange, share and learn the most recent advancement on various aspects related to Energy, Materials and Nanotechnology..

The meeting will be a few days of intense collaboration with great social occasions. It will be not only a time to enjoy the company of fellow researchers in the field, but also a time to have fun with friends and colleagues.

We look forward to working with you at the EMN Rome 2019 and trust your invited presentation will thus add an important dimension to the topics of this meeting.

Sincerely yours,

Istituto Euro-Mediterraneo di Scienza e Tecnologia
Via Michele Miraglia / Piazzetta Briucola 20, Palermo - CAP/ZIP: 90139.
Tel.: +39.091.333913 – Mob. +39 333 4686017 - e-mail: presidenza@iemest.eu - segreteria@iemest.eu
Registrato all'Anagrafe Nazionale delle Ricerche del MIUR (codice di iscrizione: 60070MXR)
C.F.: 97238720821 – Partita IVA: 05926140822 - PIC number 2014-2020: 930192559

Рецензије научних радова и пројеката:

Applied Surface Science

The screenshot shows a web browser window with multiple tabs. The active tab is an email client interface (Roundcube) displaying an email from Ian Shuttleworth to Dušan Sredojević. The email is a "Reviewer Invitation for APSUSC-D-21-08018". It includes the journal title "Applied Surface Science", the manuscript title "Metal-doped Cr2O3 as a catalyst for non-oxidative propane and butane dehydrogenation: a multiscale kinetic study", and a detailed abstract. The email also provides links for reviewing the manuscript and alternative reviewers, and instructions for logging in as a reviewer.

Reviewer Invitation for APSUSC-D-21-08018

From: Ian Shuttleworth
To: Dušan Sredojević
Date: 2021-07-02 15:20

Ms. Ref. No.: APSUSC-D-21-08018
Title: Metal-doped Cr2O3 as a catalyst for non-oxidative propane and butane dehydrogenation: a multiscale kinetic study
Applied Surface Science

Dear Dušan Sredojević,

You are invited to review the above-mentioned manuscript that has been submitted for publication in Applied Surface Science.

The following is a link to the PDF file of the manuscript
<https://www.editorialmanager.com/apsusc/1.asp?i=1929603&l=CPX52CM71>

If you are willing to review this manuscript, please click on the link below:
<https://www.editorialmanager.com/apsusc/1.asp?i=1929603&l=UPW01M44>

If you are not able to review this manuscript, please click on the link below. We would appreciate receiving suggestions for alternative reviewers:
<https://www.editorialmanager.com/apsusc/1.asp?i=1929603&l=SCFMY12>

Alternatively, please respond online at <https://www.editorialmanager.com/apsusc/>. You will need to login as a Reviewer, using the following details:

Your username is: DušanSredojević
If you need to retrieve password details, please go to: <https://www.editorialmanager.com/apsusc/1.asp?i=1929603&l=UPW04CCW>

You can also retrieve your password by using the below link: http://www.elsevier.com/apsusc/automail_query.asp

Please select the "New Invitations" link on your Main Menu, then choose to "Accept" or "Decline" this invitation, as appropriate.

Abstract:
Molecules that are difficult to convert catalytically often require complex and specially tailored catalyst composition. Catalytic alkane dehydrogenation is an interesting example, where theoretical ab-initio and kinetic meso-scale simulations can provide understanding of the performance improvement when the catalyst composition is altered. Herein, we study non-oxidative dehydrogenation of propane and butane over variously doped (Na, Li, K, Mg, Ca, or Ce) doped chromium oxide using first principles. The reaction pathway for the conversion of propane to propene/propyne and of butane to 1- and 2-butenes is studied using density functional theory with the Hubbard U correction. Energies and kinetic parameters describing the adsorption, desorption, and surface reactions are used in mean-field microkinetic and kinetic Monte Carlo simulations. The process was modelled at industrially relevant temperatures, pressures, and feed gas flow velocities. Calculating the catalytic



Computational Biology and Chemistry

The screenshot shows an Outlook email client interface. The main pane displays an email from 'em.cbac.0.82c132.65414aba@editorialmanager.com' with the subject 'Thank you for reviewing for Computational Biology and Chemistry'. The email body contains a thank you message from the editorial office, mentioning the manuscript number CBAC-D-23-00286 and the review of 'Reactivities of 4-amino Salicylic Acid (PAS) and its 'Green' inhibition into Nano Sized β -cyclodextrin for Anti-Tuberculosis Drug Delivery'. It also mentions the reviewers: Dr. Pooja Yadav, Dr. Meenakshi Rana, and Prof. Papia Chowdhury. The email includes information about Elsevier's reviewer recognition platform and a 30-day complimentary access period to ScienceDirect and Scopus.

Chemical Physics Letters

The screenshot shows a Roundcube webmail interface. The main pane displays a message from 'CPLETT-20-2986' with the subject 'Review Completed'. The message body contains a confirmation of the review for the manuscript 'A DFT study on carbon dioxide reduction of low-valent diuranium complex supported by a polypyrrolic macrocycle'. It includes the title, corresponding author (Professor Qing-Jiang Fan), and authors (Hong-Xue Cai, Dong-Mei Su, Hong-Bo Shao, Yuan-Ru Qiu). The message also includes a link to the Editorial Manager and a 30-day complimentary access period to ScienceDirect and Scopus.

Chemical Physics Letters

The screenshot shows a Yahoo! Mail interface. The left sidebar contains navigation links: Compose, Inbox (3), Unread, Starred, Drafts (125), Sent, Archive, Spam, Trash, and Less. Below these are links for Views, Photos, Documents, Subscriptions, Groceries, Deals, Receipts, and Travel. The main content area displays an email from 'editorialmanager.com' with the subject 'CPLETT-20-2986 - Review Completed'. The email body includes the following text:

Ms. No. CPLETT-20-2986
Title: A DFT study on carbon dioxide reduction of low-valent diuranium complex supported by a polypyrrolic macrocycle
Corresponding Author: Professor Qing-Jiang Pan
Authors: Hong-Xue Cai, Dong-Mei Su, Hong-Bo Zhao, Yuan-Ru Guo

Dear Dr. Sredojevic,

This is to confirm that we have received your review for the manuscript referenced above. We appreciate the time that you have contributed to this important component of the peer review process.

Should you need to access your review comments, please log onto the Editorial Manager at:
<https://www.editorialmanager.com/cplett/>

Kind regards,
Chemical Physics Letters, Editorial Office
E-mail: cplett@elsevier.com

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/cplett/login.asp?a=r>). Please contact the publication office if you have any questions.

The right sidebar features advertisements for 'Specijalizovani vrtni centar'.

ACS Omega

The screenshot shows a Roundcube webmail interface. The left sidebar contains navigation links: Прилиће, Нацрти, Послате, Отпад, and Снеће. The main content area displays an email from 'ACS Omega' with the subject 'LJ, Jianjun ao-2020-03457q - Sredojevic - Thank you for submitting your review 08-Aug-2020'. The email body includes the following text:

Journal: ACS Omega
Manuscript ID : ao-2020-03457q
Title : "Comparison of Vitamin C and Its Derivative Antioxidant Activity: Evaluated by Using Density Functional Theory"
Author(s) : Liu, Yuyang; Liu, Chuanqun; Li, Jianjun

Dear Dr. Sredojevic:

Thank you for submitting your review of this manuscript. Your time and expertise are greatly appreciated and your comments will help us make a decision regarding its publication in ACS Omega.

We appreciate the voluntary contribution that each reviewer gives to the journal, and we thank you for your participation in the online review process.

Please note that ACS will deposit credit for your completed review to your ORCID profile after an embargo period. For more information about the ACS Reviewer Credit program see https://publish.acs.org/publish/peer_reviews/reviewer_credit/.

If you have not already done so I would very much appreciate if you could update your reviewer expertise on your ACS Paragon Plus home site.

Sincerely,
Prof. Barba Jit Banerjee
Associate Editor
ACS Omega
Email: Banerjee-office@omega.acs.org

PLEASE NOTE: This email message, including any attachments, contains confidential information related to peer review and is intended solely for the personal use of the recipient(s) named above. No part of this communication or any related attachments may be shared with or disclosed to any third party or organization without the explicit prior written consent of the Journal Editor and ACS. If the reader of this message is not the intended recipient or is not responsible for delivering it to the intended recipient, you have received this communication in error. Please notify the sender immediately by e-mail, and delete the original message. Thank you.



New Journal of Chemistry

roundcube

О програму

Назад Нова порука Одговори Одговори с... Проследи Обриши Премести Штантај Отпад Одлажи Још

Причљене 30 Нацрти Послате Отпад Снеће

Your review of New Journal of Chemistry NJ-ART-09-2018-004738.R1

Од New Journal of Chemistry
За njc@rsc.org
Одговори njc@rsc.org
Датум 2018-12-03 11:36

Dear Reviewer

Thank you for providing a report on this manuscript submitted to New Journal of Chemistry. I appreciate the time and expertise you have contributed.

I am writing to inform you that after considering the comments and recommendations of all the reviewers my decision was to accept this manuscript for publication.

For your information any reports relating to this decision are provided below. Please note that this is an automated email sent to all the reviewers of this manuscript. This message should be treated as confidential.

I hope you find this information useful. Thank you for your support of New Journal of Chemistry.

Yours sincerely

Dr A. J. Andre Cobb
Associate Editor, New Journal of Chemistry
ajc@rsc.org

NJ-ART-09-2018-004738.R1
Dehydrogenation of formic acid catalyzed by N-embedded nitrogen-doped graphene (N^o Fe, Ru, Os): A DFT Study
Sivasankar, Chinnappan; Christopher Jeyakumar, Thejalaraj

REVIEWER REPORT(S):

Referee: 2

Comments to the Author
I think this article can be published after the author's modification.

Referee: 1

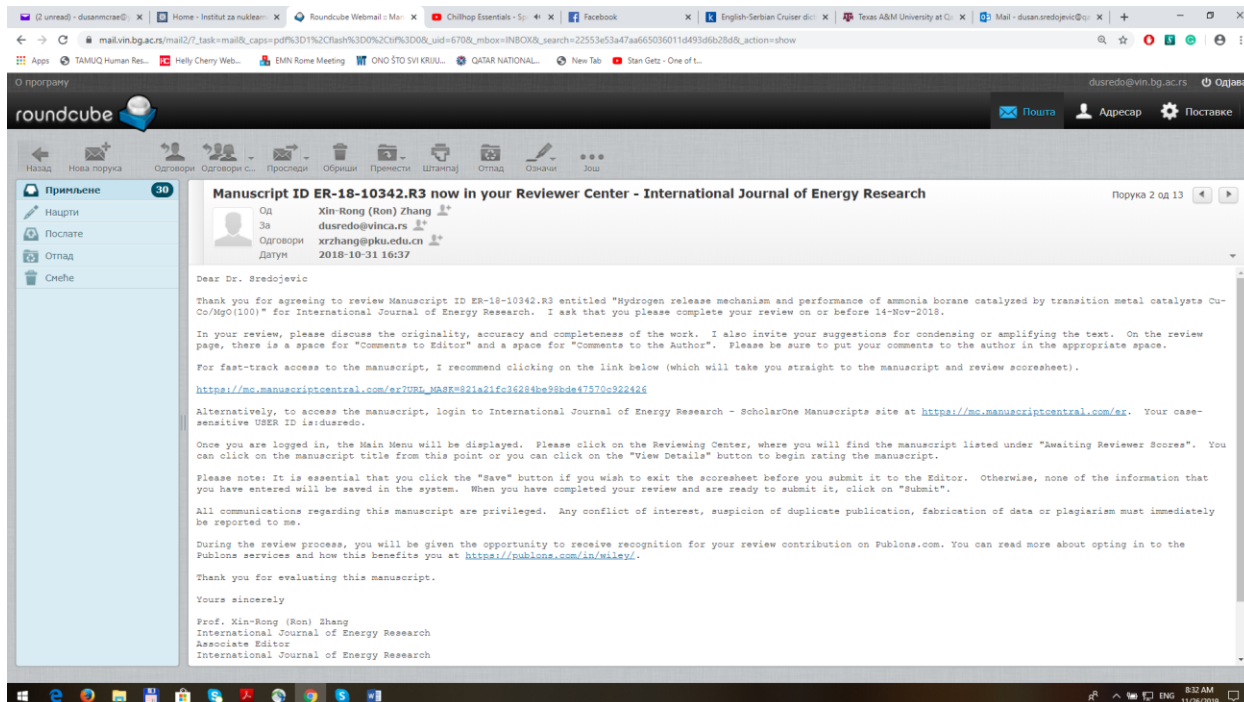
Comments to the Author
The authors provided rational and convincing answers to my questions and properly included appropriate paragraphs and figures in the manuscript. I think that all this improved the manuscript a lot. Hence, I recommend acceptance of this paper. The only thing that is contra-intuitive from my point of view is placing the structures of transition states below the energy diagrams, but I don't insist on that. If the authors cannot find the place on the diagrams to move it up, then is ok.

Please note that for manuscripts which were accepted without a further review this option will be blank.

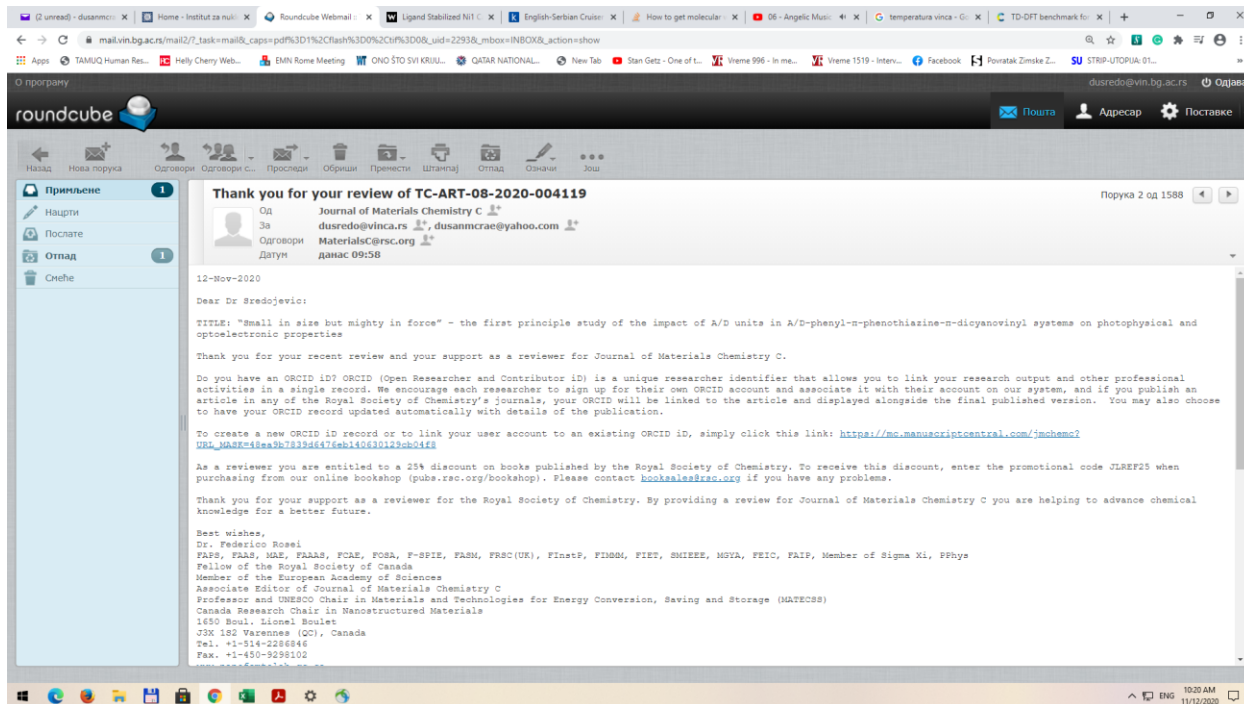
Порука 1 од 12

8:27 AM
11/26/2019

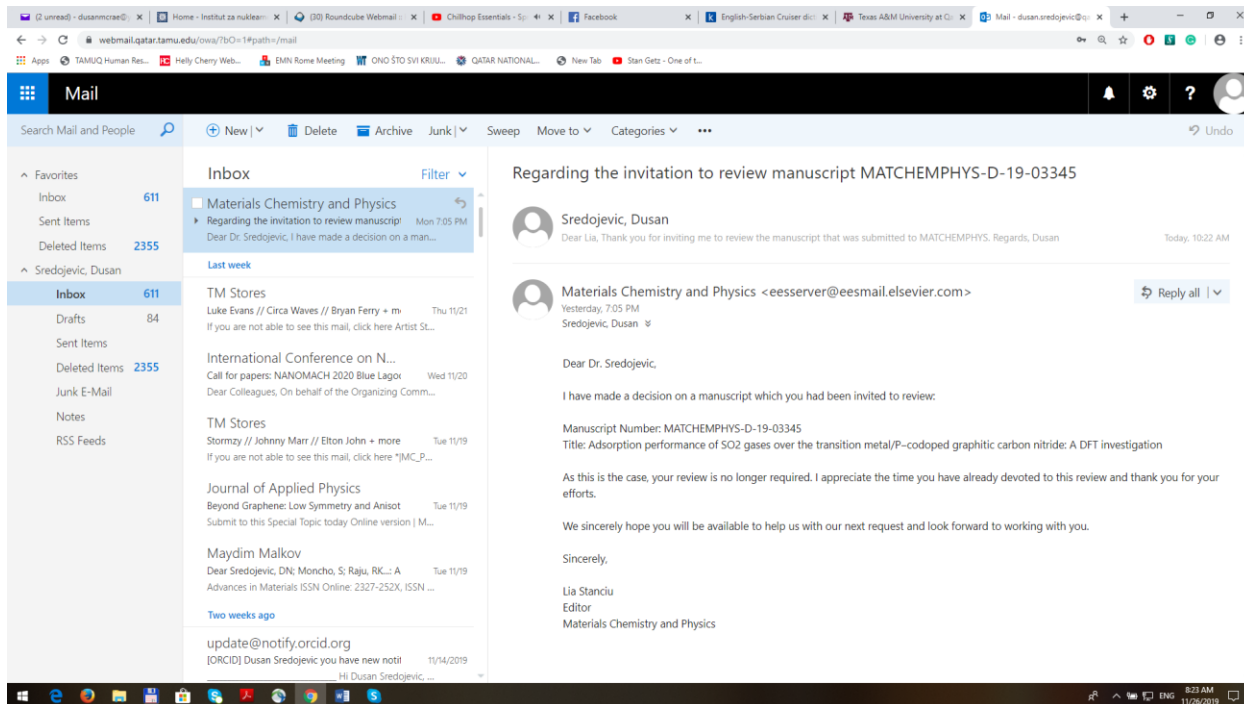
International Journal of Energy Research



Journal of Materials Chemistry C



Materials Chemistry and Physics



Materials Science in Semiconductor Processing

The screenshot shows an Outlook email client interface. The left sidebar displays a list of folders and emails. The main pane shows an email from 'em.mssp.0.7ab009.53e3d73b@editorialmanager.com' to 'Sredojevic, Dusan'. The email subject is 'Thank you for reviewing for Materials Science in Semiconductor Processing'. The body of the email expresses appreciation for the review and provides information about the review process, including a link to the Elsevier Reviewer Hub and a 30-day complimentary access period to ScienceDirect and Scopus. The email is signed 'Kind regards'.

Thank you for reviewing for Materials Science in Semiconductor Processing

Prevedi poruku na: Srpski (latinnica) | Nikad ne prevodi sa: Engleski

em.mssp.0.7ab009.53e3d73b@editorialmanager.com u ime korisnika Materials Science in Semiconductor Processing <em.mssp.0.7ab009.53e3d73b@editorialmanager.com>

Za: Sredojevic, Dusan

Manuscript Number: MSSP-D-22-00469

Designing and Theoretical Characterization of D-π-A 1-π-A 2 typed Organic Small Molecule Donor Materials

Lihui Wang

Dear Sredojević,

Thank you for reviewing the above referenced manuscript. I greatly appreciate your contribution and time, which not only assisted me in reaching my decision, but also enables the author(s) to disseminate their work at the highest possible quality. Without the dedication of reviewers like you, it would be impossible to manage an efficient peer review process and maintain the high standards necessary for a successful journal.

You will shortly receive a notification from Elsevier's reviewer recognition platform, which provides you with a link to your "My Elsevier Reviews" private profile page, certificates, editor recognition as well as discounts for Elsevier services.

I hope that you will consider Materials Science in Semiconductor Processing as a potential journal for your own submissions in the future.

As a token of appreciation, we would like to provide you with a review recognition certificate on Elsevier Reviewer Hub (reviewerhub.elsevier.com). Through the Elsevier Reviewer Hub, you can also keep track of all your reviewing activities for this and other Elsevier journals on Editorial Manager.

If you have not yet activated your 30 day complimentary access to ScienceDirect and Scopus, you can still do so via the [Rewards] section of your profile in Reviewer Hub (reviewerhub.elsevier.com).

You can always claim your 30-day access period later, however, please be aware that the access link will expire six months after you have accepted to review.

Kind regards,

The Journal of Physical Chemistry

The screenshot shows a Roundcube webmail interface. The left sidebar displays a list of folders and emails. The main pane shows an email from 'The Journal of Physical Chemistry' to 'Dusan Sredojevic'. The email subject is 'Thank you for submitting your review of Jp-2021-00914a'. The body of the email expresses appreciation for the review and provides information about the review process, including a link to the ACS Reviewer Credit program and a 30-day complimentary access period to ScienceDirect and Scopus. The email is signed 'Prof. Genna Solomon'.

Thank you for submitting your review of Jp-2021-00914a

Od: The Journal of Physical Chemistry
Za: dusedo@vinca.rs
Cc: solomon-office@journals.acs.org
Datum: danas 12:16

26-Feb-2021

Dear Dr. Sredojevic:

Thank you for reviewing manuscript Jp-2021-00914a, which we recently sent you for review. There is a large community of chemists and chemical engineers, physicists and material scientists who are willing to invest time in the un-thanked and unacknowledged enterprise of reviewing manuscripts and thus helping other scientists to present their work in the best way, and of course significantly helping editors.

Time and time again you have lent assistance to The Journal of Physical Chemistry. We want you to know that your support is deeply appreciated.

Please note that ACS will deposit credit for your completed review to your ORCID profile after an embargo period. For more information about the ACS Reviewer Credit program see https://publish.acs.org/publish/peer_reviews/reviewer_credit/

With sincere regards,


Prof. Genna Solomon
Senior Editor - The Journal of Physical Chemistry
Deputy Editor - ACS Physical Chemistry Au
Editor Email: solomon-office@journals.acs.org
<http://orcid.org/0009-0002-0018-1828>


PLEASE NOTE: This email message, including any attachments, contains confidential information related to peer review and is intended solely for the personal use of the recipient(s) named above. No part of this communication or any related attachments may be shared with or disclosed to any third party or organization without the explicit prior written consent of the Journal Editor and ACS. If the reader of this message is not the intended recipient or is not responsible for delivering it to the intended recipient, you have received this communication in error. Please notify the sender immediately by e-mail, and delete the original message.

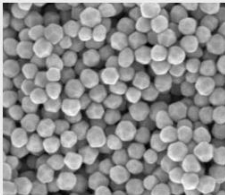
As an author or reviewer for ACS Publications, we may send you communications about related journals, topics or products and services from the American Chemical Society. Please email us at Pubupdates@acs.org if you do not want to receive these. Note, you will still receive updates about your manuscripts, reviews, or future invitations to review.

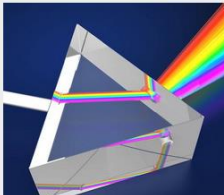
Thank you.


Центар изузетних вредности

**ЦОНВЕРСЕ** [Početak](#) [O nama](#) [Laboratorije](#) [Tim](#) [Oprema](#) [Saradnja](#) [Publikacije i Projekti](#) [Kontakt](#) [Vesti](#)

**za sintezu materijala i nano...**

**za mikrostrukturnu karakter...**

**za spektroskopsku karakter...**

**za primene materijala**

NAUČNI TIM

Rukovodilac Centra: prof dr Miroslav Dramićanin | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |

Rukovodilac Laboratorije za sintezu materijala i nanomaterijala
dr Željka Antić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Saradnici Laboratorije za sintezu materijala i nanomaterijala:
dr Vesna Lazić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Tamara Gavrilović | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Bojana Miličević | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Sanja Kuzman | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Danijela Danilović | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |

Rukovodilac Laboratorije za mikrostrukturnu karakterizaciju
dr Vesna Đorđević | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Saradnici Laboratorije za mikrostrukturnu karakterizaciju
dr Dušan Božanić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Jovana Peniša | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Milica Sekulić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Mina Medić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |

Rukovodilac Laboratorije za spektroskopsku karakterizaciju materijala
dr Zoran Ristić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Saradnici Laboratorije za spektroskopsku karakterizaciju materijala
prof dr Miroslav Dramićanin
dr Vladimir Đoković | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Aleksandar Ćirić | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
prof. dr Mikhail Brik | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |

Rukovodilac Laboratorije za primene materijala
dr Jovan Nedeljković | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Saradnici Laboratorije za primene materijala
dr Dušan Sredojević | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Ivana Zeković | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
dr Radovan Dojčilović | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |
Katarina Milenković | [Scholar](#) | [ORCID](#) | [ResearchGate](#) |

Учешће на летњој школи у организацији GrInShield пројекта

Twinning for New Graphene-based Composites in Electromagnetic Interference Shielding

1st GrInShield Summer School



CERTIFICATE OF ATTENDANCE

THIS IS TO CERTIFY THAT

Sredojević Dušan, Participant

has participated in

The 1st GrInShield Summer School
CHEMISTRY OF CARBON-BASED NANOMATERIALS
June 26-30, 2023 Divčibare, Serbia


Dr. Svetlana Jovanović Vučetić,
GrInShield coordinator

email: grinshieldtwinning@gmail.com



 GrInShield has received funding from the European Union's Horizon Europe Coordination and Support Actions under grant agreement No 101079951

Саопштење на међународном скупу штампаном у целини:

Резултат 1 из категорије М33



PROCEEDINGS OF THE
28th International Symposium
on Analytical and Environmental Problems

Szeged, Hungary
November 14-15, 2022



THE MECHANISM BEHIND Pd(II) AND CARBOFURAN-INDUCED CHANGE OF GRAPHENE QUANTUM DOTS PHOTOLUMINESCENCE INTENSITY

Sladjana Dorontić¹, Dušan Sredojević¹, Danica Bajuk-Bogdanović², Svetlana Jovanović¹

¹*Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade P.O. Box 522, 11001 Belgrade, Serbia*

²*Faculty of Physical Chemistry, University of Belgrade, P.O. Box 47, 11158 Belgrade, Serbia
e-mail: sladjana.dorontic@vin.bg.ac.rs*

Abstract

The increasing presence of pesticides and heavy metals in the environment and their negative impact on human, animal, and plant health, demand green, low-cost, and simple methods for their monitoring. Due to photoluminescence (PL) in the visible part of the spectrum, biocompatibility, and ecological acceptability, graphene quantum dots (GQDs) are at the center of attention in the field of optical sensing. GQDs show great potential as PL sensors for Pd(II) ions and insecticide carbofuran. In this work, FTIR spectroscopy and Density Functional Theory (DFT) calculation were used to resolve the mechanism of PL change in the presence of these analytes.

Introduction

Among the many hazardous compounds present in the environment, heavy metals and pesticides are the most common pollutants. Due to high toxicity, they have harmful effects on human health, ecosystems, food, as well as drinkable water [1]. For a long time, the insecticide carbofuran (CF) was the most frequently used in crop protection against insects to improve their yield and quality [2]. The United States Environment Protection Agency (US EPA) has completely banned its application in any form [3]. Apart from agriculture, the pharmaceutical, and metal industry also contribute to global pollution. Palladium was found as an excellent catalytic agent in organic chemistry and drug production. Residues of this element in final products reach the environment causing damage [1].

One of the latest discovered members of carbon nanomaterials, graphene quantum dots (GQDs) found an important place in many scientific fields such as energy storage and conversion [4], bioimaging, photodynamic therapy, as well as antioxidative agents [5]. They are 0D nanoparticles less than 100 nm, with an sp² graphene core where different oxygen-contained moieties are bounded [2]. Their remarkable properties such as water solubility, biocompatibility, non-toxicity, PL in the visible part of the spectrum, as well as photostability make them a promising candidate for application in the optical detection of pesticides and heavy metals [1].

In this paper, GQDs were produced in the eco-friendly single-step top-down electrochemical oxidation of graphite electrodes. To improve their optical properties, they were gamma-irradiated at a dose of 200 kGy in the presence of 1 g ethylenediamine (EDA). In earlier research, these dots were tested as PL probes for the detection of Pd(II) and CF [1, 2]. Now, we resolved the mechanism of the Pd(II) and CF-induced fluorescence change of GQDs using infrared spectroscopy with Fourier transformation (FTIR) and Density Functional Theory (DFT) calculations.

Позивна писма за постдокторске студије на Тексас А&М Универзитету у Катару

RESEARCH

جامعة تكساس إيه اند أم في قطر



February 4, 2018

TO: Dr. Dusan Sredojevic
dusanmcrae@yahoo.com

THROUGH: Dr. Hassan S. Bazzi
Associate Dean for Research
Office of Research
Texas A&M University at Qatar

Dr. Edward Brothers
Associate Professor and Program Chair
Science Program
Texas A&M University at Qatar

FROM: Dr. Milivoj Belic
Professor
Science Program
Texas A&M University at Qatar

SUBJECT: Temporary Employment Offer

By this letter I am offering you the position of Temporary Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting February 11, 2018 through May 15, 2018. Offer dates are subject to adjustment at the discretion of TAMUQ based on approval of Qatar Foundation sponsorship and your arrival date in Doha, Qatar. This appointment and any potential extension is contingent upon the successful completion of required background checks, export control clearance, the approval of the Office of Vice President for Research (VPR), Qatar Criminal Evidence and Information Department (CID) to work at the Qatar Foundation, all immigration requirements to work in Qatar, satisfactory job performance on your part, and upon the availability of sufficient funding. Should this not be the case, this offer letter will be considered null and void.

This offer is for your work in Qatar. You will work under the supervision of Dr. Milivoj Belic. Your duties include working on the problems defined by the NPRP project on intercalated graphene, to be used as a single atom catalyst in CO₂ capture and assisting in the supervision of any graduate research assistant or undergraduate students who are working on research related to the project. Other related duties may also be assigned.

You agree to perform all the duties of your position and such other duties and projects as may be assigned to you. You agree to devote your entire productive time, ability and attention to the business of the University and shall perform all duties in a professional, ethical and businesslike manner. You agree to abide by the applicable laws and regulations of the State of Qatar and respect the cultural, religious, and social customs of Qatar. As a condition of employment, you shall abide by all Texas A&M University System Policies and Regulations and all University Rules.



Texas A&M Engineering Building, Education City
PO Box 23874, Doha, Qatar
tel. +974.4423.0013 fax +974.4423.0011
www.qatar.tamu.edu

August 28, 2018

MEMORANDUM

TO: Dr. Dusan Sredojevic
dusanmcrac@yahoo.com

THROUGH: Dr. Hassan S. Bazzi
Associate Dean for Research
Office of Research
Texas A&M University at Qatar

Dr. Ed Brothers
Associate Professor and Program Chair
Science Program
Texas A&M University at Qatar

FROM: Dr. Milivoj Belic
Professor
Science Program
Texas A&M University at Qatar



SUBJECT: Offer of Employment

By this letter I am offering you the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting November 1, 2018 through April 30, 2019, at 100% effort. Offer start date is subject to adjustment at the discretion of TAMUQ based on approval of Qatar Foundation sponsorship and your arrival date in Doha, Qatar. This appointment and any potential extension is contingent upon the successful completion of required background checks, export control clearance, the approval of the Office of Vice President for Research (VPR), Qatar Criminal Evidence and Information Department (CID) to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development, satisfactory job performance on your part, and upon the availability of sufficient funding. Should this not be the case, this offer letter will be considered null and void.

February 10, 2019

MEMORANDUM

TO: Dr. Dusan Sredojevic
Texas A&M University at Qatar
Engineering Building, Education City
Doha, Qatar

THROUGH: Dr. Hassan S. Bazzi
Associate Dean for Research
Office of Research
Texas A&M University at Qatar

FROM: Dr. Milivoj Belic
Professor
Science Program
Texas A&M University at Qatar




SUBJECT: Offer of Employment Extension

By this letter I am offering you to extend the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting May 1, 2019 through June 30, 2019, at 100% effort. This appointment and any potential extension is contingent upon the successful completion of required background checks, export control clearance, the approval of the Office of Vice President for Research (VPR), Qatar Criminal Evidence and Information Department (CID) to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development, satisfactory job performance on your part, and upon the availability of sufficient funding. Should this not be the case, this offer letter will be considered null and void.

December 9, 2021

MEMORANDUM

TO: Dusan Sredojevic
Texas A&M University at Qatar
Engineering Building, Education City
Doha, Qatar

THROUGH: Dr. Hassan S. Bazzi
Senior Associate Dean for Research and Advancement
Office of Research
Texas A&M University at Qatar

FROM: Dr. Edward Brothers
Professor
Science Program
Texas A&M University at Qatar



SUBJECT: Offer of Employment Extension

By this letter I am offering you to extend the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting January 01, 2022 through March 31, 2022, contingent upon the successful completion of required Criminal background check, verification of degree(s)/licensure, export control clearance, continued satisfactory job performance on your part, and upon the availability of sufficient funding. This appointment and any potential extension are contingent upon obtaining the Qatar Criminal Evidence and Information Department (CEID) approval to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development. Should this not be the case, this offer letter will be considered null and void.

March 28, 2021

MEMORANDUM

TO: Dusan Sredojevic
dusredo@vin.bg.ac.rs

THROUGH: Dr. Hassan S. Bazzi
Associate Dean for Research and Advancement
Office of Research
Texas A&M University at Qatar

Dr. Bernhard Lamel
Professor and Program Chair
Science Program
Texas A&M University at Qatar

FROM: Dr. Milivoj Belic
Professor
Science Program
Texas A&M University at Qatar

SUBJECT: Offer of Employment

By this letter I am offering you the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting May 15, 2021 through December 31, 2021, contingent upon the successful completion of required Criminal background check, verification of degree(s)/licensure, export control clearance, continued satisfactory job performance on your part, and upon the availability of sufficient funding. This appointment and any potential extension are contingent upon obtaining the Qatar Criminal Evidence and Information Department (CEID) approval to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development. Should this not be the case, this offer letter will be considered null and void.

March 23, 2022

MEMORANDUM

TO: Dusan Sredojevic
Texas A&M University at Qatar
Engineering Building, Education City
Doha, Qatar

THROUGH: Dr. Hassan S. Bazzi
Senior Associate Dean for Research and Advancement
Office of Research
Texas A&M University at Qatar

FROM: Dr. Edward Brothers
Professor
Science Program
Texas A&M University at Qatar

SUBJECT: Offer of Employment Extension

By this letter I am offering you to extend the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting April 1, 2022 through May 31, 2022, contingent upon the successful completion of required Criminal background check, verification of degree(s)/licensure, export control clearance, continued satisfactory job performance on your part, and upon the availability of sufficient funding. This appointment and any potential extension are contingent upon obtaining the Qatar Criminal Evidence and Information Department (CEID) approval to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development. Should this not be the case, this offer letter will be considered null and void.

May 9, 2022

MEMORANDUM

TO: Dusan Sredojevic
Texas A&M University at Qatar
Engineering Building, Education City
Doha, Qatar

THROUGH: Dr. Hassan S. Bazzi
Senior Associate Dean for Research and Advancement
Office of Research
Texas A&M University at Qatar

FROM: Dr. Milivoj Belic
Professor
Science Program
Texas A&M University at Qatar




SUBJECT: Offer of Employment Extension

By this letter I am offering you to extend the position of Postdoctoral Research Associate in the Science Program at Texas A&M University at Qatar (TAMUQ) starting June 1, 2022 through August 31, 2022, contingent upon the successful completion of required Criminal background check, verification of degree(s)/licensure, export control clearance, continued satisfactory job performance on your part, and upon the availability of sufficient funding. This appointment and any potential extension are contingent upon obtaining the Qatar Criminal Evidence and Information Department (CEID) approval to work at the Qatar Foundation, all immigration requirements to work in Qatar, and the approval of sponsorship by Qatar Foundation for Education, Science and Community Development. Should this not be the case, this offer letter will be considered null and void.

Хетероцитати свих радова (извор SCOPUS)

www.scopus.com/cto2/main.uri?ctoId=CTODS_1681129164&authors=11940244000&origin=AuthorNamesList

- укупан број цитата **1035** (h индекс 19)
- укупан број хетероцитата **931** (h индекс 18)

Brought to you by KoBSON - Konzorcijum biblioteka Srbije za objedinjenu nabavku



Scopus



Citation overview

Self citations of selected authors are excluded.



[Back to author results](#)

[Export](#)

[Print](#)

This is an overview of citations for this author.

Author h-index : 18 [View h-graph](#)

48 Cited Documents from "Sredojević, Dušan N." [+ Add to list](#)

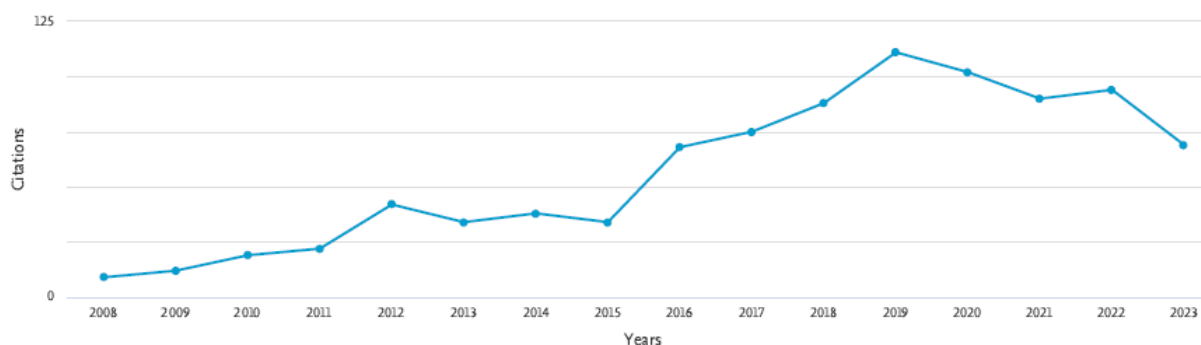
Date range: 2008 to 2023

☐ Exclude self citations of selected author

☐ Exclude self citations of all authors

☐ Exclude citations from books

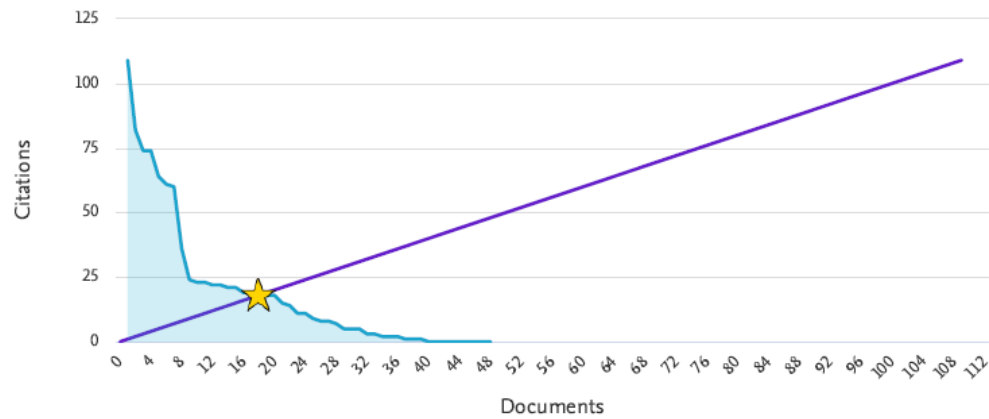
[Update](#)



This author's *h*-index

18

The *h*-index is based upon the number of documents and number of citations.



Documents		Citations	<2008	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Subtotal	>2023	Total	
		Total	14	9	12	19	22	41	34	38	34	68	75	88	111	103	90	96	77	917	0	931	
<input type="checkbox"/>	1 Effect of surface curvature on the hydrogen storage capacity...	2023																		0		0	
<input type="checkbox"/>	2 Photon-driven bactericidal performance of surface-modified T...	2023																	2	2		2	
<input type="checkbox"/>	3 Photocatalytic ability of visible-light-responsive hybrid Zr...	2023																		0		0	
<input type="checkbox"/>	4 Organic memory devices and synaptic simulation based on inda...	2022																		0		0	
<input type="checkbox"/>	5 Molecular strategy towards ROMP-derived hyperbranched poly(o...	2022																		0		0	
<input type="checkbox"/>	6 Toxicity of Silver Nanoparticles Supported by Surface-Modifi...	2022																		0		0	
<input type="checkbox"/>	7 Interfacial charge transfer complex formation between silver...	2022																	1	1		1	
<input type="checkbox"/>	8 Single-Atom Catalysts Supported by Graphene and Hexagonal Bo...	2022																		0		0	
<input type="checkbox"/>	9 Interfacial charge transfer complex between TiO ₂ ...	2022																	1	1		1	
<input type="checkbox"/>	10 Influence of glucose, sucrose, and dextran coatings on the s...	2022																1	4	5		5	
<input type="checkbox"/>	11 Surface-modified ZrO2 nanoparticles with caffeic acid: Chara...	2021																3	2	5		5	
<input type="checkbox"/>	12 Tuning properties of cerium dioxide nanoparticles by surface...	2020															1		2	3		3	
<input type="checkbox"/>	13 Hydrogen Evolution Reaction over Single-Atom Catalysts Based...	2020															1	4	8	8	21	21	
<input type="checkbox"/>	14 Computational investigation of cobalt and copper bis (oxothi...	2020																		0		0	
<input type="checkbox"/>	15 Interfacial Charge Transfer Transitions in Colloidal TiO	2019																4	2	1	2	9	9
<input type="checkbox"/>	16 Indacenodithiazole-Ladder-Type Bridged Di(thiophene)-Difluor...	2019																3	8	7	3	21	21
<input type="checkbox"/>	17 Electronic structure of surface complexes between CeO ₂ <...	2019																2			2	2	
<input type="checkbox"/>	18 Visible-light-responsive surface-modified TiO ₂ po...	2019																8	2	4	1	15	15
<input type="checkbox"/>	19 Efficiency of the interfacial charge transfer complex betwee...	2019																	1	1	2	2	
<input type="checkbox"/>	20 Visible light absorption of surface-modified Al ₂ O...	2019														3	4	2		3	12	12	

Documents		Citations	<2008	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Subtotal	>2023	Total
		Total	14	9	12	19	22	41	34	38	34	68	75	88	111	103	90	96	77	917	0	931
<input type="checkbox"/>	21 Reversible Olefin Addition to Extended Lattices of a Nickel-...	2018																1		1		1
<input type="checkbox"/>	22 Corrigendum to: Stacking of Benzene with Metal Chelates: Cal...	2018																		0		0
<input type="checkbox"/>	23 Immobilization of dextranucrase on functionalized TiO ₂ ...	2018														5	3	4	1	5	18	18
<input type="checkbox"/>	24 Acute toxicity study in mice of orally administrated TiO	2018														5	3	3	6	1	18	18
<input type="checkbox"/>	25 Formic Acid Synthesis by CO ₂ Hydrogenation over S...	2018													2	1	3	7	6	5	24	24
<input type="checkbox"/>	26 Visible light absorption of TiO ₂ nanoparticles su...	2018																		0		0
<input type="checkbox"/>	27 Charge-transfer complex formation between TiO ₂ na...	2017														3	2		2	1	8	8
<input type="checkbox"/>	28 Surface-modified TiO ₂ powders with phenol derivat...	2017													1	2	5	5	4	4	21	21
<input type="checkbox"/>	29 Hybrid visible-light responsive Al ₂ O ₃ ...	2017														4	3	1			8	8
<input type="checkbox"/>	30 Surface-modified TiO ₂ nanoparticles with ascorbic...	2017											1	3	4	3	3	3	1	18	18	18
<input type="checkbox"/>	31 Bithiazole: An Intriguing Electron-Deficient Building for PL...	2017											1	6	5		1	6	5	24	24	24
<input type="checkbox"/>	32 Synthesis of low band gap polymers based on pyrrolo[3,2-d ₄ ...	2017													7	6	2	4	3	1	23	23
<input type="checkbox"/>	33 Nickel Bis(diselenolene) as a Catalyst for Olefin Purificati...	2016											2	2		1		2		7	7	7
<input type="checkbox"/>	34 Mechanism of Ethylene Addition to Nickel Bis(oxothiolene) an...	2016											1	1		1				3	3	3
<input type="checkbox"/>	35 ZIF-67 Framework: A Promising New Candidate for Propylene/Pr...	2016										2	11	16	21	16	16	17	11	110	110	110
<input type="checkbox"/>	36 The stacking interactions of bipyridine complexes: the influ...	2016											2			2	1			5	5	5
<input type="checkbox"/>	37 Heteroepitaxially-grown zeolitic imidazolate framework membr...	2015																		0		0
<input type="checkbox"/>	38 Stacking of benzene with metal chelates: Calculated CCSD(T)/...	2014								1	5	5	4	4	3	2				24	24	24
<input type="checkbox"/>	39 Stacking interactions of Ni(acac) chelates with benzene: Cal...	2013								3	2	2	1	1	1		1			11	11	11
<input type="checkbox"/>	40 Room temperature tandem hydroamination and hydrosilation/pro...	2012							2	3	3	8	4	3	2	3	4	2	2	36	36	36

Display: 20 results per page < 1 2 3 ^ Top of page

Documents		Citations	<2008	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Subtotal	>2023	Total
		Total	14	9	12	19	22	41	34	38	34	68	75	88	111	103	90	96	77	917	0	931
<input type="checkbox"/>	41 Parallel stacking interactions in square-planar transition-m...	2012							4	2	1	2	2	2	5		1			19		19
<input type="checkbox"/>	42 What are the preferred horizontal displacements in parallel ...	2011						1		4	3	7	6	8	9	14	5	6	3	66		66
<input type="checkbox"/>	43 Evidence of chelate-chelate stacking interactions in crystal...	2010		1		2	3	11	7	8	5	9	10	8	8	4	4	1	2	82		83
<input type="checkbox"/>	44 Ambipolar organic transistors and near-infrared phototransis...	2010					5	3	4	1	4	5	6	9	4	6	6	6	1	60		60
<input type="checkbox"/>	45 The stereospecific ligand exchange at a pseudo-benzylic T-4 ...	2009				1	1	1	1	2	2	2	1	1				2	1	15		15
<input type="checkbox"/>	46 Stacking vs. CH- π interactions between chelate and aryl ring...	2007			3	3	4	6	7	3	3	2	9	4	2	5	3	2	2	60		60
<input type="checkbox"/>	47 Influence of metal and ligand types on stacking interactions...	2007		1		1	2	1	3		1		4	4	1	2	1		1	21		22
<input type="checkbox"/>	48 Electron delocalization mediates the metal-dependent capacit...	2006		7	3	6	7	2	7	8	3	4	6	6	4	6	2	1	1	67		74
<input type="checkbox"/>	49 Stacking interactions between chelate and phenyl rings in sq...	2006		5	3	2	3	4	8	5	7	3	7	9	7	5	3	2		69		74

Display: 20 results per page < 1 2 3 ^ Top of page

Хетероцитати радова објављених ПОСЛЕ избора у звање ВИШИ НАУЧНИ САРАДНИК
(извор SCOPUS)

1. M. Shahriari-Khalaji, F. Zabihi, A. Bahi, **D. Sredojević**, J. M. Nedeljković, D. K. Macharia, M. Ciprian, S. Yang, F. Kob, **Photon-driven bactericidal performance of surface-modified TiO₂ nanofibers** *J. Mater. Chem. C*, 2023, 11, 5796–5805.

Цитиран у:

1. Shahriari-Khalaji, M., Sattar, M., Cao, R., Zhu, M. Angiogenesis, hemocompatibility and bactericidal effect of bioactive natural polymer-based bilayer adhesive skin substitute for infected burned wound healing (2023) *Bioactive Materials*, 29, pp. 177-195. [10.1016/j.bioactmat.2023.07.008](https://doi.org/10.1016/j.bioactmat.2023.07.008)
2. Li, X., Li, P., Li, Y., Liu, H., Yang, Z., Chen, Y., Liao, X. Photocatalytic production of H₂O₂ and its in situ sterilization over Zn-based ZIFs materials (2023) *Journal of Environmental Chemical Engineering*, 11 (5), art. no. 110594. [10.1016/j.jece.2023.110594](https://doi.org/10.1016/j.jece.2023.110594)
2. **D. Sredojević**, S. Stavrić, V. Lazić, S. P. Ahrenkiel, J. M. Nedeljković, **Interfacial charge transfer complex formation between silver nanoparticles and aromatic amino acids** *Phys. Chem. Chem. Phys.* 2022, 24, 16493-16500.

Цитиран у:

1. Wojtaszek, K., Tokarski, T., Kutyla, D., Kołczyk-Siedlecka, K., Żabiński, P., Csapó, E., Socha, R.P., Escribà-Gelonch, M., Hessel, V., Wojnicki, M. The Mechanism of Phase Transfer Synthesis of Silver Nanoparticles Using a Fatty Amine as Extractant/Phase Transfer Agent (2023) *Metals*, 13 (5), art. no. 882, . [10.3390/met13050882](https://doi.org/10.3390/met13050882)
3. Z. Barbierikova, M. Simunkova, V. Brezova, **D. Sredojević**, V. Lazić, D. Loncarević, J. M. Nedeljković, **Interfacial charge transfer complex between TiO₂ and non-aromatic ligand squaric acid**, *Optical Materials*, 2022, 123, 111918.

Цитиран у:

1. Maldaye, E.M., Subramaniam, S.K., Barakat, N. Fabrication of Visible Light Sensitive Electrospun TiO₂ Nanofibers Using Squaric Acid for Photocatalytic Application (2023) *Journal of Nanomaterials*, 2023, art. no. 4213684, . [10.1155/2023/4213684](https://doi.org/10.1155/2023/4213684)
4. Vukoje, V. Lazić, **D. Sredojević**, M. M. Fernandes, S. Lanceros-Mendez, S. P. Ahrenkiel, J. M. Nedeljković, **Influence of glucose, sucrose, and dextran coatings on the stability and toxicity of silver nanoparticles** *International Journal of Biological Macromolecules* 2022, 194, 461–469.

Цитиран у:

1. Szczyglewska, P., Feliczak-Guzik, A., Nowak, I. Nanotechnology–General Aspects: A Chemical Reduction Approach to the Synthesis of Nanoparticles (2023) *Molecules*, 28 (13), art. no. 4932, . [10.3390/molecules28134932](https://doi.org/10.3390/molecules28134932)
2. Eze, F.N., Jayeoye, T.J., Eze, R.C. Construction, characterization, and application of locust bean gum/Phyllanthus reticulatus anthocyanin - based plasmonic silver nanocomposite for sensitive detection of ferrous ions (2023) *Environmental Research*, 228, art. no. 115864, . [10.1016/j.envres.2023.115864](https://doi.org/10.1016/j.envres.2023.115864)

3. Yang, T., Adhikari, L., Paulose, T., Bleher, R., Duncan, T.V. Titanium dioxide and table sugar enhance the leaching of silver out of nanosilver packaging (2023) *Environmental Science: Nano*, 10 (6), pp. 1689-1703. [10.1039/d3en00098b](https://doi.org/10.1039/d3en00098b)
4. Ferreira, A.M., Vikulina, A., Loughlin, M., Volodkin, D. How similar is the antibacterial activity of silver nanoparticles coated with different capping agents? (2023) *RSC Advances*, 13 (16), pp. 10542-10555. [10.1039/d3ra00917c](https://doi.org/10.1039/d3ra00917c)
5. Sethuram, L., Thomas, J., Mukherjee, A., Chandrasekaran, N. A review on contemporary nanomaterial-based therapeutics for the treatment of diabetic foot ulcers (DFUs) with special reference to the Indian scenario (2022) *Nanoscale Advances*, . [10.1039/d1na00859e](https://doi.org/10.1039/d1na00859e)
5. V. Lazić, A. Pirković, **D. Sredojević**, J. Marković, J Papan, S. Phillip Ahrenkiel, I. Janković-Castvan, D. Dekanski, M. Jovanović-Krivokuća, J. M. Nedeljković, **Surface-modified ZrO₂ nanoparticles with caffeic acid: Characterization and in vitro evaluation of biosafety for placental cells** *Chemico-Biological Interactions*, 2021, 347, 109618.

Цитиран у:

1. Lin, L., Peng, S., Chen, X., Li, C., Cui, H. Silica nanoparticles loaded with caffeic acid to optimize the performance of cassava starch/sodium carboxymethyl cellulose film for meat packaging (2023) *International Journal of Biological Macromolecules*, 241, art. no. 124591. [10.1016/j.ijbiomac.2023.124591](https://doi.org/10.1016/j.ijbiomac.2023.124591)
2. Ledade, P.V., Lambat, T.L., Gunjate, J.K., Mahmood, S.H., Das, S., Abdala, A.A., Chaudhary, R.G., Banerjee, S. Synthesis of Oxygen and Nitrogen Containing Heterocycles using Zirconium Dioxide/Mixed Oxide Nanoparticles as Reusable Green Catalysts: A Comprehensive Update (2023) *Current Organic Chemistry*, 27 (3), pp. 223-241. [10.2174/1385272827666230106112146](https://doi.org/10.2174/1385272827666230106112146)
3. Nacka-Aleksić, M., Pirković, A., Vilotić, A., Bojić-Trbojević, Ž., Jovanović Krivokuća, M., Giampieri, F., Battino, M., Dekanski, D. The Role of Dietary Polyphenols in Pregnancy and Pregnancy-Related Disorders (2022) *Nutrients*, 14 (24), art. no. 5246. [10.3390/nu14245246](https://doi.org/10.3390/nu14245246)
4. Elsayed, A., El-Shamy, G.M., Attia, A.A. Biosynthesis, Characterization, and Assessment of Zirconia Nanoparticles by *Fusarium oxysporum* species as Potential Novel Antimicrobial and Cytotoxic Agents (2022) *Egyptian Journal of Botany*, 62 (2), pp. 507-522. [10.21608/ejbo.2022.114070.1869](https://doi.org/10.21608/ejbo.2022.114070.1869)
5. Kostić, S., Vilotić, A., Pirković, A., Dekanski, D., Borozan, S., Nacka-Aleksić, M., Vrzić-Petronijević, S., Jovanović Krivokuća, M. Caffeic acid protects human trophoblast HTR-8/SVneo cells from H₂O₂-induced oxidative stress and genotoxicity (2022) *Food and Chemical Toxicology*, 163, art. no. 112993, . [10.1016/j.fct.2022.112993](https://doi.org/10.1016/j.fct.2022.112993)
6. V. Lazić, Lj. S. Živković, **D. Sredojević**, M. M. Fernandes, S. Lanceros-Méndez, S. Phillip Ahrenkiel, J. M. Nedeljković, **Tuning properties of cerium dioxide nanoparticles by surface modification with catecholate-type of ligands**, *Langmuir*, 2020, 36(33), 9738–9746.

Цитиран у:

1. Pota, G., Silvestri, B., Vitiello, G., Gallucci, N., Di Girolamo, R., Scialla, S., Raucci, M.G., Ambrosio, L., Di Napoli, M., Zanfardino, A., Varcamonti, M., Pezzella, A., Luciani, G. Towards nanostructured red-ox active bio-interfaces: Bioinspired antibacterial hybrid melanin-CeO₂ nanoparticles for radical homeostasis (2023) *Biomaterials Advances*, 153, art. no. 213558. [10.1016/j.bioadv.2023.213558](https://doi.org/10.1016/j.bioadv.2023.213558)
2. Filippova, A.D., Sozarukova, M.M., Baranchikov, A.E., Kottsov, S.Y., Cherednichenko, K.A., Ivanov, V.K. Peroxidase-like Activity of CeO₂ Nanozymes: Particle Size and Chemical Environment Matter (2023) *Molecules*, 28 (9), art. no. 3811. [10.3390/molecules28093811](https://doi.org/10.3390/molecules28093811)

3. Kosmulski, M. The pH dependent surface charging and points of zero charge. IX. Update (2021) *Advances in Colloid and Interface Science*, 296, art. no. 102519. [10.1016/j.cis.2021.102519](https://doi.org/10.1016/j.cis.2021.102519)
7. **D. N. Sredojević**, M. R. Belić, Z. Šljivančanin, **Hydrogen Evolution Reaction Over Single-Atom Catalysts Based on Metal Adatoms at Defected Graphene and *h*-BN**. *J. Phys. Chem. C* 2020, 124(31), 16860-16867.

Цитиран у:

1. Wazzan, N., Jha, P.K. Single atom catalysts supported on cyclo[18]carbon and its allotropes (B₉N₉ and Al₉N₉) for the hydrogen evolution and oxygen evolution reactions (2023) *Surfaces and Interfaces*, 42, art. no. 103319. [10.1016/j.surfin.2023.103319](https://doi.org/10.1016/j.surfin.2023.103319)
2. Allangawi, A., Shanaah, H.H., Mahmood, T., Ayub, K. Investigation of the cyclo[12]carbon nanoring and respective analogues (Al₆N₆ and B₆N₆) as support for the single atom catalysis of the hydrogen evolution reaction (2023) *Materials Science in Semiconductor Processing*, 162, art. no. 107544. [10.1016/j.mssp.2023.107544](https://doi.org/10.1016/j.mssp.2023.107544)
3. Yan, L., Chen, R., Wei, H., Zhou, Y., Hong, B., Yang, Y., Zheng, Y., Huang, F. Reaction gas treatment promoting activity and stability of PdO for lean methane oxidation over phosphorus modified Pd/Al₂O₃ catalysts (2023) *International Journal of Hydrogen Energy*, 48 (61), pp. 23516-23529. [10.1016/j.ijhydene.2023.03.116](https://doi.org/10.1016/j.ijhydene.2023.03.116)
4. Chodvadiya, D., Chakraborty, B., Jha, P.K. Transition metal atoms anchored 2D holey graphyne for hydrogen evolution reaction: Acumen from DFT simulation (2023) *International Journal of Hydrogen Energy*, 48 (48), pp. 18326-18337. [10.1016/j.ijhydene.2023.01.246](https://doi.org/10.1016/j.ijhydene.2023.01.246)
5. Allangawi, A., Gilani, M.A., Ayub, K., Mahmood, T. First row transition metal doped B₁₂P₁₂ and Al₁₂P₁₂ nanocages as excellent single atom catalysts for the hydrogen evolution reaction (2023) *International Journal of Hydrogen Energy*, 48 (44), pp. 16663-16677. [10.1016/j.ijhydene.2023.01.154](https://doi.org/10.1016/j.ijhydene.2023.01.154)
6. Rostami, S., Ghaffarkhah, A., Isari, A.A., Hashemi, S.A., Arjmand, M. 2D nanomaterial aerogels integrated with phase change materials: a comprehensive review (2023) *Materials Advances*, 4 (13), pp. 2698-2729. [10.1039/d3ma00049d](https://doi.org/10.1039/d3ma00049d)
7. Chodvadiya, D., Dalsaniya, M.H., Som, N.N., Chakraborty, B., Kurzydłowski, D., Kurzydłowski, K.J., Jha, P.K. Defects and doping engineered two-dimensional o-B₂N₂ for hydrogen evolution reaction catalyst: Insights from DFT simulation (2023) *International Journal of Hydrogen Energy*, 48 (13), pp. 5138-5151. [10.1016/j.ijhydene.2022.10.211](https://doi.org/10.1016/j.ijhydene.2022.10.211)
8. Allangawi, A., Mahmood, T., Ayub, K., Gilani, M.A. Anchoring the late first row transition metals with B₁₂P₁₂ nanocage to act as single atom catalysts toward oxygen evolution reaction (OER) (2023) *Materials Science in Semiconductor Processing*, 153, art. no. 107164. [10.1016/j.mssp.2022.107164](https://doi.org/10.1016/j.mssp.2022.107164)
9. Chodvadiya, D., Jha, P.K., Chakraborty, B. Theoretical inspection of Ni/ α -SiX (X=N, P, As, Sb, Bi) Single-Atom catalyst: Ultra-high performance for hydrogen evolution reaction (2022) *International Journal of Hydrogen Energy*, 47 (99), pp. 41733-41747. [10.1016/j.ijhydene.2022.02.159](https://doi.org/10.1016/j.ijhydene.2022.02.159)
10. Kong, W., Xu, J., Tong, Y., Ding, Y., Wang, J., Li, B., Wei, X., Zhao, L. Construction of dual active sites for efficient alkaline hydrogen evolution: single-metal-atoms supported on BC₂N monolayers (2022) *Physical Chemistry Chemical Physics*, 24 (47), pp. 29141-29150. [10.1039/d2cp04242h](https://doi.org/10.1039/d2cp04242h)
11. Jiang, Z., Song, S., Zheng, X., Liang, X., Li, Z., Gu, H., Li, Z., Wang, Y., Liu, S., Chen, W., Wang, D., Li, Y. Lattice Strain and Schottky Junction Dual Regulation Boosts Ultrafine Ruthenium Nanoparticles Anchored on a N-Modified Carbon Catalyst for H₂ Production (2022) *Journal of the American Chemical Society*, 144 (42), pp. 19619-19626. [10.1021/jacs.2c09613](https://doi.org/10.1021/jacs.2c09613)

12. Liu, Z., He, T., Jiang, Q., Wang, W., Tang, J. A review of heteroatomic doped two-dimensional materials as electrocatalysts for hydrogen evolution reaction (2022) *International Journal of Hydrogen Energy*, 47 (69), pp. 29698-29729. [10.1016/j.ijhydene.2022.06.306](https://doi.org/10.1016/j.ijhydene.2022.06.306)
 13. Liu, X., Li, C., Xu, F., Fan, G., Xu, H. Density functional theory study of nitrogen-doped black phosphorene doped with monatomic transition metals as high performance electrocatalysts for N₂ reduction reaction (2022) *Nanotechnology*, 33 (24), art. no. 245401. [10.1088/1361-6528/ac5929](https://doi.org/10.1088/1361-6528/ac5929)
 14. Aggarwal, P., Sarkar, D., Awasthi, K., Menezes, P.W. Functional role of single-atom catalysts in electrocatalytic hydrogen evolution: Current developments and future challenges (2022) *Coordination Chemistry Reviews*, 452, art. no. 214289. [10.1016/j.ccr.2021.214289](https://doi.org/10.1016/j.ccr.2021.214289)
 15. Rafiq, M., Hu, X., Ye, Z., Qayum, A., Xia, H., Hu, L., Lu, F., Chu, P.K. Recent advances in structural engineering of 2D hexagonal boron nitride electrocatalysts (2022) *Nano Energy*, 91, art. no. 106661. [10.1016/j.nanoen.2021.106661](https://doi.org/10.1016/j.nanoen.2021.106661)
 16. Di Liberto, G., Cipriano, L.A., Pacchioni, G. Role of Dihydride and Dihydrogen Complexes in Hydrogen Evolution Reaction on Single-Atom Catalysts (2021) *Journal of the American Chemical Society*, 143 (48), pp. 20431-20441. [10.1021/jacs.1c10470](https://doi.org/10.1021/jacs.1c10470)
 17. Chen, Y., Zhang, X., Qin, J., Liu, R. High-throughput screening of single metal atom anchored on N-doped boron phosphide for N₂ reduction (2021) *Nanoscale*, 13 (31), pp. 13437-13450. [10.1039/d1nr02883a](https://doi.org/10.1039/d1nr02883a)
 18. Šoškić, B.N., Stavrić, S., Šljivančanin, Ž. Ab-initio and Monte Carlo study of Fe-based two-dimensional magnets at borophene supported by Ag(111) surface (2021) *Physical Review Materials*, 5 (7), art. no. 074001. [10.1103/PhysRevMaterials.5.074001](https://doi.org/10.1103/PhysRevMaterials.5.074001)
 19. Sarmah, H.J., Mohanta, D. Revisiting principles, practices and scope of technologically relevant 2D materials (2021) *Journal of Materials Research*, 36 (10), pp. 1961-1979. [10.1557/s43578-021-00211-8](https://doi.org/10.1557/s43578-021-00211-8)
 20. Hu, H., Choi, J.-H. Hydrogen evolution reaction at the interfaces of two-dimensional lateral heterostructures: A first-principles study (2020) *RSC Advances*, 10 (63), pp. 38484-38489. [10.1039/d0ra08138h](https://doi.org/10.1039/d0ra08138h)
8. D. Božanić, G. Garcia, L. Nahon, **D. N. Sredojević**, V. Lazić, I. Vukoje, P. S. Ahrenkiel, V. Đoković, Z. Šljivančanin, J. Nedeljković, **Interfacial Charge-Transfer Transitions in Colloidal TiO₂ Nanoparticles Functionalized with Salicylic Acid and 5-Aminosalicylic Acid: A Comparative Photoelectron Spectroscopy and DFT Study**, *J. Phys. Chem. C*. 2019, 123, 29057-29066.

Цитиран у:

1. Radić, G., Perović, K., Sharifi, T., Kušić, H., Kovačić, M., Kraljić Roković, M. Electrochemical Characterisation of the Photoanode Containing TiO₂ and SnS₂ in the Presence of Various Pharmaceuticals (2023) *Catalysts*, 13 (5), art. no. 909. [10.3390/catal13050909](https://doi.org/10.3390/catal13050909)
2. Krishnan, S., Shriwastav, A. Chlorophyll sensitized and salicylic acid functionalized TiO₂ nanoparticles as a stable and efficient catalyst for the photocatalytic degradation of ciprofloxacin with visible light (2023) *Environmental Research*, 216, art. no. 114568. [10.1016/j.envres.2022.114568](https://doi.org/10.1016/j.envres.2022.114568)
3. Danilović, D., Božanić, D.K., Garcia, G.A., Nahon, L., Stamenović, U., Vodnik, V.V., Djoković, V. Velocity map imaging VUV angle-resolved photoelectron spectroscopy of isolated silver sulfide nanoparticles (2022) *Optical and Quantum Electronics*, 54 (9), art. no. 604. [10.1007/s11082-022-03972-6](https://doi.org/10.1007/s11082-022-03972-6)
4. Hadidi, R., Božanić, D.K., Ganjitar, H., Garcia, G.A., Powis, I., Nahon, L. Conformer-dependent vacuum ultraviolet photodynamics and chiral asymmetries in pure enantiomers of gas phase proline (2021) *Communications Chemistry*, 4 (1), art. no. 72. [10.1038/s42004-021-00508-z](https://doi.org/10.1038/s42004-021-00508-z)
5. Kinayyigit, S. CHAPTER 4: Role of Phenols and Phenol Derivatives in the Synthesis of Nanoparticles (2021) *RSC Nanoscience and Nanotechnology*, 2021-January (50), pp. 73-96. [10.1039/9781839163623-00073](https://doi.org/10.1039/9781839163623-00073)

6. Ibrahim, H.H., Mohamed, A.A., Ibrahim, I.A.M. Origin of the enhanced photocatalytic activity of (Ni, Se, and B) mono-and co-doped anatase TiO₂ materials under visible light: A hybrid DFT study (2020) RSC Advances, 10 (70), pp. 43092-43102. [10.1039/d0ra07781j](https://doi.org/10.1039/d0ra07781j)
 7. Božanić, D.K., Garcia, G.A., Sublemontier, O., Pajović, J., Djoković, V., Nahon, L. Velocity Map Imaging VUV Angle-Resolved Photoemission on Isolated Nanosystems: Case of Gold Nanoparticles (2020) Journal of Physical Chemistry C, 124 (44), pp. 24500-24512. [10.1021/acs.jpcc.0c08152](https://doi.org/10.1021/acs.jpcc.0c08152)
 8. Danilović, D., Božanić, D.K., Dojčilović, R., Vukmirović, N., Sapkota, P., Vukašinović, I., Djoković, V., Bozek, J., Nicolas, C., Ptasinska, S., Milosavljević, A.R. Aerosol synthesis and gas-phase photoelectron spectroscopy of Ag-Bi-I nanosystems (2020) Journal of Physical Chemistry C, 124 (43), pp. 23930-23937. [10.1021/acs.jpcc.0c06819](https://doi.org/10.1021/acs.jpcc.0c06819)
 9. Luciani, G., Imperato, C., Vitiello, G. Photosensitive hybrid nanostructured materials: The big challenges for sunlight capture (2020) Catalysts, 10 (1), art. no. 103. [10.3390/catal10010103](https://doi.org/10.3390/catal10010103)
9. M. Barló, X. Zhang, I. Kulai, Da S. Yang, **D. N. Sredojević**, A. Sil, X. Ji, K. Salih, H. S. Bazzi, H. Bronstein, L. Fang, J. Kim, T. Marks, X. Guo, M. Al-Hashimi, **Indacenodithiazole Ladder Type Bridged Di(thiophene)-Difluoro-Benzothiadiazole Conjugated Copolymers as Ambipolar Organic Field Effect Transistors** *Chemistry of Materials* 2019, 31, 9488-9496.

Цитиран у:

1. Sun, W., Adachi, Y., Ohshita, J. Dicyanovinyl-capped thiazolgermoles with moderate donor-acceptor interaction as visible photoluminescence turn-on sensors for primary amines (2023) Dyes and Pigments, 219, art. no. 111550. [10.1016/j.dyepig.2023.111550](https://doi.org/10.1016/j.dyepig.2023.111550)
2. Sun, W., Adachi, Y., Ohshita, J. Preparation of D-A copolymers based on dithiazolgermole and germaindacenodithiazole as weak electron donor units (2023) Polymer Journal, 55 (7), pp. 797-805. [10.1038/s41428-023-00771-y](https://doi.org/10.1038/s41428-023-00771-y)
3. Li, B., Zou, X., Li, Q., Sang, H., Mu, Y., Wang, J., Pei, J., Yang, C., Li, L., Wan, X. Alternating copolymers of thiophene-flanked thiazoloisindigo and thiophene-flanked benzothiadiazole for high-performance ambipolar organic field-effect transistors (2023) Organic Electronics, 113, art. no. 106708. [10.1016/j.orgel.2022.106708](https://doi.org/10.1016/j.orgel.2022.106708)
4. Li, G., Liu, X., Wu, M., Zeng, R., Li, Q., Yuan, A., Shi, C. Color-tunable donor-acceptor-type B-embedded dioxygen-bridged π -conjugated molecules: Synthesis, structures, and optical properties (2022) Dyes and Pigments, 208, art. no. 110805. [10.1016/j.dyepig.2022.110805](https://doi.org/10.1016/j.dyepig.2022.110805)
5. Zhang, Y., Zhang, W., Wang, L., Yu, G. Synthetic strategies, molecular engineering and applications of semiconducting polymers based on diarylethylene units in electronic devices (2022) Journal of Materials Chemistry C, 10 (48), pp. 18091-18119. [10.1039/d2tc04383a](https://doi.org/10.1039/d2tc04383a)
6. Attar, S., Yang, R., Chen, Z., Ji, X., Comí, M., Banerjee, S., Fang, L., Liu, Y., Al-Hashimi, M. Thiazole fused S,N-heteroacene step-ladder polymeric semiconductors for organic transistors (2022) Chemical Science, 13 (41), pp. 12034-12044. [10.1039/d2sc04661j](https://doi.org/10.1039/d2sc04661j)
7. Barron, J., Attar, S., Bhattacharya, P., Yu, P., Al-Hashimi, M., Guha, S. Visualizing transport in thiazole flanked isindigo-based donor-acceptor polymer field-effect transistors (2022) Journal of Materials Chemistry C, 10 (39), pp. 14653-14660. [10.1039/d2tc02748h](https://doi.org/10.1039/d2tc02748h)
8. Sun, W., Adachi, Y., Ohshita, J. Synthesis of thiazole-condensed germoles with enhanced electron-deficient properties (2022) Dyes and Pigments, 203, art. no. 110333. [10.1016/j.dyepig.2022.110333](https://doi.org/10.1016/j.dyepig.2022.110333)
9. Salih, K.S.M. Modern Development in Copper- and Nickel-Catalyzed Cross-Coupling Reactions: Formation of Carbon-Carbon and Carbon-Heteroatom bonds under Microwave Irradiation Conditions (2022) Asian Journal of Organic Chemistry, 11 (4), art. no. e202200023. [10.1002/ajoc.202200023](https://doi.org/10.1002/ajoc.202200023)

10. Li, M., Lv, A. Recent Progress in Ambipolar Organic Field-Effect Transistors Based on Organic Semiconductor Bilayer (2022) Chinese Journal of Organic Chemistry, 42 (1), pp. 54-66. [10.6023/cjoc202107016](https://doi.org/10.6023/cjoc202107016)
 11. Patra, D., Comí, M., Zhang, X., Kini, G.P., Udayakantha, M., Kalin, A.J., Banerjee, S., Fang, L., Guo, X., Al-Hashimi, M. Design, synthesis and characterization of fused bithiazole- And dithiophene-based low bandgap thienylenevinylene copolymers (2021) Polymer Chemistry, 12 (41), pp. 5942-5951. [10.1039/d1py00773d](https://doi.org/10.1039/d1py00773d)
 12. Dey, S., Attar, S., Manley, E.F., Moncho, S., Brothers, E.N., Bazzi, H.S., Bronstein, H., Marks, T.J., Heeney, M., Schroeder, B.C., Al-Hashimi, M. Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-d:5,4-d']bisthiazoles via Nucleophilic Aromatic Substitution (2021) ACS Applied Materials and Interfaces, 13 (34), pp. 41094-41101. [10.1021/acsami.1c10858](https://doi.org/10.1021/acsami.1c10858)
 13. Karaman, C.Z., Göker, S., Şahin, Ü., Hacıoglu, S.O., Aslan, S.T., Hacıefendioğlu, T., Hizalan, G., Yıldırım, E., Çırpan, A., Toppare, L. Effect of thiophene, 3-hexylthiophene, selenophene, and Thieno[3,2-b]thiophene spacers on OPV device performance of novel 2,1,3-benzothiadiazole based alternating copolymers (2021) Journal of Electroanalytical Chemistry, 895, art. no. 115483. [10.1016/j.jelechem.2021.115483](https://doi.org/10.1016/j.jelechem.2021.115483)
 14. Zhang, N., Gao, H., Jia, Y.-L., Pan, J.-B., Luo, X.-L., Chen, H.-Y., Xu, J.-J. Ultrasensitive Nucleic Acid Assay Based on AIE-Active Polymer Dots with Excellent Electrochemiluminescence Stability (2021) Analytical Chemistry, 93 (17), pp. 6857-6864. [10.1021/acs.analchem.1c00947](https://doi.org/10.1021/acs.analchem.1c00947)
 15. Comí, M., Patra, D., Yang, R., Chen, Z., Harbuzaru, A., Wubulikasimu, Y., Banerjee, S., Ponce Ortiz, R., Liu, Y., Al-Hashimi, M. Alkoxy functionalized benzothiadiazole based donor-acceptor conjugated copolymers for organic field-effect transistors (2021) Journal of Materials Chemistry C, 9 (15), pp. 5113-5123. [10.1039/d1tc00079a](https://doi.org/10.1039/d1tc00079a)
 16. Kimpel, J., Michinobu, T. Conjugated polymers for functional applications: lifetime and performance of polymeric organic semiconductors in organic field-effect transistors (2021) Polymer International, 70 (4), pp. 367-373. [10.1002/pi.6020](https://doi.org/10.1002/pi.6020)
 17. Karaman, C.Z., Göker, S., Hacıoglu, S.O., Hacıefendioğlu, T., Yıldırım, E., Toppare, L. Altering Electronic and Optical Properties of Novel Benzothiadiazole Comprising Homopolymers via π Bridges (2021) Journal of the Electrochemical Society, 168 (3), art. no. 036514. [10.1149/1945-7111/abedc5](https://doi.org/10.1149/1945-7111/abedc5)
 18. Cao, Y., Zhu, C., Barlóg, M., Barker, K.P., Ji, X., Kalin, A.J., Al-Hashimi, M., Fang, L. Electron-Deficient Polycyclic π -System Fused with Multiple B \rightarrow N Coordinate Bonds (2021) Journal of Organic Chemistry, 86 (3), pp. 2100-2106. [10.1021/acs.joc.0c02052](https://doi.org/10.1021/acs.joc.0c02052)
 19. Murto, P., Elmas, S., Méndez-Romero, U.A., Yin, Y., Genene, Z., Mone, M., Andersson, G.G., Andersson, M.R., Wang, E. Highly Stable Indacenodithieno[3,2-b]thiophene-Based Donor-Acceptor Copolymers for Hybrid Electrochromic and Energy Storage Applications (2020) Macromolecules, 53 (24), pp. 11106-11119. [10.1021/acs.macromol.0c02212](https://doi.org/10.1021/acs.macromol.0c02212)
 20. Chen, Z., Zhang, W., Zhou, Y., Wei, X., Li, C., Wang, L., Yu, G. Remarkable effect of π -skeleton conformation in finitely conjugated polymer semiconductors (2020) Journal of Materials Chemistry C, 8 (26), pp. 9055-9063. [10.1039/d0tc01303j](https://doi.org/10.1039/d0tc01303j)
 21. Salih, K.S.M., Baqi, Y. Microwave-assisted palladium-catalyzed cross-coupling reactions: Generation of carbon-carbon bond (2020) Catalysts, 10 (1), art. no. 4. [10.3390/catal10010004](https://doi.org/10.3390/catal10010004)
10. M. Prekajski-Đorđević, I. Vukoje, V. Lazić, V. Đorđević, **D. Sredojević**, J. Dostanić, D. Lončarević, S. P. Ahrenkiel, M. R. Belić, J. M. Nedeljković, **Electronic structure of surface complexes between CeO₂ and benzene derivatives: A comparative experimental and DFT study** *Materials Chemistry and Physics* 2019, 236, 121816.

Цитиран у:

1. Barbieriková, Z., Lončarević, D., Papan, J., Vukoje, I.D., Stoilković, M., Phillip Ahrenkiel, S., Nedeljković, J.M. Photocatalytic hydrogen evolution over surface-modified titanate nanotubes by 5-aminosalicylic acid decorated with silver nanoparticles (2020) *Advanced Powder Technology*, 31 (12), pp. 4683-4690. [10.1016/j.appt.2020.11.001](https://doi.org/10.1016/j.appt.2020.11.001)
2. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al_2O_3 powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013. [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
11. Z. Barbieriková, D. Dvoranová, V. Brezová, E. Džunuzović, **D. N. Sredojević**, V. Lazić, J. M. Nedeljković, **Visible-light-responsive surface-modified TiO_2 powder with 4-chlorophenol: A combined experimental and DFT study**, *Optical Materials* 2019, 89, 237-242.

Цитиран у:

1. Kusiak-Nejman, E., Ćmielewska, K., Wanag, A., Ekiert, E., Pelech, I., Narkiewicz, U., Morawski, A.W. Effect of TiO_2 crystallinity on the photocatalytic reduction of nitrogen and carbon dioxide (2023) *Applied Catalysis A: General*, 657, art. no. 119164. [10.1016/j.apcata.2023.119164](https://doi.org/10.1016/j.apcata.2023.119164)
2. Bui, H.T., Park, H.Y., Alvarez, P.J.J., Lee, J., Kim, W., Kim, E.-J. Visible-Light Activation of a Dissolved Organic Matter- TiO_2 Complex Mediated via Ligand-to-Metal Charge Transfer (2022) *Environmental Science and Technology*, 56 (15), pp. 10829-10837. [10.1021/acs.est.2c02975](https://doi.org/10.1021/acs.est.2c02975)
3. Sienkiewicz, A., Kusiak-Nejman, E., Wanag, A., Aidinis, K., Piwowarska, D., Morawski, A.W., Guskos, N. High-temperature treated TiO_2 modified with 3-aminopropyltriethoxysilane as photoactive nanomaterials (2022) *Reviews on Advanced Materials Science*, 61 (1), pp. 726-733. [10.1515/rams-2022-0264](https://doi.org/10.1515/rams-2022-0264)
4. Liu, X., Wang, P., Shen, Y., Zheng, L., Han, L., Deng, J., Zhang, J., Wang, A., Ren, W., Gao, F., Zhang, D. Boosting SO_2 -Resistant NO_x Reduction by Modulating Electronic Interaction of Short-Range Fe-O Coordination over $\text{Fe}_2\text{O}_3/\text{TiO}_2$ Catalysts (2022) *Environmental Science and Technology*. [10.1021/acs.est.2c01812](https://doi.org/10.1021/acs.est.2c01812)
5. Yu, S. Application Value Analysis of Nanooptical Materials in Martial Art Single-Kick Protective Equipment (2022) *Journal of Nanomaterials*, 2022, art. no. 2714874. [10.1155/2022/2714874](https://doi.org/10.1155/2022/2714874)
6. Mendonça, C.D., Khan, S.U., Rahemi, V., Verbruggen, S.W., Machado, S.A.S., De Wael, K. Surface plasmon resonance-induced visible light photocatalytic TiO_2 modified with AuNPs for the quantification of hydroquinone (2021) *Electrochimica Acta*, 389, art. no. 138734. [10.1016/j.electacta.2021.138734](https://doi.org/10.1016/j.electacta.2021.138734)
7. Magon, C.J., Zarto, H.L., Donoso, J.P., Eckert, H., Devis, S., Benavente, E., Villarroel, R., González, G. Photoinduced Paramagnetic Centers in Nanocomposites Formed by Titanium Dioxide and Myristic Acid (2021) *Journal of Physical Chemistry C*, 125 (12), pp. 6773-6786. [10.1021/acs.jpcc.1c00200](https://doi.org/10.1021/acs.jpcc.1c00200)
8. Barbieriková, Z., Lončarević, D., Papan, J., Vukoje, I.D., Stoilković, M., Phillip Ahrenkiel, S., Nedeljković, J.M. Photocatalytic hydrogen evolution over surface-modified titanate nanotubes by 5-aminosalicylic acid decorated with silver nanoparticles (2020) *Advanced Powder Technology*, 31 (12), pp. 4683-4690. [10.1016/j.appt.2020.11.001](https://doi.org/10.1016/j.appt.2020.11.001)
9. Wang, B., Cui, G.-Y., Zhang, B.-B., Li, Z., Ma, H.-X., Wang, W., Zhang, F.-Y., Ma, X.-X. Novel axial substituted subphthalocyanine and its TiO_2 photocatalyst for degradation of organic water pollutant under visible light (2020) *Optical Materials*, 109, art. no. 110202. [10.1016/j.optmat.2020.110202](https://doi.org/10.1016/j.optmat.2020.110202)
10. Chen, J., Liu, L., Hu, J., Zhang, Q., Gong, L., Wei, X. Preparation of $\text{SnS}_2/\text{TiO}_2$ by a thermo-solvent ultrasonic method and its high photo-catalytic performance for decontamination under visible light (2020) *Journal of Environmental Chemical Engineering*, 8 (5), art. no. 104121. [10.1016/j.jece.2020.104121](https://doi.org/10.1016/j.jece.2020.104121)
11. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al_2O_3 powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013, . [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)

12. Fang, X., Zha, Y., Xu, L., Yu, Y., Ju, J. Progresses on the visiblelight photocatalytic performance of nanometer TiO₂ composite material (2020) *Speciality Petrochemicals*, 37 (3), pp. 76-82.
 13. Vorontsov, A.V., Valdés, H., Smirniotis, P.G., Paz, Y. Recent Advancements in the Understanding of the Surface Chemistry in TiO₂ Photocatalysis (2020) *Surfaces*, 3 (1), pp. 72-92. [10.3390/surfaces3010008](https://doi.org/10.3390/surfaces3010008)
 14. Liu, Y., Tian, J., Wang, Q., Wei, L., Wang, C., Yang, C. Enhanced visible light photocatalytic activity of g-C₃N₄ via the synergistic effect of K atom bridging doping and nanosheets formed by thermal exfoliation (2020) *Optical Materials*, 99, art. no. 109594. [10.1016/j.optmat.2019.109594](https://doi.org/10.1016/j.optmat.2019.109594)
 15. Luciani, G., Imparato, C., Vitiello, G. Photosensitive hybrid nanostructured materials: The big challenges for sunlight capture (2020) *Catalysts*, 10 (1), art. no. 103. [10.3390/catal10010103](https://doi.org/10.3390/catal10010103)
12. V. Lazić, I. Vukoje, B. Milićević, B. Spremo-Potparević, L. Živković, D. Topalović, V. Bajić, **D. Sredojević**, J. Nedeljković, **Efficiency of interfacial charge transfer complex between TiO₂ nanoparticles and caffeic acid against DNA damage in vitro: combinatorial analysis** *Journal of the Serbian Chemical Society* 2019, 84 (6) 539-553.

Цитиран у:

1. Kirkland, D., Aardema, M.J., Battersby, R.V., Beevers, C., Burnett, K., Burzlaff, A., Czich, A., Donner, E.M., Fowler, P., Johnston, H.J., Krug, H.F., Pfuhler, S., Stankowski, L.F., Jr. A weight of evidence review of the genotoxicity of titanium dioxide (TiO₂) (2022) *Regulatory Toxicology and Pharmacology*, 136, art. no. 105263. [10.1016/j.yrtph.2022.105263](https://doi.org/10.1016/j.yrtph.2022.105263)
 2. Younes, M., Aquilina, G., Castle, L., Engel, K.-H., Fowler, P., Frutos Fernandez, M.J., Fürst, P., Gundert-Remy, U., Gürtler, R., Husøy, T., Manco, M., Mennes, W., Moldeus, P., Passamonti, S., Shah, R., Waalkens-Berendsen, I., Wölfe, D., Corsini, E., Cubadda, F., De Groot, D., FitzGerald, R., Gunnare, S., Gutleb, A.C., Mast, J., Mortensen, A., Oomen, A., Piersma, A., Plichta, V., Ulbrich, B., Van Loveren, H., Benford, D., Bignami, M., Bolognesi, C., Crebelli, R., Dusinska, M., Marcon, F., Nielsen, E., Schlatter, J., Vlemminckx, C., Barmaz, S., Carfi, M., Civitella, C., Giarola, A., Rincon, A.M., Serafimova, R., Smeraldi, C., Tarazona, J., Tard, A., Wright, M., EFSA Panel on Food Additives and Flavourings (FAF) Safety assessment of titanium dioxide (E171) as a food additive (2021) *EFSA Journal*, 19 (5), art. no. e06585. [10.2903/j.efsa.2021.6585](https://doi.org/10.2903/j.efsa.2021.6585)
13. V. Đorđević, **D. N. Sredojević**, J. Dostanić, D. Lončarević, S. P. Ahrenkiel, N. Švrakić, E. N. Brothers, M. Belić, J. M. Nedeljković, **Visible light absorption of surface modified Al₂O₃ powders: A comparative DFT and experimental study** *Microporous and Mesoporous Materials* 2019, 273, 41-49.

Цитиран у:

1. Madhusudan, P., Lee, C., Kim, J.-O. Synthesis of Al₂O₃@Fe₂O₃ core-shell nanorods and its potential for fast phosphate recovery and adsorption of chromium (VI) ions from contaminated wastewater (2023) *Separation and Purification Technology*, 326, art. no. 124691. [10.1016/j.seppur.2023.124691](https://doi.org/10.1016/j.seppur.2023.124691)
2. Ali, A., Ahmad, S.N. Effect of Temperature on Hard TiB₂-Al₂O₃-Ti Coatings Deposited Using Electron Beam Physical Vapor Deposition (2023) *Journal of Materials Engineering and Performance*, 32 (10), pp. 4604-4625. [10.1007/s11665-022-07414-y](https://doi.org/10.1007/s11665-022-07414-y)
3. Rocha-Rangel, E., Calles-Arriaga, C.A., López-Hernández, J., Rodríguez-García, J.A. MANUFACTURE OF TOUGHENED Al₂O₃-BASED COMPOSITES BY THE COMBINATION OF RBAO AND SPS PROCESSES (2023) *Archives of Metallurgy and Materials*, 68 (1), pp. 249-255. [10.24425/amm.2023.141501](https://doi.org/10.24425/amm.2023.141501)

4. Sakib, S., Bakhshandeh, F., Saha, S., Soleymani, L., Zhitomirsky, I. Surface Functionalization of Metal Oxide Semiconductors with Catechol Ligands for Enhancing Their Photoactivity (2021) *Solar RRL*, 5 (10), art. no. 2100512. [10.1002/solr.202100512](https://doi.org/10.1002/solr.202100512)
5. Fakhri, H., Farzadkia, M. Nanophotocatalysts for biodegradation of materials (2021) *Biodegradation and Biodeterioration at the Nanoscale*, pp. 85-103. [10.1016/B978-0-12-823970-4.00005-1](https://doi.org/10.1016/B978-0-12-823970-4.00005-1)
6. Barbieriková, Z., Lončarević, D., Papan, J., Vukoje, I.D., Stoilković, M., Phillip Ahrenkiel, S., Nedeljković, J.M. Photocatalytic hydrogen evolution over surface-modified titanate nanotubes by 5-aminosalicylic acid decorated with silver nanoparticles (2020) *Advanced Powder Technology*, 31 (12), pp. 4683-4690. [10.1016/j.appt.2020.11.001](https://doi.org/10.1016/j.appt.2020.11.001)
7. Franchi, D., Amara, Z. Applications of Sensitized Semiconductors as Heterogeneous Visible-Light Photocatalysts in Organic Synthesis (2020) *ACS Sustainable Chemistry and Engineering*, 8 (41), pp. 15405-15429. [10.1021/acssuschemeng.0c05179](https://doi.org/10.1021/acssuschemeng.0c05179)
8. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al₂O₃ powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013, . [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
9. Hadnadjev-Kostic, M., Vulic, T., Dostanic, J., Loncarevic, D. Design and application of various visible light responsive metal oxide photocatalysts (2020) *Handbook of Smart Photocatalytic Materials: Fundamentals, Fabrications and Water Resources Applications*, pp. 65-99. [10.1016/B978-0-12-819051-7.00003-8](https://doi.org/10.1016/B978-0-12-819051-7.00003-8)
10. Smičiklas, I.D., Lazić, V.M., Živković, L.S., Porobić, S.J., Ahrenkiel, S.P., Nedeljković, J.M. Sorption of divalent heavy metal ions onto functionalized biogenic hydroxyapatite with caffeic acid and 3,4-dihydroxybenzoic acid (2019) *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, 54 (9), pp. 899-905. [10.1080/10934529.2019.1606575](https://doi.org/10.1080/10934529.2019.1606575)
11. Lazić, V., Mihajlovski, K., Mraković, A., Illés, E., Stoilković, M., Ahrenkiel, S.P., Nedeljković, J.M. Antimicrobial activity of silver nanoparticles supported by magnetite (2019) *ChemistrySelect*, 4 (14), pp. 4018-4024. [10.1002/slct.201900628](https://doi.org/10.1002/slct.201900628)
12. Lončarević, D., Čupić, Ž. The perspective of using nanocatalysts in the environmental requirements and energy needs of industry (2019) *Industrial Applications of Nanomaterials*, pp. 91-122. [10.1016/B978-0-12-815749-7.00004-9](https://doi.org/10.1016/B978-0-12-815749-7.00004-9)
14. **D. N. Sredojević**, S. Moncho, R. K. Raju, M. R. Belić, E. N. Brothers, **Reversible Olefin Addition to Extended Lattices of a Nickel/Selenium Framework**, *J. Phys. Chem. C*. 2018, 122(39), 22424–22434.

Цитиран у:

1. Pintus, A., Arca, M. 1,2-Diselenolene ligands and related metal complexes: Design, synthesis, and applications (2022) *Coordination Chemistry Reviews*, 464, art. no. 214444 . [10.1016/j.ccr.2022.214444](https://doi.org/10.1016/j.ccr.2022.214444)
15. M. G. Miljković, V. Lazić, K. Banjanac, S. Z. Davidović, D. I. Bezbradica, A. D. Marinković, **D. Sredojević**, J. M. Nedeljković, S. I. Dimitrijević Branković, **Immobilization of dextranucrase on functionalized TiO₂ supports**. *International Journal of Biological Macromolecules* 2018, 114, 1216–1223.

Цитиран у:

1. Almulaiky, Y.Q., Khalil, N.M., Algamal, Y., Al-Gheethi, A., Aissa, A., Al-Maaqar, S.M., Himmed, M., Bilal, M., Alkabli, J., El-Shishtawy, R.M. Optimization of Biocatalytic Steps via Response Surface Methodology to Produce Immobilized Peroxidase on Chitosan-Decorated AZT Composites for Enhanced

- Reusability and Storage Stability (2023) *Catalysis Letters*, 153 (9), pp. 2543-2557. Cited 1 time. [10.1007/s10562-022-04185-y](https://doi.org/10.1007/s10562-022-04185-y)
2. Shouket, S., khurshid, S., Khan, J., Batool, R., Sarwar, A., Aziz, T., Alhomrani, M., Alamri, A.S., Sameeh, M.Y., Zubair Filimban, F. Enhancement of shelf-life of food items via immobilized enzyme nanoparticles on varied supports. A sustainable approach towards food safety and sustainability (2023) *Food Research International*, 169, art. no. 112940. [10.1016/j.foodres.2023.112940](https://doi.org/10.1016/j.foodres.2023.112940)
 3. Wu, J., Ma, X., He, T., Han, J., Zhu, Y., Li, C., Wang, Y. A photo-enzyme coupling catalysis system with high enzyme loading for the efficient degradation of BPA in water (2023) *Separation and Purification Technology*, 313, art. no. 123392, . [10.1016/j.seppur.2023.123392](https://doi.org/10.1016/j.seppur.2023.123392)
 4. Xu, Y., Wang, H., Lin, Q., Miao, Q., Liu, M., Ni, H., Zhang, L., Lyu, M., Wang, S. Immobilization of Dextranase Obtained from the Marine Cellulosimicrobium sp. Y1 on Nanoparticles: Nano-TiO₂ Improving Hydrolysate Properties and Enhancing Reuse (2023) *Nanomaterials*, 13 (6), art. no. 1065 .[10.3390/nano13061065](https://doi.org/10.3390/nano13061065)
 5. Jia, F., Liu, Y., Deng, X., Cao, X., Zheng, X., Zhou, L., Gao, J., Jiang, Y. Immobilization of Enzymes on Cyclodextrin-Anchored Dehiscent Mesoporous TiO₂ for Efficient Photoenzymatic Hydroxylation (2023) *ACS Applied Materials and Interfaces*, 15 (6), pp. 7928-7938. [10.1021/acsami.2c17971](https://doi.org/10.1021/acsami.2c17971)
 6. Galstyan, V., Macak, J.M., Djenizian, T. Anodic TiO₂ nanotubes: A promising material for energy conversion and storage (2022) *Applied Materials Today*, 29, art. no. 101613. [10.1016/j.apmt.2022.101613](https://doi.org/10.1016/j.apmt.2022.101613)
 7. Zhou, W., Zhou, X., Zhuang, W., Lin, R., Zhao, Y., Ge, L., Li, M., Wu, J., Yang, P., Zhang, H., Zhu, C., Ying, H. Toward controlled geometric structure and surface property heterogeneities of TiO₂ for lipase immobilization (2021) *Process Biochemistry*, 110, pp. 118-128. [10.1016/j.procbio.2021.08.004](https://doi.org/10.1016/j.procbio.2021.08.004)
 8. Lee, M.-K., Lee, Y.J., Kang, J.Y., Lee, S.H. Strong enzyme immobilization associated by anatase TiO₂ sputtered on platinum black nanoclusters to improve sensitivity and long-term stability of electrochemical cholesterol sensor (2021) *Sensors and Actuators, B: Chemical*, 334, art. no. 129617. [10.1016/j.snb.2021.129617](https://doi.org/10.1016/j.snb.2021.129617)
 9. Wang, X., Cheng, H., Gao, F., Wang, J., Zhai, Q., Hu, M., Li, S., Jiang, Y. CPO-Fe₃O₄@mTiO₂ nanocomposite with integrated magnetic separation and enzymatic and photocatalytic activities in efficient degradation of organic contaminants in wastewater (2021) *Journal of Chemical Technology and Biotechnology*, 96 (5), pp. 1437-1446. [10.1002/jctb.6664](https://doi.org/10.1002/jctb.6664)
 10. Borzouee, F., Varshosaz, J., Cohan, R.A., Norouzian, D., Pirposhteh, R.T. A comparative analysis of different enzyme immobilization nano-materials: Progress, constraints and recent trends (2021) *Current Medicinal Chemistry*, 28 (20), pp. 3980-4003. [10.2174/0929867328999201214225249](https://doi.org/10.2174/0929867328999201214225249)
 11. da Silva, R.M., Gonçalves, L.R.B., Rodrigues, S. Different strategies to co-immobilize dextranase and dextranase onto agarose based supports: Operational stability study (2020) *International Journal of Biological Macromolecules*, 156, pp. 411-419. [10.1016/j.ijbiomac.2020.04.077](https://doi.org/10.1016/j.ijbiomac.2020.04.077)
 12. Galindo-De-La-Rosa, J., Álvarez, A., Gurrola, M.P., Rodríguez-Morales, J.A., Oza, G., Arriaga, L.G., Ledesma-García, J. Alcohol Dehydrogenase Immobilized on TiO₂Nanotubes for Ethanol Microfluidic Fuel Cells (2020) *ACS Sustainable Chemistry and Engineering*, 8 (29), pp. 10900-10910. [10.1021/acssuschemeng.0c03219](https://doi.org/10.1021/acssuschemeng.0c03219)
 13. Nasrabadi, M., Beyramabadi, S.A., Morsali, A. Surface functionalization of chitosan with 5-nitroisatin (2020) *International Journal of Biological Macromolecules*, 147, pp. 534-546. [10.1016/j.ijbiomac.2020.01.070](https://doi.org/10.1016/j.ijbiomac.2020.01.070)
 14. Nisha, Azmi, W. Entrapment of purified novel dextranase obtained from newly isolated *Acetobacter tropicalis* and its comparative study of kinetic parameters with free enzyme (2019) *Biocatalysis and Biotransformation*, 37 (5), pp. 349-360. [10.1080/10242422.2019.1568412](https://doi.org/10.1080/10242422.2019.1568412)
 15. Agrawal, S., Kango, N. Development and catalytic characterization of L-asparaginase nano-bioconjugates (2019) *International Journal of Biological Macromolecules*, 135, pp. 1142-1150. [10.1016/j.ijbiomac.2019.05.154](https://doi.org/10.1016/j.ijbiomac.2019.05.154)

16. Kim, J.K., Abdelhamid, M.A.A., Pack, S.P. Direct immobilization and recovery of recombinant proteins from cell lysates by using EctP1-peptide as a short fusion tag for silica and titania supports (2019) *International Journal of Biological Macromolecules*, 135, pp. 969-977. [10.1016/j.ijbiomac.2019.05.105](https://doi.org/10.1016/j.ijbiomac.2019.05.105)
 17. Shetti, N.P., Bukkitgar, S.D., Reddy, K.R., Reddy, C.V., Aminabhavi, T.M. Nanostructured titanium oxide hybrids-based electrochemical biosensors for healthcare applications (2019) *Colloids and Surfaces B: Biointerfaces*, 178, pp. 385-394. [10.1016/j.colsurfb.2019.03.013](https://doi.org/10.1016/j.colsurfb.2019.03.013)
 18. da Silva, R.M., Paiva Souza, P.M., Fernandes, F.A.N., Gonçalves, L.R.B., Rodrigues, S. Co-immobilization of dextranase and dextranase in epoxy-agarose- tailoring oligosaccharides synthesis (2019) *Process Biochemistry*, 78, pp. 71-81. [10.1016/j.procbio.2019.01.009](https://doi.org/10.1016/j.procbio.2019.01.009)
16. D. Dekanski, B. Spremo-Potparević, V. Bajić, L. Živković, D. Topalović, **D. N. Sredojević**, V. Lazić, J. M. Nedeljković, **Acute toxicity study in mice of orally administrated TiO₂ nanoparticles functionalized with caffeic acid**, *Food and Chemical Toxicology* 2018, 115, 42-48.

Цитиран у:

1. Suhaini, N.A.M., Pauzi, M.F., Juhari, S.N., Mohd, K.S., Bakar, N.A.A. In Vivo Toxicity Study on The Effects of Aqueous Propolis Extract From Malaysian Stingless Bee (*Geniotrigona thoracica*) in Mice (2023) *Malaysian Applied Biology*, 52 (2), pp. 61-69. [10.55230/mabjournal.v52i2.2646](https://doi.org/10.55230/mabjournal.v52i2.2646)
2. Kirkland, D., Aardema, M.J., Battersby, R.V., Beevers, C., Burnett, K., Burzlaff, A., Czich, A., Donner, E.M., Fowler, P., Johnston, H.J., Krug, H.F., Pfuhler, S., Stankowski, L.F., Jr. A weight of evidence review of the genotoxicity of titanium dioxide (TiO₂) (2022) *Regulatory Toxicology and Pharmacology*, 136, art. no. 105263. [10.1016/j.yrtph.2022.105263](https://doi.org/10.1016/j.yrtph.2022.105263)
3. Rolo, D., Assunção, R., Ventura, C., Alvito, P., Gonçalves, L., Martins, C., Bettencourt, A., Jordan, P., Vital, N., Pereira, J., Pinto, F., Matos, P., Silva, M.J., Louro, H. Adverse Outcome Pathways Associated with the Ingestion of Titanium Dioxide Nanoparticles—A Systematic Review (2022) *Nanomaterials*, 12 (19), art. no. 3275. [10.3390/nano12193275](https://doi.org/10.3390/nano12193275)
4. Chahardoli, A., Qalekhani, F., Shokoohinia, Y., Fattahi, A. Caffeic acid based titanium dioxide nanoparticles: Blood compatibility, anti-inflammatory, and cytotoxicity (2022) *Journal of Molecular Liquids*, 361, art. no. 119674. [10.1016/j.molliq.2022.119674](https://doi.org/10.1016/j.molliq.2022.119674)
5. Shafiq, A., Madni, A., Khan, S., Sultana, H., Sumaira, Shah, H., Khan, S., Rehman, S., Nawaz, M. Core-shell Pluronic F127/chitosan based nanoparticles for effective delivery of methotrexate in the management of rheumatoid arthritis (2022) *International Journal of Biological Macromolecules*, 213, pp. 465-477. [10.1016/j.ijbiomac.2022.05.192](https://doi.org/10.1016/j.ijbiomac.2022.05.192)
6. Martakov, I.S., Shevchenko, O.G., Torlopov, M.A., Sitnikov, P.A. Colloidally Stable Conjugates of Phenolic Acids with γ -AlOOH Nanoparticles as Efficient and Biocompatible Nanoantioxidants (2022) *Journal of Molecular Structure*, 1248, art. no. 131471. [10.1016/j.molstruc.2021.131471](https://doi.org/10.1016/j.molstruc.2021.131471)
7. Shi, J., Han, S., Zhang, J., Liu, Y., Chen, Z., Jia, G. Advances in genotoxicity of titanium dioxide nanoparticles in vivo and in vitro (2022) *NanoImpact*, 25, art. no. 100377. [10.1016/j.impact.2021.100377](https://doi.org/10.1016/j.impact.2021.100377)
8. Li, Y., Cummins, E. A semi-quantitative risk ranking of potential human exposure to engineered nanoparticles (ENPs) in Europe (2021) *Science of the Total Environment*, 778, art. no. 146232. [10.1016/j.scitotenv.2021.146232](https://doi.org/10.1016/j.scitotenv.2021.146232)
9. Younes, M., Aquilina, G., Castle, L., Engel, K.-H., Fowler, P., Frutos Fernandez, M.J., Fürst, P., Gundert-Remy, U., Gürtler, R., Husøy, T., Manco, M., Mennes, W., Moldeus, P., Passamonti, S., Shah, R., Waalkens-Berendsen, I., Wölflé, D., Corsini, E., Cubadda, F., De Groot, D., FitzGerald, R., Gunnare, S., Gutleb, A.C., Mast, J., Mortensen, A., Oomen, A., Piersma, A., Plichta, V., Ulbrich, B., Van Loveren, H., Benford, D., Bignami, M., Bolognesi, C., Crebelli, R., Dusinska, M., Marcon, F., Nielsen, E., Schlatter, J.,

- Vleminckx, C., Barmaz, S., Carfí, M., Civitella, C., Giarola, A., Rincon, A.M., Serafimova, R., Smeraldi, C., Tarazona, J., Tard, A., Wright, M., EFSA Panel on Food Additives and Flavourings (FAF) Safety assessment of titanium dioxide (E171) as a food additive (2021) *EFSA Journal*, 19 (5), art. no. e06585. [10.2903/j.efsa.2021.6585](https://doi.org/10.2903/j.efsa.2021.6585)
10. Khwaldeh, A., Siyam, A.A., Alzbeede, A., Farajallah, M., Shraideh, Z., Badran, D. Ameliorative effects of curcumin and caffeic acid against short term exposure of waterpipe tobacco smoking on lung, heart and kidney in mice (2021) *Anatomy and Cell Biology*, 54 (1), pp. 93-103. [10.5115/acb.20.200](https://doi.org/10.5115/acb.20.200)
 11. Markowska-Szczupak, A., Endo-Kimura, M., Paszkiewicz, O., Kowalska, E. Are titania photocatalysts and titanium implants safe? Review on the toxicity of titanium compounds (2020) *Nanomaterials*, 10 (10), art. no. 2065, pp. 1-34. [10.3390/nano10102065](https://doi.org/10.3390/nano10102065)
 12. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al_2O_3 powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013. [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
 13. Sahu, A., Das, D., Sahu, P., Mishra, S., Sakthivel, A., Gajbhiye, A., Agrawal, R. Bioisosteric Replacement of Amide Group with 1,2,3-Triazoles in Acetaminophen Addresses Reactive Oxygen Species-Mediated Hepatotoxic Insult in Wistar Albino Rats (2020) *Chemical Research in Toxicology*, 33 (2), pp. 522-535. [10.1021/acs.chemrestox.9b00392](https://doi.org/10.1021/acs.chemrestox.9b00392)
 14. Cabellos, J., Delpivo, C., Vázquez-Campos, S., Janer, G. In vitro assessment of CeO_2 nanoparticles effects on intestinal microvilli morphology (2019) *Toxicology in Vitro*, 59, pp. 70-77. [10.1016/j.tiv.2019.04.002](https://doi.org/10.1016/j.tiv.2019.04.002)
 15. Sahu, A., Das, D., Agrawal, R.K., Gajbhiye, A. Bio-isosteric replacement of amide group with 1,2,3-triazole in phenacetin improves the toxicology and efficacy of phenacetin-triazole conjugates (PhTCs) (2019) *Life Sciences*, 228, pp. 176-188. [10.1016/j.lfs.2019.05.004](https://doi.org/10.1016/j.lfs.2019.05.004)
 16. Lazić, V., Nedeljković, J.M. Organic-inorganic hybrid nanomaterials: Synthesis, characterization, and application (2019) *Nanomaterials Synthesis: Design, Fabrication and Applications*, pp. 419-449. [10.1016/B978-0-12-815751-0.00012-2](https://doi.org/10.1016/B978-0-12-815751-0.00012-2)
 17. Zaric, B.L., Obradovic, M., Sudar-Milovanovic, E., Nedeljkovic, J., Lazic, V., Isenovic, E.R. Drug delivery systems for diabetes treatment (2019) *Current Pharmaceutical Design*, 25 (2), pp. 166-173. [10.2174/1381612825666190306153838](https://doi.org/10.2174/1381612825666190306153838)
 18. Pang, X., Tong, Y., Xue, W., Yang, Y.-F., Chen, X., Liu, J., Chen, D. Expression and characterization of recombinant human lactoferrin in edible alga *Chlamydomonas reinhardtii* (2019) *Bioscience, Biotechnology and Biochemistry*, 83 (5), pp. 851-859. [10.1080/09168451.2019.1569498](https://doi.org/10.1080/09168451.2019.1569498)
 17. **D. N. Sredojević, Ž. Šljivančanin, E. N. Brothers, M. Belić, Formic acid synthesis by CO_2 hydrogenation over single-atom catalysts based on Ru and Cu embedded in graphene. *ChemistrySelect* 2018, 3, 2631-2637.**

Цитиран у:

1. Pan, C., El-khodary, S., Wang, S., Ling, Q., Hu, X., Xu, L., Zhong, S. Research progress in graphene based single atom catalysts in recent years (2023) *Fuel Processing Technology*, 250, art. no. 107879. [10.1016/j.fuproc.2023.107879](https://doi.org/10.1016/j.fuproc.2023.107879)
2. Yusuf, N., Almomani, F., Qiblawey, H. Catalytic CO_2 conversion to C1 value-added products: Review on latest catalytic and process developments (2023) *Fuel*, 345, art. no. 128178. [10.1016/j.fuel.2023.128178](https://doi.org/10.1016/j.fuel.2023.128178)
3. Zhan, Q.-N., Shuai, T.-Y., Xu, H.-M., Zhang, Z.-J., Li, G.-R. Recent advances in the regulation of the coordination structures and environment of single-atom catalysts for carbon dioxide reduction reaction (2023) *Journal of Materials Chemistry A*, 11 (15), pp. 7949-7986. [10.1039/d2ta09987j](https://doi.org/10.1039/d2ta09987j)
4. Chattaraj, D., Majumder, C. CO_2 hydrogenation to formic acid on Pd-Cu nanoclusters: a DFT study (2023) *Physical Chemistry Chemical Physics*, 25 (3), pp. 2584-2594. [10.1039/d2cp03805f](https://doi.org/10.1039/d2cp03805f)

5. Lin, Y., Yue, H., Liu, C., Zhong, S., Ma, K., Liang, B., Tang, S. Theoretical calculation of hydrogenation of CO₂ to formic acid catalyzed by Ag single atom supported N-modified graphene (2023) *Chemical Industry and Engineering*, 40 (2), pp. 25-32. [10.13353/j.issn.1004.9533.20210373](https://doi.org/10.13353/j.issn.1004.9533.20210373)
6. Zhang, J., Yang, B., Luo, K.H. Unveiling the mechanism of controllable CO₂ hydrogenation by group VIB metal single atom anchored on N-doped graphite: A density functional theory study (2022) *International Journal of Hydrogen Energy*, 47 (97), pp. 40972-40985. [10.1016/j.ijhydene.2022.09.170](https://doi.org/10.1016/j.ijhydene.2022.09.170)
7. Wu, Q., Wu, C. Mechanism insights on single-atom catalysts for CO₂ conversion (2022) *Journal of Materials Chemistry A*, 11 (10), pp. 4876-4906. [10.1039/d2ta06949k](https://doi.org/10.1039/d2ta06949k)
8. Mihet, M., Dan, M., Lazar, M.D. CO₂ Hydrogenation Catalyzed by Graphene-Based Materials (2022) *Molecules*, 27 (11), art. no. 3367. [10.3390/molecules27113367](https://doi.org/10.3390/molecules27113367)
9. Zhang, Y., Mo, Y., Cao, Z. Rational Design of Main Group Metal-Embedded Nitrogen-Doped Carbon Materials as Frustrated Lewis Pair Catalysts for CO₂ Hydrogenation to Formic Acid (2022) *ACS Applied Materials and Interfaces*, 14 (1), pp. 1002-1014. [10.1021/acsami.1c20230](https://doi.org/10.1021/acsami.1c20230)
10. Guo, X., Zhang, H., Yang, H., Bo, Z., Yan, J., Cen, K. Single Ni supported on Ti₃C₂O₂ for uninterrupted CO₂ catalytic hydrogenation to formic acid: A DFT study (2021) *Separation and Purification Technology*, 279, art. no. 119722. [10.1016/j.seppur.2021.119722](https://doi.org/10.1016/j.seppur.2021.119722)
11. Cai, H.-X., Su, D.-M., Zhao, H.-B., Bacha, R.U.S., Guo, Y.-R., Pan, Q.-J. A DFT study on carbon dioxide reduction of low-valent diuranium complex supported by a polypyrrolic macrocycle (2021) *Chemical Physics Letters*, 776, art. no. 138652. [10.1016/j.cplett.2021.138652](https://doi.org/10.1016/j.cplett.2021.138652)
12. Zhang, T., Zhong, J., Wu, Z. Recent advances in catalytic conversion of carbon dioxide to propiolic acids over coinage-metal-based catalysts (2021) *Journal of Energy Chemistry*, 59, pp. 572-580. [10.1016/j.jechem.2020.12.006](https://doi.org/10.1016/j.jechem.2020.12.006)
13. Ali, S., Iqbal, R., Khan, A., Rehman, S.U., Haneef, M., Yin, L. Stability and Catalytic Performance of Single-Atom Catalysts Supported on Doped and Defective Graphene for CO₂ Hydrogenation to Formic Acid: A First-Principles Study (2021) *ACS Applied Nano Materials*, 4 (7), pp. 6893-6902. [10.1021/acsanm.1c00959](https://doi.org/10.1021/acsanm.1c00959)
14. Poldorn, P., Wongnongwa, Y., Mudchimo, T., Jungsuttiwong, S. Theoretical insights into catalytic CO₂ hydrogenation over single-atom (Fe or Ni) incorporated nitrogen-doped graphene (2021) *Journal of CO₂ Utilization*, 48, art. no. 101532. [10.1016/j.jcou.2021.101532](https://doi.org/10.1016/j.jcou.2021.101532)
15. Lii-Rosales, A., Han, Y., Jing, D., Tringides, M.C., Julien, S., Wan, K.-T., Wang, C.-Z., Lai, K.C., Evans, J.W., Thiel, P.A. Encapsulation of metal nanoparticles at the surface of a prototypical layered material (2021) *Nanoscale*, 13 (3), pp. 1485-1506. [10.1039/d0nr07024f](https://doi.org/10.1039/d0nr07024f)
16. Mori, K., Yamashita, H. Design and Architecture of Nanostructured Heterogeneous Catalysts for CO₂ Hydrogenation to Formic Acid/Formate (2021) *CO₂ Hydrogenation Catalysis*, pp. 179-205. [10.1002/9783527824113.ch7](https://doi.org/10.1002/9783527824113.ch7)
17. Zhuo, H.-Y., Zhang, X., Liang, J.-X., Yu, Q., Xiao, H., Li, J. Theoretical Understandings of Graphene-based Metal Single-Atom Catalysts: Stability and Catalytic Performance (2020) *Chemical Reviews*, 120 (21), pp. 12315-12341. [10.1021/acs.chemrev.0c00818](https://doi.org/10.1021/acs.chemrev.0c00818)
18. Shtepliuk, I., Vagin, M., Yakimova, R. Electrochemical deposition of copper on epitaxial graphene (2020) *Applied Sciences (Switzerland)*, 10 (4), art. no. 1405. [10.3390/app10041405](https://doi.org/10.3390/app10041405)
19. Yodsins, N., Rungnim, C., Tungkamani, S., Promarak, V., Namuangruk, S., Jungsuttiwong, S. DFT Study of Catalytic CO₂ Hydrogenation over Pt-Decorated Carbon Nanocones: H₂ Dissociation Combined with the Spillover Mechanism (2020) *Journal of Physical Chemistry C*, 124 (3), pp. 1941-1949. [10.1021/acs.jpcc.9b08776](https://doi.org/10.1021/acs.jpcc.9b08776)
20. Wang, L., Chen, W., Zhang, D., Du, Y., Amal, R., Qiao, S., Wu, J., Yin, Z. Surface strategies for catalytic CO₂ reduction: From two-dimensional materials to nanoclusters to single atoms (2019) *Chemical Society Reviews*, 48 (21), pp. 5310-5349. [10.1039/c9cs00163h](https://doi.org/10.1039/c9cs00163h)

21. Rivera-Cárcamo, C., Serp, P. Single Atom Catalysts on Carbon-Based Materials (2018) ChemCatChem, 10 (22), pp. 5058-5091. [10.1002/cctc.201801174](https://doi.org/10.1002/cctc.201801174)
22. Lii-Rosales, A., Han, Y., Yu, K.M., Jing, D., Anderson, N., Vaknin, D., Tringides, M.C., Evans, J.W., Altman, M.S., Thiel, P.A. Reverse-engineering of graphene on metal surfaces: A case study of embedded ruthenium (2018) Nanotechnology, 29 (50), art. no. 505601. [10.1088/1361-6528/aae1e3](https://doi.org/10.1088/1361-6528/aae1e3)

Хетероцитати радова објављених ПРЕ избора у звање ВИШИ НАУЧНИ САРАДНИК (извор SCOPUS)

1. B. Milićević, V. Đorđević, D. Lončarević, J. Dostanić, S. Phillip Ahrenkiel, M. Dramićanin, **D. N. Sredojević**, N. Švrakić, J. Nedeljković, **Charge-transfer complex formation between TiO₂ nanoparticles and thiosalicylic acid: a comprehensive experimental and DFT study**, *Optical Materials* 2017, 73, 163-171.

Цитиран у:

1. Gil-Londoño, J., Cremona, M., Krambrock, K., Costa, M.E.H.M.D., Almeida, L.A., Marinkovic, B.A. Functionalization of anatase nanoparticles with Glutaric acid and their photochemical and photocatalytic properties under visible light (2023) Ceramics International, 49 (11), 17123-17134. [10.1016/j.ceramint.2023.02.075](https://doi.org/10.1016/j.ceramint.2023.02.075)
 2. Almeida, L.A., Dosen, A., Viol, J., Marinkovic, B.A. TiO₂-Acetylacetone as an Efficient Source of Superoxide Radicals under Reduced Power Visible Light: Photocatalytic Degradation of Chlorophenol and Tetracycline (2022) Catalysts, 12 (2), art. no. 116. [10.3390/catal12020116](https://doi.org/10.3390/catal12020116)
 3. Milićević, B., Chen, Y., Li, J., Dramićanin, M.D., Zhou, J., Wu, M. Organic solvent-assisted co-precipitation synthesis of red-emitting K₂TiF₆:Mn phosphors with improved quantum efficiency and optimized morphology (2022) Dalton Transactions, 51 (4), pp. 1378-1383. [10.1039/d1dt03679c](https://doi.org/10.1039/d1dt03679c)
 4. Almeida, L.A., Habran, M., Carvalho, R.S., da Costa, M.E.H.M., Cremona, M., Silva, B.C., Krambrock, K., Pandoli, O.G., Morgado, E., Jr., Marinkovic, B.A. The influence of calcination temperature on photocatalytic activity of TiO₂-acetylacetone charge transfer complex towards degradation of Nox under visible light (2020) Catalysts, 10 (12), art. no. 1463, pp. 1-18. [10.3390/catal10121463](https://doi.org/10.3390/catal10121463)
 5. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al₂O₃ powder: Photocatalytic study (2020) Optical Materials, 106, art. no. 110013, . [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
 6. Akimsheva, E.Y., Dolinina, E.S., Parfenyuk, E.V. Interactions of sol-gel encapsulated acyclovir with silica matrix (2019) Colloids and Surfaces B: Biointerfaces, 178, pp. 103-110. [10.1016/j.colsurfb.2019.02.052](https://doi.org/10.1016/j.colsurfb.2019.02.052)
 7. Lazić, V., Nedeljković, J.M. Organic-inorganic hybrid nanomaterials: Synthesis, characterization, and application (2019) Nanomaterials Synthesis: Design, Fabrication and Applications, pp. 419-449. [10.1016/B978-0-12-815751-0.00012-2](https://doi.org/10.1016/B978-0-12-815751-0.00012-2)
 8. Lončarević, D., Čupić, Ž. The perspective of using nanocatalysts in the environmental requirements and energy needs of industry (2019) Industrial Applications of Nanomaterials, pp. 91-122. [10.1016/B978-0-12-815749-7.00004-9](https://doi.org/10.1016/B978-0-12-815749-7.00004-9)
2. **D. N. Sredojević**, T. Kovač, E. Džunuzović, V. Đorđević, B. N. Grgur, J. M. Nedeljković, **Surface-modified TiO₂ powders with phenol derivatives: a comparative DFT and experimental study**, *Chem. Phys Lett.* 2017, 686, 167–172.

Цитиран у:

1. Fujisawa, J.-I., Kato, S., Hanaya, M. Substituent effects on interfacial charge-transfer transitions in a TiO₂-phenol complex (2023) Chemical Physics Letters, 827, art. no. 140688. [10.1016/j.cplett.2023.140688](https://doi.org/10.1016/j.cplett.2023.140688)
2. Fujisawa, J.-I., Kato, S., Hanaya, M. Interfacial Charge-Transfer Transitions between ZnO Nanoparticles and Aliphatic Thiols (2023) Journal of Physical Chemistry C, 127 (31), pp. 15300-15306. [10.1021/acs.jpcc.3c01960](https://doi.org/10.1021/acs.jpcc.3c01960)
3. Lopat'eva, E.R., Krylov, I.B., Segida, O.O., Merkulova, V.M., Ilovaisky, A.I., Terent'ev, A.O. Heterogeneous Photocatalysis as a Potent Tool for Organic Synthesis: Cross-Dehydrogenative C–C Coupling of N-Heterocycles with Ethers Employing TiO₂/N-Hydroxyphthalimide System under Visible Light (2023) Molecules, 28 (3), art. no. 934. [10.3390/molecules28030934](https://doi.org/10.3390/molecules28030934)
4. Sonström, A., Boldrini, B., Werner, D., Maichle-Mössmer, C., Rebner, K., Casu, M.B., Anwender, R. Titanium(IV) Surface Complexes Bearing Chelating Catecholato Ligands for Enhanced Band-Gap Reduction (2023) Inorganic Chemistry, 62 (2), pp. 715-729. [10.1021/acs.inorgchem.2c02838](https://doi.org/10.1021/acs.inorgchem.2c02838)
5. Zhang, J., Chen, H., Liu, M., Lu, T., Gao, B., Yang, X., Zhou, L., Li, H., Su, Y. Base-assisted activation of phenols in TiO₂ surface complex under visible light irradiation (2022) Journal of Photochemistry and Photobiology A: Chemistry, 431, art. no. 114005. [10.1016/j.jphotochem.2022.114005](https://doi.org/10.1016/j.jphotochem.2022.114005)
6. Fujisawa, J.-I., Kato, S., Hanaya, M. Detailed study of a TiO₂-phenol complex using deuterated phenol (2022) Chemical Physics Letters, 803, art. no. 139833. [10.1016/j.cplett.2022.139833](https://doi.org/10.1016/j.cplett.2022.139833)
7. Fujisawa, J.-I., Kato, S., Hanaya, M. Interfacial Charge-Transfer Transitions in Weakly Coupled TiO₂ Complexes with Aromatic Monothiols for Visible-Light Photocatalytic Reactions (2022) Journal of Physical Chemistry C, 126 (28), pp. 11602-11610. [10.1021/acs.jpcc.2c03521](https://doi.org/10.1021/acs.jpcc.2c03521)
8. Fujisawa, J.-I., Kato, S., Hanaya, M. Aromatic-ring dependence of interfacial charge-transfer transitions between TiO₂ nanoparticles and aromatic carboxylic acids (2022) Chemical Physics Letters, 788, art. no. 139274. [10.1016/j.cplett.2021.139274](https://doi.org/10.1016/j.cplett.2021.139274)
9. Fujisawa, J.-I., Kato, S., Hanaya, M. Interfacial Charge-Transfer Transitions between TiO₂ Nanoparticles and Benzoic Acid Derivatives (2021) Journal of Physical Chemistry C, 125 (45), pp. 25075-25086. [10.1021/acs.jpcc.1c07555](https://doi.org/10.1021/acs.jpcc.1c07555)
10. Fujisawa, J.-I. Definitive assignment and mechanistic study of interfacial charge-transfer transitions between ZnO and benzenethiol (2021) Chemical Physics Letters, 778, art. no. 138774. [10.1016/j.cplett.2021.138774](https://doi.org/10.1016/j.cplett.2021.138774)
11. Fujisawa, J.-I., Hanaya, M. Linkage Dependence of Interfacial Charge-Transfer Transitions in ZnO: Carboxylate versus Sulfur Linker (2021) Journal of Physical Chemistry A, 125 (27), pp. 5903-5910. [10.1021/acs.jpca.1c03073](https://doi.org/10.1021/acs.jpca.1c03073)
12. Fujisawa, J.-I., Kaneko, N., Hanaya, M. Interfacial Charge-Transfer Transitions in TiO₂ Nanoparticles Adsorbed with 4-Mercaptobenzoic Acid: Carboxy versus Thiol Anchor and Adsorbate-to-TiO₂ versus TiO₂-to-Adsorbate Charge Transfer (2021) Journal of Physical Chemistry C, 125 (24), pp. 13534-13541. [10.1021/acs.jpcc.1c00914](https://doi.org/10.1021/acs.jpcc.1c00914)
13. Fujisawa, J.-i., Hanaya, M. Interfacial charge-transfer transitions in SnO₂ functionalized with benzoic acid derivatives (2021) RSC Advances, 11 (34), pp. 20725-20729. [10.1039/d1ra03422g](https://doi.org/10.1039/d1ra03422g)
14. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al₂O₃ powder: Photocatalytic study (2020) Optical Materials, 106, art. no. 110013. [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
15. Fang, X., Zha, Y., Xu, L., Yu, Y., Ju, J. Progresses on the visiblelight photocatalytic performance of nanometer TiO₂ composite material (2020) Speciality Petrochemicals, 37 (3), pp. 76-82.
16. Fujisawa, J.-I. Interfacial charge-transfer transitions for direct charge-separation photovoltaics (2020) Energies, 13 (10), art. no. 2521. [10.3390/en13102521](https://doi.org/10.3390/en13102521)
17. Luciani, G., Imparato, C., Vitiello, G. Photosensitive hybrid nanostructured materials: The big challenges for sunlight capture (2020) Catalysts, 10 (1), art. no. 103. [10.3390/catal10010103](https://doi.org/10.3390/catal10010103)
18. Fujisawa, J.-I. Interfacial charge-transfer transitions between TiO₂ and indole (2020) Chemical Physics Letters, 739, art. no. 136974. [10.1016/j.cplett.2019.136974](https://doi.org/10.1016/j.cplett.2019.136974)

19. Lazić, V., Nedeljković, J.M. Organic-inorganic hybrid nanomaterials: Synthesis, characterization, and application (2019) *Nanomaterials Synthesis: Design, Fabrication and Applications*, pp. 419-449. [10.1016/B978-0-12-815751-0.00012-2](https://doi.org/10.1016/B978-0-12-815751-0.00012-2)
 20. Shi, J.-L., Hao, H., Lang, X. Phenol-TiO₂ complex photocatalysis: Visible light-driven selective oxidation of amines into imines in air (2019) *Sustainable Energy and Fuels*, 3 (2), pp. 488-498. [10.1039/c8se00527c](https://doi.org/10.1039/c8se00527c)
 21. Ergürhan, O., Parlak, C., Alver, Ö., Şenyel, M. Conformational and electronic properties of hydroquinone adsorption on C60 fullerenes: Doping atom, solvent and basis set effects (2018) *Journal of Molecular Structure*, 1167, pp. 227-231. [10.1016/j.molstruc.2018.04.092](https://doi.org/10.1016/j.molstruc.2018.04.092)
3. V. Đorđević, J. Dostanić, D. Lončarević, S. P. Ahrenkiel, **D. N. Sredojević**, N. Švrakić, M. Belić, J. M. Nedeljković, **Hybrid visible-light responsive Al₂O₃ particles**, *Chem. Phys. Lett.* 2017, 685, pp. 416-421.

Цитиран у:

1. Fakhri, H., Farzadkia, M. Nanophotocatalysts for biodegradation of materials (2021) *Biodegradation and Biodeterioration at the Nanoscale*, pp. 85-103. [10.1016/B978-0-12-823970-4.00005-1](https://doi.org/10.1016/B978-0-12-823970-4.00005-1)
 2. Barbieriková, Z., Lončarević, D., Papan, J., Vukoje, I.D., Stoilković, M., Phillip Ahrenkiel, S., Nedeljković, J.M. Photocatalytic hydrogen evolution over surface-modified titanate nanotubes by 5-aminosalicylic acid decorated with silver nanoparticles (2020) *Advanced Powder Technology*, 31 (12), pp. 4683-4690. [10.1016/j.apt.2020.11.001](https://doi.org/10.1016/j.apt.2020.11.001)
 3. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al₂O₃ powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013. [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
 4. Hadnadjev-Kostic, M., Vulic, T., Dostanic, J., Loncarevic, D. Design and application of various visible light responsive metal oxide photocatalysts (2020) *Handbook of Smart Photocatalytic Materials: Fundamentals, Fabrications and Water Resources Applications*, pp. 65-99. [10.1016/B978-0-12-819051-7.00003-8](https://doi.org/10.1016/B978-0-12-819051-7.00003-8)
 5. Smičiklas, I.D., Lazić, V.M., Živković, L.S., Porobić, S.J., Ahrenkiel, S.P., Nedeljković, J.M. Sorption of divalent heavy metal ions onto functionalized biogenic hydroxyapatite with caffeic acid and 3,4-dihydroxybenzoic acid (2019) *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, 54 (9), pp. 899-905. [10.1080/10934529.2019.1606575](https://doi.org/10.1080/10934529.2019.1606575)
 6. Lazić, V., Mihajlovski, K., Mraković, A., Illés, E., Stoilković, M., Ahrenkiel, S.P., Nedeljković, J.M. Antimicrobial activity of silver nanoparticles supported by magnetite (2019) *ChemistrySelect*, 4 (14), pp. 4018-4024. [10.1002/slct.201900628](https://doi.org/10.1002/slct.201900628)
 7. Lazić, V., Nedeljković, J.M. Organic-inorganic hybrid nanomaterials: Synthesis, characterization, and application (2019) *Nanomaterials Synthesis: Design, Fabrication and Applications*, pp. 419-449. [10.1016/B978-0-12-815751-0.00012-2](https://doi.org/10.1016/B978-0-12-815751-0.00012-2)
 8. Lončarević, D., Čupić, Ž. The perspective of using nanocatalysts in the environmental requirements and energy needs of industry (2019) *Industrial Applications of Nanomaterials*, pp. 91-122. [10.1016/B978-0-12-815749-7.00004-9](https://doi.org/10.1016/B978-0-12-815749-7.00004-9)
4. V. Bajić, B. Spremo-Potparević, L. Živković, A. Čabarkapa, J. Kotur-Stevuljević, E. Isenović, **D. Sredojević**, I. Vukoje, V. Lazić, S. P. Ahrenkiel, **Surface-modified TiO₂ nanoparticles with ascorbic acid: antioxidant properties and efficiency against DNA damage in vitro**, *Colloids and Surfaces B: Biointerfaces* 2017, 155, pp. 323–331.

Цитиран у:

1. Kim, M., Bazaid, M.O., Lee, H.J., Jang, S.S., Jang, Y.J., Kim, D.H. Chiral Inorganic Nanostructures from Achiral Platforms: A Universal Synthesis Route via Supramolecular Self-Assembly (2023) *Chemistry of Materials*, 35 (8), pp. 3073-3082. [10.1021/acs.chemmater.2c02833](https://doi.org/10.1021/acs.chemmater.2c02833)
2. Kirkland, D., Aardema, M.J., Battersby, R.V., Beevers, C., Burnett, K., Burzlaff, A., Czich, A., Donner, E.M., Fowler, P., Johnston, H.J., Krug, H.F., Pfuhler, S., Stankowski, L.F., Jr. A weight of evidence review of the genotoxicity of titanium dioxide (TiO₂) (2022) *Regulatory Toxicology and Pharmacology*, 136, art. no. 105263, . [10.1016/j.yrtph.2022.105263](https://doi.org/10.1016/j.yrtph.2022.105263)
3. Imparato, C., D'Errico, G., Macyk, W., Kobielusz, M., Vitiello, G., Aronne, A. Interfacial Charge Transfer Complexes in TiO₂-Enediol Hybrids Synthesized by Sol-Gel (2022) *Langmuir*, 38 (5), pp. 1821-1832. [10.1021/acs.langmuir.1c02939](https://doi.org/10.1021/acs.langmuir.1c02939)
4. Panic, A., Stanimirovic, J., Sudar-Milovanovic, E., Isenovic, E.R. Oxidative stress in obesity and insulin resistance (2022) *Exploration of Medicine*, 3 (1), pp. 58-70. [10.37349/emed.2022.00074](https://doi.org/10.37349/emed.2022.00074)
5. Lewandowska, H., Wójciuk, K., Karczmarczyk, U. Metal nanozymes: New horizons in cellular homeostasis regulation (2021) *Applied Sciences (Switzerland)*, 11 (19), art. no. 9019. [10.3390/app11199019](https://doi.org/10.3390/app11199019)
6. Younes, M., Aquilina, G., Castle, L., Engel, K.-H., Fowler, P., Frutos Fernandez, M.J., Fürst, P., Gundert-Remy, U., Gürtler, R., Husøy, T., Manco, M., Mennes, W., Moldeus, P., Passamonti, S., Shah, R., Waalkens-Berendsen, I., Wölflle, D., Corsini, E., Cubadda, F., De Groot, D., FitzGerald, R., Gunnare, S., Gutleb, A.C., Mast, J., Mortensen, A., Oomen, A., Piersma, A., Plichta, V., Ulbrich, B., Van Loveren, H., Benford, D., Bignami, M., Bolognesi, C., Crebelli, R., Dusinska, M., Marcon, F., Nielsen, E., Schlatter, J., Vleminckx, C., Barmaz, S., Carfi, M., Civitella, C., Giarola, A., Rincon, A.M., Serafimova, R., Smeraldi, C., Tarazona, J., Tard, A., Wright, M., EFSA Panel on Food Additives and Flavourings (FAF) Safety assessment of titanium dioxide (E171) as a food additive (2021) *EFSA Journal*, 19 (5), art. no. e06585. [10.2903/j.efsa.2021.6585](https://doi.org/10.2903/j.efsa.2021.6585)
7. Radovanovic, J., Banjac, K., Obradovic, M., Isenovic, E.R. Antioxidant enzymes and vascular diseases (2021) *Exploration of Medicine*, 2 (6), pp. 544-555. [10.37349/emed.2021.00070](https://doi.org/10.37349/emed.2021.00070)
8. Yan, B., Zhao, X., Chen, D., Cao, Y., Lv, C., Tu, J., Wang, X., Wu, Q. Enhanced photoelectrochemical biosensing performance for Au nanoparticle-polyaniline-TiO₂ heterojunction composites (2020) *RSC Advances*, 10 (72), pp. 43985-43993. [10.1039/d0ra06890j](https://doi.org/10.1039/d0ra06890j)
9. Zarubica, A., Ljupković, R., Papan, J., Vukoje, I., Porobić, S., Ahrenkiel, S.P., Nedeljković, J.M. Visible-light-responsive Al₂O₃ powder: Photocatalytic study (2020) *Optical Materials*, 106, art. no. 110013. [10.1016/j.optmat.2020.110013](https://doi.org/10.1016/j.optmat.2020.110013)
10. Weder, N., Probst, B., Sévery, L., Fernández-Terán, R.J., Beckord, J., Blacque, O., Tilley, S.D., Hamm, P., Osterwalder, J., Alberto, R. Mechanistic insights into photocatalysis and over two days of stable H₂ generation in electrocatalysis by a molecular cobalt catalyst immobilized on TiO₂ (2020) *Catalysis Science and Technology*, 10 (8), pp. 2549-2560. [10.1039/d0cy00330a](https://doi.org/10.1039/d0cy00330a)
11. Surya, C., Arul John, N.A., Pandiyan, V., Ravikumar, S., Amutha, P., Sobral, A.J.F.N., Krishnakumar, B. Costus speciosus leaf extract assisted CS-Pt-TiO₂ composites: Synthesis, characterization and their bio and photocatalytic applications (2019) *Journal of Molecular Structure*, 1195, pp. 787-795. [10.1016/j.molstruc.2019.06.030](https://doi.org/10.1016/j.molstruc.2019.06.030)
12. Lazić, V., Nedeljković, J.M. Organic-inorganic hybrid nanomaterials: Synthesis, characterization, and application (2019) *Nanomaterials Synthesis: Design, Fabrication and Applications*, pp. 419-449. [10.1016/B978-0-12-815751-0.00012-2](https://doi.org/10.1016/B978-0-12-815751-0.00012-2)
13. Mao, Z., Li, S., Zhang, L., Yao, M., Zhou, Z., Chen, M. The mTOR/GCLc/GSH Pathway Mediates the Dose-Dependent Bidirectional Regulation of ROS Induced by TiO₂ NPs in Neurogenic Cells (2019) *Oxidative Medicine and Cellular Longevity*, 2019, art. no. 7621561. [10.1155/2019/7621561](https://doi.org/10.1155/2019/7621561)
14. Zaric, B.L., Obradovic, M., Sudar-Milovanovic, E., Nedeljkovic, J., Lazic, V., Isenovic, E.R. Drug delivery systems for diabetes treatment (2019) *Current Pharmaceutical Design*, 25 (2), pp. 166-173. [10.2174/1381612825666190306153838](https://doi.org/10.2174/1381612825666190306153838)

15. Nikolic, I., Jasmin Lunter, D., Randjelovic, D., Zugic, A., Tadic, V., Markovic, B., Cekic, N., Zivkovic, L., Topalovic, D., Spremo-Potparevic, B., Daniels, R., Savic, S. Curcumin-loaded low-energy nanoemulsions as a prototype of multifunctional vehicles for different administration routes: Physicochemical and in vitro peculiarities important for dermal application (2018) *International Journal of Pharmaceutics*, 550 (1-2), pp. 333-346. [10.1016/j.ijpharm.2018.08.060](https://doi.org/10.1016/j.ijpharm.2018.08.060)
 16. D'Amato, C.A., Giovannetti, R., Zannotti, M., Rommozzi, E., Minicucci, M., Gunnella, R., Di Cicco, A. Band gap implications on Nano-TiO₂ surface modification with ascorbic acid for visible light-active polypropylene coated photocatalyst (2018) *Nanomaterials*, 8 (8), art. no. 599. [10.3390/nano8080599](https://doi.org/10.3390/nano8080599)
 17. Fujisawa, J.-I., Kaneko, N., Eda, T., Hanaya, M. Visible-light circular dichroism of colourless chiral organic compounds enabled by interfacial charge-transfer transitions (2018) *Chemical Communications*, 54 (61), pp. 8490-8493. [10.1039/c8cc04916e](https://doi.org/10.1039/c8cc04916e)
 18. Li, M., Chong, Y., Fu, P.P., Xia, Q., Croley, T.R., Lo, Y.M., Yin, J.-J. Effects of P25 TiO₂ Nanoparticles on the Free Radical-Scavenging Ability of Antioxidants upon Their Exposure to Simulated Sunlight (2017) *Journal of Agricultural and Food Chemistry*, 65 (45), pp. 9893-9901. [10.1021/acs.jafc.7b03407](https://doi.org/10.1021/acs.jafc.7b03407)
5. H.-L. Su, **D. N. Sredojević**, H. Bronstein, T. J. Marks, B. C. Schroeder, M. Al-Hashimi, **Bithiazole an Intriguing Electron Deficient Building for Plastic Electronic Applications**, *Macromolecular Rapid Comm.* 2017, 38, pp. 1600610.

Цитиран у:

1. Sun, W., Adachi, Y., Ohshita, J. Dicyanovinyl-capped thiazologermoles with moderate donor-acceptor interaction as visible photoluminescence turn-on sensors for primary amines (2023) *Dyes and Pigments*, 219, art. no. 111550, . [10.1016/j.dyepig.2023.111550](https://doi.org/10.1016/j.dyepig.2023.111550)
2. Ren, S., Zhang, W., Wang, Z., Yassar, A., Liao, Z., Yi, Z. Synergistic Use of All-Acceptor Strategies for the Preparation of an Organic Semiconductor and the Realization of High Electron Transport Properties in Organic Field-Effect Transistors (2023) *Polymers*, 15 (16), art. no. 3392. [10.3390/polym15163392](https://doi.org/10.3390/polym15163392)
3. Ji, M., Dong, C., Guo, Q., Du, M., Guo, Q., Sun, X., Wang, E., Zhou, E. Recent Advances in Organic Photovoltaic Materials Based on Thiazole-Containing Heterocycles (2023) *Macromolecular Rapid Communications*, 44 (13), art. no. 2300102. [10.1002/marc.202300102](https://doi.org/10.1002/marc.202300102)
4. Sun, W., Adachi, Y., Ohshita, J. Preparation of D-A copolymers based on dithiazologermole and germaindacenodithiazole as weak electron donor units (2023) *Polymer Journal*, 55 (7), pp. 797-805. [10.1038/s41428-023-00771-y](https://doi.org/10.1038/s41428-023-00771-y)
5. Patra, D., Zhan, X., Linthoinganbi, R., Muduli, S., Mishra, S., Liu, Y., Park, S. Synthesis and application of dual electron-deficient featured copolymers and their sequential fluorination for ambipolar organic thin film transistors (2023) *Journal of Materials Chemistry C*, 11 (4), pp. 1457-1463. [10.1039/d2tc04646f](https://doi.org/10.1039/d2tc04646f)
6. Uzelac, E.J., Badía-Domínguez, I., Gilman, S.J., Delgado, M.C.R., Rasmussen, S.C. Molecular Tuning in Diaryl-Capped Pyrrolo[2,3-d:5,4-d']bisthiazoles: Effects of Terminal Aryl Unit and Comparison to Dithieno[3,2-b:2',3'-d']pyrrole Analogues (2022) *Molecules*, 27 (19), art. no. 6638. [10.3390/molecules27196638](https://doi.org/10.3390/molecules27196638)
7. Lv, S.-Y., Li, Q.-Y., Li, B.-W., Wang, J.-Y., Mu, Y.-B., Li, L., Pei, J., Wan, X.-B. Thiazole-Flanked Thiazoloisindigo as a Monomer for Balanced Ambipolar Polymeric Field-effect Transistors (2022) *Chinese Journal of Polymer Science (English Edition)*, 40 (10), pp. 1131-1140. [10.1007/s10118-022-2731-3](https://doi.org/10.1007/s10118-022-2731-3)
8. Gunturkun, D., Isci, R., Sütay, B., Majewski, L.A., Faraji, S., Ozturk, T. Copolymers of 3-arylthieno[3,2-b]thiophenes bearing different substituents: Synthesis, electronic, optical, sensor and memory properties (2022) *European Polymer Journal*, 170, art. no. 111167. [10.1016/j.eurpolymj.2022.111167](https://doi.org/10.1016/j.eurpolymj.2022.111167)
9. Can, A., Choi, G.-S., Ozdemir, R., Park, S., Park, J.S., Lee, Y., Deneme, I., Mutlugun, E., Kim, C., Kim, B.J., Usta, H. Meso- π -Extended/Deficient BODIPYs and Low-Band-Gap Donor-Acceptor Copolymers for

- Organic Optoelectronics (2022) ACS Applied Polymer Materials, 4 (3), pp. 1991-2005. [10.1021/acsapm.1c01856](https://doi.org/10.1021/acsapm.1c01856)
10. Wu, T.-Y., Chang, J.-C., Lin, Y.-C., Yu, C.-C., Lee, P.-Y. N-(thiophen-2-ylmethylene)aniline- and N-(thiazol-2-ylmethylene)aniline-containing poly(2,5-dithienylpyrrole)s as anodically coloring polymers for high contrast electrochromic devices (2022) Organic Electronics, 101, art. no. 106420. [10.1016/j.orgel.2021.106420](https://doi.org/10.1016/j.orgel.2021.106420)
 11. Kbah, S.A.A., Ataol, Ç.Y., Yılmaz, İ. Illumination of Single Crystal Structure Containing Bithiazole and Methylcyclobutyl Groups by X-Ray Diffraction Method (2022) Journal of Pharmaceutical Negative Results, 13 (4), pp. 927-935. [10.47750/pnr.2022.13.04.126](https://doi.org/10.47750/pnr.2022.13.04.126)
 12. Patra, D., Comí, M., Zhang, X., Kini, G.P., Udayakantha, M., Kalin, A.J., Banerjee, S., Fang, L., Guo, X., Al-Hashimi, M. Design, synthesis and characterization of fused bithiazole- And dithiophene-based low bandgap thienylenevinylene copolymers (2021) Polymer Chemistry, 12 (41), pp. 5942-5951. [10.1039/d1py00773d](https://doi.org/10.1039/d1py00773d)
 13. Negash, A., Genene, Z., Eachambadi, R.T., Verstappen, P., Van den Brande, N., Kesters, J., D'Haen, J., Wang, E., Vandewal, K., Maes, W., Manca, J., Mammo, W., Admassie, S. Ladder-type high gap conjugated polymers based on indacenodithieno[3,2-b]thiophene and bithiazole for organic photovoltaics (2019) Organic Electronics, 74, pp. 211-217. [10.1016/j.orgel.2019.07.010](https://doi.org/10.1016/j.orgel.2019.07.010)
 14. Buckley, C., Thomas, S., McBride, M., Yuan, Z., Zhang, G., Bredas, J.-L., Reichmanis, E. Synergistic Use of Bithiazole and Pyridinyl Substitution for Effective Electron Transport Polymer Materials (2019) Chemistry of Materials, 31 (11), pp. 3957-3966. [10.1021/acs.chemmater.9b00208](https://doi.org/10.1021/acs.chemmater.9b00208)
 15. Bishop, S., Tremblay, M.-H., Gellé, A., Skene, W.G. Understanding Color Tuning and Reversible Oxidation of Conjugated Azomethines (2019) Journal of Physical Chemistry A, 123 (13), pp. 2687-2693. [10.1021/acs.jpca.8b10593](https://doi.org/10.1021/acs.jpca.8b10593)
 16. Shi, Y., Tang, Y., Yang, K., Qin, M., Wang, Y., Sun, H., Su, M., Lu, X., Zhou, M., Guo, X. Thiazolothienyl imide-based wide bandgap copolymers for efficient polymer solar cells (2019) Journal of Materials Chemistry C, 7 (36), pp. 11142-11151. [10.1039/c9tc03301g](https://doi.org/10.1039/c9tc03301g)
 17. Huo, J., Zou, W., Zhang, Y., Chen, W., Hu, X., Deng, Q., Chen, D. Facile preparation of bithiazole-based material for inkjet printed light-emitting electrochemical cell (2019) RSC Advances, 9 (11), pp. 6163-6168. [10.1039/c9ra00093c](https://doi.org/10.1039/c9ra00093c)
 18. Ly, J.T., Burnett, E.K., Thomas, S., Aljarb, A., Liu, Y., Park, S., Rosa, S., Yi, Y., Lee, H., Emrick, T., Russell, T.P., Brédas, J.-L., Briseno, A.L. Efficient Electron Mobility in an All-Acceptor Naphthalenediimide-Bithiazole Polymer Semiconductor with Large Backbone Torsion (2018) ACS Applied Materials and Interfaces, 10 (46), pp. 40070-40077. [10.1021/acsami.8b11234](https://doi.org/10.1021/acsami.8b11234)
 19. Yuan, Z., Buckley, C., Thomas, S., Zhang, G., Bargigia, I., Wang, G., Fu, B., Silva, C., Brédas, J.-L., Reichmanis, E. A Thiazole-Naphthalene Diimide Based n-Channel Donor-Acceptor Conjugated Polymer (2018) Macromolecules, 51 (18), pp. 7320-7328. [10.1021/acs.macromol.8b01829](https://doi.org/10.1021/acs.macromol.8b01829)
 20. Mirabal, R.A., Vanderzwet, L., Abuadas, S., Emmett, M.R., Schipper, D. Dehydration Polymerization for Poly(hetero)arene Conjugated Polymers (2018) Chemistry - A European Journal, 24 (47), pp. 12231-12235. [10.1002/chem.201800642](https://doi.org/10.1002/chem.201800642)
 21. Patra, D., Lee, J., Dey, S., Lee, J., Kalin, A.J., Putta, A., Fei, Z., McCarthy-Ward, T., Bazzi, H.S., Fang, L., Heeney, M., Yoon, M.-H., Al-Hashimi, M. Chalcogen Bridged Thieno- and Selenopheno[2,3- d:5,4- d']bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers (2018) Macromolecules, 51 (15), pp. 6076-6084. [10.1021/acs.macromol.8b00826](https://doi.org/10.1021/acs.macromol.8b00826)
 22. Čibová, A., Martinická, A., Magdolen, P., Zahradník, P., Cigáň, M., Uherek, M., Chorvát, D. Dicationic and monocationic benzobisthiazolium salts as potential NLO chromophores (2018) Dyes and Pigments, 149, pp. 597-611. [10.1016/j.dyepig.2017.11.015](https://doi.org/10.1016/j.dyepig.2017.11.015)
 23. Faradhiyani, A., Zhang, Q., Maruyama, K., Kuwabara, J., Yasuda, T., Kanbara, T. Synthesis of bithiazole-based semiconducting polymers via Cu-catalysed aerobic oxidative coupling (2018) Materials Chemistry Frontiers, 2 (7), pp. 1306-1309. [10.1039/c7qm00584a](https://doi.org/10.1039/c7qm00584a)

24. Green, J.P., Cryer, S.J., Marafie, J., White, A.J.P., Heeney, M. Synthesis of a Luminescent Arsol[2,3-d:5,4-d']bis(thiazole) Building Block and Comparison to Its Phosphole Analogue (2017) *Organometallics*, 36 (14), pp. 2632-2636. [10.1021/acs.organomet.7b00241](https://doi.org/10.1021/acs.organomet.7b00241)
6. D. Patra, J. Lee, J. Lee, **D. N. Sredojević**, A. J. P. White, H. S. Bazzi, E. N. Brothers, M. Heeney, L. Fang, M.-Han Yoon and M. Al-Hashimi, **Synthesis of low band gap polymers based on pyrrolo[3,2-d:4,5-d']bisthiazole (PBTz) and thienylenevinylene (TV) for organic thin-film transistors (OTFTs)**, *J. Mater. Chem. C* 2017, 5, pp. 2247-2258.

Цитиран у:

1. Patra, D., Zhan, X., Linthoinganbi, R., Muduli, S., Mishra, S., Liu, Y., Park, S. Synthesis and application of dual electron-deficient featured copolymers and their sequential fluorination for ambipolar organic thin film transistors (2023) *Journal of Materials Chemistry C*, 11 (4), pp. 1457-1463. [10.1039/d2tc04646f](https://doi.org/10.1039/d2tc04646f)
2. Uzelac, E.J., Badía-Domínguez, I., Gilman, S.J., Delgado, M.C.R., Rasmussen, S.C. Molecular Tuning in Diaryl-Capped Pyrrolo[2,3-d:5,4-d']bisthiazoles: Effects of Terminal Aryl Unit and Comparison to Dithieno[3,2-b:2',3'-d]pyrrole Analogues (2022) *Molecules*, 27 (19), art. no. 6638. [10.3390/molecules27196638](https://doi.org/10.3390/molecules27196638)
3. Attar, S., Yang, R., Chen, Z., Ji, X., Comí, M., Banerjee, S., Fang, L., Liu, Y., Al-Hashimi, M. Thiazole fused S,N-heteroacene step-ladder polymeric semiconductors for organic transistors (2022) *Chemical Science*, 13 (41), pp. 12034-12044. [10.1039/d2sc04661j](https://doi.org/10.1039/d2sc04661j)
4. Sun, W., Adachi, Y., Ohshita, J. Synthesis of thiazole-condensed germoles with enhanced electron-deficient properties (2022) *Dyes and Pigments*, 203, art. no. 110333. [10.1016/j.dyepig.2022.110333](https://doi.org/10.1016/j.dyepig.2022.110333)
5. Patra, D., Comí, M., Zhang, X., Kini, G.P., Udayakantha, M., Kalin, A.J., Banerjee, S., Fang, L., Guo, X., Al-Hashimi, M. Design, synthesis and characterization of fused bithiazole- And dithiophene-based low bandgap thienylenevinylene copolymers (2021) *Polymer Chemistry*, 12 (41), pp. 5942-5951. [10.1039/d1py00773d](https://doi.org/10.1039/d1py00773d)
6. Mittal, P., Yadav, S., Negi, S. Advancements for organic thin film transistors: Structures, materials, performance parameters, influencing factors, models, fabrication, reliability and applications (2021) *Materials Science in Semiconductor Processing*, 133, art. no. 105975. [10.1016/j.mssp.2021.105975](https://doi.org/10.1016/j.mssp.2021.105975)
7. Dey, S., Attar, S., Manley, E.F., Moncho, S., Brothers, E.N., Bazzi, H.S., Bronstein, H., Marks, T.J., Heeney, M., Schroeder, B.C., Al-Hashimi, M. Transition-Metal-Free Homopolymerization of Pyrrolo[2,3-d:5,4-d']bisthiazoles via Nucleophilic Aromatic Substitution (2021) *ACS Applied Materials and Interfaces*, 13 (34), pp. 41094-41101. [10.1021/acsami.1c10858](https://doi.org/10.1021/acsami.1c10858)
8. Comí, M., Patra, D., Yang, R., Chen, Z., Harbuzaru, A., Wubulikasimu, Y., Banerjee, S., Ponce Ortiz, R., Liu, Y., Al-Hashimi, M. Alkoxy functionalized benzothiadiazole based donor-acceptor conjugated copolymers for organic field-effect transistors (2021) *Journal of Materials Chemistry C*, 9 (15), pp. 5113-5123. [10.1039/d1tc00079a](https://doi.org/10.1039/d1tc00079a)
9. An, L., Huang, Y., Wang, X., Liang, Z., Li, J., Tong, J. Fluorination effect for highly conjugated alternating copolymers involving thienylenevinylene-thiophene-flanked benzodithiophene and benzothiadiazole subunits in photovoltaic application (2020) *Polymers*, 12 (3), art. no. 504. [10.3390/polym12030504](https://doi.org/10.3390/polym12030504)
10. Rasmussen, S.C., Uzelac, E.J., Culver, E.W. Tricyclic-fused bithiophenes and related analogues: Important building blocks for conjugated materials (2020) *Advances in Heterocyclic Chemistry*, 130, pp. 75-144. [10.1016/bs.aihch.2019.10.002](https://doi.org/10.1016/bs.aihch.2019.10.002)
11. Strakova, K., Assies, L., Goujon, A., Piazzolla, F., Humeniuk, H.V., Matile, S. Dithienothiophenes at Work: Access to Mechanosensitive Fluorescent Probes, Chalcogen-Bonding Catalysis, and beyond (2019) *Chemical Reviews*, 119 (19), pp. 10977-11005. [10.1021/acs.chemrev.9b00279](https://doi.org/10.1021/acs.chemrev.9b00279)
12. Feng, K., Zhang, X., Wu, Z., Shi, Y., Su, M., Yang, K., Wang, Y., Sun, H., Min, J., Zhang, Y., Cheng, X., Woo, H.Y., Guo, X. Fluorine-Substituted Dithienylbenzodiiimide-Based n-Type Polymer Semiconductors

- for Organic Thin-Film Transistors (2019) *ACS Applied Materials and Interfaces*, 11 (39), pp. 35924-35934. [10.1021/acsami.9b13138](https://doi.org/10.1021/acsami.9b13138)
13. Yeh, Y.-M., Huang, C.-H., Peng, S.-H., Chang, C.-C., Hsu, C.-S. Synthesis of novel conjugated polymers based on benzo[1,2-*d*:4,5-*d'*]-bis([1,2,3]triazole) for applications in organic field-effect transistors (2019) *Polymer Chemistry*, 10 (12), pp. 1471-1479. [10.1039/c8py01526k](https://doi.org/10.1039/c8py01526k)
 14. Barlóg, M., Kulai, I., Ji, X., Bhuvanesh, N., Dey, S., Sliwinski, E.P., Bazzi, H.S., Fang, L., Al-Hashimi, M. Synthesis, characterization and crystal structures of novel fluorinated di(thiazolyl)benzene derivatives (2019) *Organic Chemistry Frontiers*, 6 (6), pp. 780-790. [10.1039/c9qo00044e](https://doi.org/10.1039/c9qo00044e)
 15. Shi, Y., Tang, Y., Yang, K., Qin, M., Wang, Y., Sun, H., Su, M., Lu, X., Zhou, M., Guo, X. Thiazolothienyl imide-based wide bandgap copolymers for efficient polymer solar cells (2019) *Journal of Materials Chemistry C*, 7 (36), pp. 11142-11151. [10.1039/c9tc03301g](https://doi.org/10.1039/c9tc03301g)
 16. Geng, Y., Tang, A., Tajima, K., Zeng, Q., Zhou, E. Conjugated materials containing dithieno[3,2-*B*:2',3'-*d*] pyrrole and its derivatives for organic and hybrid solar cell applications (2019) *Journal of Materials Chemistry A*, 7 (1), pp. 64-96. [10.1039/c8ta09383k](https://doi.org/10.1039/c8ta09383k)
 17. Wadhwa, P., Kumar, S., Kumar, T.J.D., Shukla, A., Kumar, R. Bandgap tunability in a one-dimensional system (2018) *Condensed Matter*, 3 (4), art. no. 34, pp. 1-10. [10.3390/condmat3040034](https://doi.org/10.3390/condmat3040034)
 18. Chiou, D.-Y., Su, Y.-C., Hung, K.-E., Hsu, J.-Y., Hsu, T.-G., Wu, T.-Y., Cheng, Y.-J. Thiophene-Vinylene-Thiophene-Based Donor-Acceptor Copolymers with Acetylene-Inserted Branched Alkyl Side Chains to Achieve High Field-Effect Mobilities (2018) *Chemistry of Materials*, 30 (21), pp. 7611-7622. [10.1021/acs.chemmater.8b02801](https://doi.org/10.1021/acs.chemmater.8b02801)
 19. Patra, D., Budiawan, W., Huang, T.-Y., Wei, K.-H., Wang, P.-C., Ho, K.-C., Al-Hashimi, M., Chu, C.-W. Enhanced Organic Solar Cell Performance by Lateral Side Chain Engineering on Benzodithiophene-Based Small Molecules (2018) *ACS Applied Energy Materials*, 1 (8), pp. 3684-3692. [10.1021/acsae.8b00415](https://doi.org/10.1021/acsae.8b00415)
 20. Patra, D., Lee, J., Dey, S., Lee, J., Kalin, A.J., Putta, A., Fei, Z., McCarthy-Ward, T., Bazzi, H.S., Fang, L., Heeney, M., Yoon, M.-H., Al-Hashimi, M. Chalcogen Bridged Thieno- and Selenopheno[2,3-*d*:5,4-*d'*]bisthiazole and Their Diketopyrrolopyrrole Based Low-Bandgap Copolymers (2018) *Macromolecules*, 51 (15), pp. 6076-6084. [10.1021/acs.macromol.8b00826](https://doi.org/10.1021/acs.macromol.8b00826)
 21. Cetin, A., Korkmaz, A., Bildirici, I. A novel oligo-pyrazole-based thin film: synthesis, characterization, optical and morphological properties (2018) *Colloid and Polymer Science*, 296 (7), pp. 1249-1257. [10.1007/s00396-018-4342-7](https://doi.org/10.1007/s00396-018-4342-7)
 22. Liu, F., Hou, T., Xu, X., Sun, L., Zhou, J., Zhao, X., Zhang, S. Recent Advances in Nonfullerene Acceptors for Organic Solar Cells (2018) *Macromolecular Rapid Communications*, 39 (3), art. no. 1700555, . [10.1002/marc.201700555](https://doi.org/10.1002/marc.201700555)
 23. Uzelac, E.J., McCausland, C.B., Rasmussen, S.C. Pyrrolo[2,3-*d*:5,4-*d'*]bisthiazoles: Alternate Synthetic Routes and a Comparative Study to Analogous Fused-Ring Bithiophenes (2018) *Journal of Organic Chemistry*, 83 (2), pp. 664-671. [10.1021/acs.joc.7b02570](https://doi.org/10.1021/acs.joc.7b02570)
7. R. K. Raju, **D. N. Sredojević**, S. Moncho, E. N. Brothers, **Nickel Bis(diselenolene) as a Catalyst for Olefin Purification**, *Inorganic Chemistry* 2016, 55 (20), pp. 10182–10191.

Цитиран у:

1. Pintus, A., Arca, M. 1,2-Diselenolene ligands and related metal complexes: Design, synthesis and applications (2022) *Coordination Chemistry Reviews*, 464, art. no. 214444. [10.1016/j.ccr.2022.214444](https://doi.org/10.1016/j.ccr.2022.214444)
2. Deng, X., Zheng, S.-L., Zhong, Y.-H., Hu, J., Chung, L.-H., He, J. Conductive MOFs based on Thiol-functionalized Linkers: Challenges, Opportunities, and Recent Advances (2022) *Coordination Chemistry Reviews*, 450, art. no. 214235. [10.1016/j.ccr.2021.214235](https://doi.org/10.1016/j.ccr.2021.214235)

3. Luedecke, K.M., Wang, Y., Tran, P.M., Threlkeld, H.L., Wei, P., Xie, Y., Schaefer, H.F., Robinson, G.H. C5 Metalation of Imidazole-Based Monothiolates en Route to Selenothiolates (2020) *Organometallics*, 39 (23), pp. 4178-4182. [10.1021/acs.organomet.0c00201](https://doi.org/10.1021/acs.organomet.0c00201)
4. Najafian, A., Cundari, T.R. Computational study of acetylene hydration by bio-inspired group six catalyst models (2018) *Polyhedron*, 154, pp. 114-122. [10.1016/j.poly.2018.07.044](https://doi.org/10.1016/j.poly.2018.07.044)
5. Shibl, M.F., Moncho, S., Brothers, E.N. What Happens Without Nickel? Cyclization Reactions of Ethylene with Ethanedithial and Related Molecules (2018) *Journal of Computational Chemistry*, 39 (18), pp. 1158-1167. [10.1002/jcc.25142](https://doi.org/10.1002/jcc.25142)
6. Schlimgen, A.W., Mazziotti, D.A. Static and Dynamic Electron Correlation in the Ligand Noninnocent Oxidation of Nickel Dithiolates (2017) *Journal of Physical Chemistry A*, 121 (48), pp. 9377-9384. [10.1021/acs.jpca.7b09567](https://doi.org/10.1021/acs.jpca.7b09567)
7. Mendecki, L., Ko, M., Zhang, X., Meng, Z., Mirica, K.A. Porous Scaffolds for Electrochemically Controlled Reversible Capture and Release of Ethylene (2017) *Journal of the American Chemical Society*, 139 (48), pp. 17229-17232. [10.1021/jacs.7b08102](https://doi.org/10.1021/jacs.7b08102)
8. **D. N. Sredojević**, R. K. Raju, S. Moncho, E. N. Brothers, **Mechanism of Ethylene Addition to Nickel Bis(oxothiolene) and Nickel Bis(dioxolene) Complexes**, *J. Phys. Chem. A* 2016, 120 (38), pp. 7561–7568.

Цитиран у:

1. Pitchaimani, J., Ni, S.-F., Dang, L. Metal dithiolene complexes in olefin addition and purification, small molecule adsorption, H₂ evolution and CO₂ reduction (2020) *Coordination Chemistry Reviews*, 420, art. no. 213398. [10.1016/j.ccr.2020.213398](https://doi.org/10.1016/j.ccr.2020.213398)
2. Shibl, M.F., Moncho, S., Brothers, E.N. What Happens Without Nickel? Cyclization Reactions of Ethylene with Ethanedithial and Related Molecules (2018) *Journal of Computational Chemistry*, 39 (18), pp. 1158-1167. [10.1002/jcc.25142](https://doi.org/10.1002/jcc.25142)
3. Mahler, A., Janesko, B.G., Moncho, S., Brothers, E.N. Why are GGAs so accurate for reaction kinetics on surfaces? Systematic comparison of hybrid vs. nonhybrid DFT for representative reactions (2017) *Journal of Chemical Physics*, 146 (23), art. no. 234103. [10.1063/1.4986404](https://doi.org/10.1063/1.4986404)
9. P. Krokidas, M. Castier, S. E. Moncho, **D. N. Sredojević**, E. N. Brothers, H. T. Kwon, H-K. Jeong, J. S. Lee, I. Economou, **ZIF-67 Framework: A Promising New Candidate for Propylene/Propane Separations - Experimental Data and Molecular Simulations**, *J. Phys. Chem. C*. 2016, 120(15), pp. 8116-8124.

Цитиран у:

1. Mor, J., Nellyil, R.B., Sharma, S.K. Fine-Tuning of the Pore Aperture and Framework Flexibility of Mixed-Metal (Zn/Co) Zeolitic Imidazolate Framework-8: An In Situ Positron Annihilation Lifetime Spectroscopy Study under CO₂ Gas Pressure (2023) *Langmuir*, 39 (29), pp. 10056-10065. [10.1021/acs.langmuir.3c00996](https://doi.org/10.1021/acs.langmuir.3c00996)
2. Gao, L., Kou, D., Ma, W., Zhang, S. Biomimetic Metal-Organic Framework-Based Photonic Crystal Sensor for Highly Sensitive Visual Detection and Effective Discrimination of Benzene Vapor (2023) *ACS Applied Materials and Interfaces*, 15 (25), pp. 30606-30618. [10.1021/acsami.3c03673](https://doi.org/10.1021/acsami.3c03673)
3. Vu, K.B., Hoang, T.K.A., Tran, V.A., Phung, T.K., Truong, N.L.P. Elastic analysis of ZIF-8 and ZIF-8 filled with hydrogen molecules by density functional theory (2023) *Materials Today Communications*, 35, art. no. 105970, . [10.1016/j.mtcomm.2023.105970](https://doi.org/10.1016/j.mtcomm.2023.105970)

4. Alkandari, S.H., Lightfoot, J., Castro-Dominguez, B. Asymmetric membranes for gas separation: interfacial insights and manufacturing (2023) *RSC Advances*, 13 (21), pp. 14198-14209. [10.1039/d3ra00995e](https://doi.org/10.1039/d3ra00995e)
5. Sun, H., Wang, F., Li, X., Caro, J., Meng, H., Wang, N., An, Q.-F. Facile Fabrication of a Continuous ZIF-67 Membrane for Efficient Azeotropic Organic Solvent Mixture Separation (2023) *Angewandte Chemie - International Edition*, 62 (15), art. no. e202300262. [10.1002/anie.202300262](https://doi.org/10.1002/anie.202300262)
6. Yang, R., Zhao, F., Ullah, S., Chen, X., Ma, J., Gao, Y., Wang, Y., Luo, G. Correlation of adsorbent cavity structure with adsorption behavior and interaction of long-chain α -olefin/paraffin on microporous adsorbents (2023) *Nano Research*, 16 (4), pp. 5721-5732. [10.1007/s12274-022-5231-4](https://doi.org/10.1007/s12274-022-5231-4)
7. Wang, X., Xu, Y., An, X., Xu, E., Liu, J., Zhou, C., Li, W., Chen, Y., Wang, G. Hybrid high performance supercapacitor based on zeolitic imidazolate frameworks-67-derived nano-structure NiCo₂S₄ (2023) *International Journal of Hydrogen Energy*, 48 (27), pp. 9945-9956. [10.1016/j.ijhydene.2022.12.150](https://doi.org/10.1016/j.ijhydene.2022.12.150)
8. Mor, J., Utpalla, P., Mukherjee, S., Sharma, S.K., Dutta, D. Gate Opening Induced High Pore Volume Expansion in Flexible Zeolitic Imidazole Frameworks during CO₂ Adsorption: A Direct Observation Using Positron Annihilation Spectroscopy (2023) *Journal of Physical Chemistry C*, 127 (5), pp. 2160-2172. [10.1021/acs.jpcc.2c07284](https://doi.org/10.1021/acs.jpcc.2c07284)
9. Delgado-Marín, J.J., Rendón-Patiño, A., Velisoju, V.K., Kumar, G.S., Zambrano, N., Rueping, M., Gascón, J., Castaño, P., Narciso, J., Ramos-Fernandez, E.V. Leaching in Specific Facets of ZIF-67 and ZIF-L Zeolitic Imidazolate Frameworks During the CO₂ Cycloaddition with Epichlorohydrin (2023) *Chemistry of Materials*, 35 (2), pp. 692-699. [10.1021/acs.chemmater.2c03374](https://doi.org/10.1021/acs.chemmater.2c03374)
10. Xu, H., Zhu, J., Wu, X., Cheng, Y., Wang, D., Cai, D. Recognition and quantitative analysis for six phthalate esters (PAEs) through functionalized ZIF-67@Ag nanowires as surface-enhanced Raman scattering substrate (2023) *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 284, art. no. 121735, . [10.1016/j.saa.2022.121735](https://doi.org/10.1016/j.saa.2022.121735)
11. Leonel, G.J., Lennox, C.B., Marrett, J.M., Frišćić, T., Navrotsky, A. Crystallographic and Compositional Dependence of Thermodynamic Stability of [Co(II), Cu(II), and Zn(II)] in 2-Methylimidazole-Containing Zeolitic Imidazolate Frameworks (2023) *Chemistry of Materials*. [10.1021/acs.chemmater.3c01464](https://doi.org/10.1021/acs.chemmater.3c01464)
12. Pérez-Botella, E., Valencia, S., Rey, F. Zeolites in Adsorption Processes: State of the Art and Future Prospects (2022) *Chemical Reviews*, 122 (24), pp. 17647-17695. [10.1021/acs.chemrev.2c00140](https://doi.org/10.1021/acs.chemrev.2c00140)
13. Wang, X., Ma, Q., Cheng, J., He, D., Zhang, L., Lu, P., Jin, H., Choi, J., Li, Y. Crystallization-controlled defect minimization of a ZIF-67 membrane for the robust separation of propylene and propane (2022) *Journal of Membrane Science*, 664, art. no. 121072. [10.1016/j.memsci.2022.121072](https://doi.org/10.1016/j.memsci.2022.121072)
14. Ektefa, F., Towfighi Darian, J., Soltanali, S. Performance of BEA, FAU, LTL, MFI, and MOR zeolites in the removal of ethyl mercaptan traces from natural gas by Monte Carlo molecular simulation (2022) *Applied Surface Science*, 605, art. no. 154833. [10.1016/j.apsusc.2022.154833](https://doi.org/10.1016/j.apsusc.2022.154833)
15. Zhang, Y., Lu, C., Lin, Q., Yu, J., Zheng, B., Chen, J., Zhuo, L., Weng, Z., Wang, Y., Wang, H., Cheng, H., Wang, J. Metal-Organic-Frameworks-Isolated Au Nanobipyramids as Synergetic Surface-Enhanced-Raman-Scattering Substrates (2022) *ACS Materials Letters*, 4 (12), pp. 2506-2514. [10.1021/acsmaterialslett.2c00896](https://doi.org/10.1021/acsmaterialslett.2c00896)
16. Utpalla, P., Mor, J., Bahadur, J., Sharma, S.K. Hierarchical nanostructure investigation of Zeolitic Imidazolate Frameworks (ZIF-8 and ZIF-67) multilayers using depth dependent Doppler broadening spectroscopy (2022) *Journal of Solid State Chemistry*, 316, art. no. 123601. [10.1016/j.jssc.2022.123601](https://doi.org/10.1016/j.jssc.2022.123601)
17. Li, M.M., Yang, C.C., Zhou, Y.T., Cui, C.J. Clarifying the zeolitic imidazolate framework effect on superior electrochemical properties of hydrogen storage alloys (2022) *Electrochimica Acta*, 430, art. no. 141054. [10.1016/j.electacta.2022.141054](https://doi.org/10.1016/j.electacta.2022.141054)
18. Benchaabane, M.-E.A., Trierweiler Gonçalves, G., Bloch, E., Paillaud, J.-L., Daou, T.J., Bourrelly, S., Chaplais, G., Llewellyn, P.L. An initial evaluation of the thermodynamic or kinetic separation performance of cation-exchanged LTA zeolites for mixtures of propane and propylene (2022) *Microporous and Mesoporous Materials*, 344, art. no. 112211. [10.1016/j.micromeso.2022.112211](https://doi.org/10.1016/j.micromeso.2022.112211)

19. Timofeeva, M.N., Lukoyanov, I.A., Panchenko, V.N., Shefer, K.I., Mel'gunov, M.S., Bhadra, B.N., Jhung, S.H. Tuning the catalytic properties for cycloaddition of CO₂ to propylene oxide on zeolitic-imidazolate frameworks through variation of structure and chemical composition (2022) *Molecular Catalysis*, 529, art. no. 112530, . [10.1016/j.mcat.2022.112530](https://doi.org/10.1016/j.mcat.2022.112530)
20. Chen, H., Li, C., Liu, L., Meng, B., Yang, N., Sunarso, J., Liu, L., Liu, S., Wang, X. ZIF-67 membranes supported on porous ZnO hollow fibers for hydrogen separation from gas mixtures (2022) *Journal of Membrane Science*, 653, art. no. 120550. [10.1016/j.memsci.2022.120550](https://doi.org/10.1016/j.memsci.2022.120550)
21. Krokidas, P., Karozis, S., Moncho, S., Giannakopoulos, G., Brothers, E.N., Kainourgiakis, M.E., Economou, I.G., Steriotis, T.A. Data mining for predicting gas diffusivity in zeolitic-imidazolate frameworks (ZIFs) (2022) *Journal of Materials Chemistry A*, 10 (26), pp. 13697-13703. [10.1039/d2ta02624d](https://doi.org/10.1039/d2ta02624d)
22. Zhao, Z., Ding, L., Hinterding, R., Mundstock, A., Belke, C., Haug, R.J., Wang, H., Feldhoff, A. MXene assisted preparation of well-intergrown ZIF-67 membrane for helium separation (2022) *Journal of Membrane Science*, 652, art. no. 120432. [10.1016/j.memsci.2022.120432](https://doi.org/10.1016/j.memsci.2022.120432)
23. Wang, P., Zhu, C. Passively Q-Switched and Mode-Locked Fiber Laser Based on a Zeolitic Imidazolate Framework-67 Saturable Absorber (2022) *Frontiers in Physics*, 10, art. no. 926344. [10.3389/fphy.2022.926344](https://doi.org/10.3389/fphy.2022.926344)
24. Sun, Y., Tian, L., Qiao, Z., Geng, C., Guo, X., Zhong, C. Surface modification of bilayer structure on metal-organic frameworks towards mixed matrix membranes for efficient propylene/propane separation (2022) *Journal of Membrane Science*, 648, art. no. 120350. [10.1016/j.memsci.2022.120350](https://doi.org/10.1016/j.memsci.2022.120350)
25. Chuah, C.Y., Bae, T.-H. Recent Advances in Mixed-Matrix Membranes for Light Hydrocarbon (C1–C3) Separation (2022) *Membranes*, 12 (2), art. no. 201. [10.3390/membranes12020201](https://doi.org/10.3390/membranes12020201)
26. Liu, P., Chen, K., Chen, Y., Wang, X., Yang, J., Li, L., Li, J. Linker micro-regulation of a Hofmann-based metal-organic framework for efficient propylene/propane separation† (2022) *Inorganic Chemistry Frontiers*, 9 (6), pp. 1082-1090. [10.1039/d1qi01562a](https://doi.org/10.1039/d1qi01562a)
27. Lee, D.T., Corkery, P., Park, S., Jeong, H.-K., Tsapatsis, M. Zeolitic Imidazolate Framework Membranes: Novel Synthesis Methods and Progress Toward Industrial Use (2022) *Annual Review of Chemical and Biomolecular Engineering*, 13, pp. 529-555. [10.1146/annurev-chembioeng-092320-120148](https://doi.org/10.1146/annurev-chembioeng-092320-120148)
28. Li, Z., Jiang, G., Wang, Y., Tan, M., Cao, Y., Tian, E., Zhang, L., Chen, X., Zhao, M., Jiang, Y., Luo, Y., Zheng, Y., Ma, Z., Wang, D., Fu, W., Liu, K., Tang, C., Jiang, J. Detecting residual chemical disinfectant using an atomic Co-Nx-C anchored neuronal-like carbon catalyst modified amperometric sensor (2022) *Environmental Science: Nano*. [10.1039/d1en01111a](https://doi.org/10.1039/d1en01111a)
29. Thanasekaran, P., Su, C.-H., Liu, Y.-H., Lu, K.-L. Hydrophobic Metal–Organic Frameworks and Derived Composites for Microelectronics Applications (2021) *Chemistry - A European Journal*, 27 (67), pp. 16543-16563. [10.1002/chem.202100241](https://doi.org/10.1002/chem.202100241)
30. Fan, H., Peng, M., Strauss, I., Mundstock, A., Meng, H., Caro, J. MOF-in-COF molecular sieving membrane for selective hydrogen separation (2021) *Nature Communications*, 12 (1), art. no. 38. [10.1038/s41467-020-20298-7](https://doi.org/10.1038/s41467-020-20298-7)
31. Iacomì, P., Maurin, G. ResponZIF Structures: Zeolitic Imidazolate Frameworks as Stimuli-Responsive Materials (2021) *ACS Applied Materials and Interfaces*, 13 (43), pp. 50602-50642. [10.1021/acsami.1c12403](https://doi.org/10.1021/acsami.1c12403)
32. Sun, Y., Zhang, Z., Tian, L., Huang, H., Geng, C., Guo, X., Qiao, Z., Zhong, C. Confined Ionic Liquid-Built Gas Transfer Pathways for Efficient Propylene/Propane Separation (2021) *ACS Applied Materials and Interfaces*, 13 (41), pp. 49050-49057. [10.1021/acsami.1c15108](https://doi.org/10.1021/acsami.1c15108)
33. Polyukhov, D.M., Poryvaev, A.S., Sukhikh, A.S., Gromilov, S.A., Fedin, M.V. Fine-Tuning Window Apertures in ZIF-8/67 Frameworks by Metal Ions and Temperature for High-Efficiency Molecular Sieving of Xylenes (2021) *ACS Applied Materials and Interfaces*, 13 (34), pp. 40830-40836. [10.1021/acsami.1c12166](https://doi.org/10.1021/acsami.1c12166)

34. Narciso, J., Ramos-Fernandez, E.V., Delgado-Marín, J.J., Affolter, C.W., Olsbye, U., Redekop, E.A. New route for the synthesis of Co-MOF from metal substrates (2021) *Microporous and Mesoporous Materials*, 324, art. no. 111310. [10.1016/j.micromeso.2021.111310](https://doi.org/10.1016/j.micromeso.2021.111310)
35. Daglar, H., Erucar, I., Keskin, S. Recent advances in simulating gas permeation through MOF membranes (2021) *Materials Advances*, 2 (16), pp. 5300-5317. [10.1039/d1ma00026h](https://doi.org/10.1039/d1ma00026h)
36. Sayyad, P.W., Farooqui, A.A., Ingle, N.N., Al-Gahouari, T., Bodkhe, G.A., Mahadik, M.M., Shirsat, S.M., Shirsat, M.D. High carrier mobility and environmentally stable microporous zeolite imidazolate framework (ZIF-67): A field-effect transistor (FET) approach (2021) *Chemical Physics Letters*, 776, art. no. 138690. [10.1016/j.cplett.2021.138690](https://doi.org/10.1016/j.cplett.2021.138690)
37. Ehrling, S., Senkovska, I., Bon, V., Nguyen, K.D., Miura, H., Kaskel, S. Flexibility and switchable porosity in metal-organic frameworks: Phenomena, characterization and functions (2021) *Comprehensive Coordination Chemistry III*, 1-9, pp. 328-375. [10.1016/B978-0-08-102688-5.00115-X](https://doi.org/10.1016/B978-0-08-102688-5.00115-X)
38. Song, J., He, B., Shen, H., Wu, Z., Yu, J., Lei, W., Xia, X., Du, P., Hao, Q. Rational Design of a ZIF-67/Cobalt-Glycolate Heterostructure with Improved Conductivity for High Cycling Stability and High-Capacity Lithium Storage (2021) *ChemElectroChem*, 8 (13), pp. 2431-2441. [10.1002/celec.202100444](https://doi.org/10.1002/celec.202100444)
39. Abdul Hamid, M.R., Shean Yaw, T.C., Mohd Tohir, M.Z., Wan Abdul Karim Ghani, W.A., Sutrisna, P.D., Jeong, H.-K. Zeolitic imidazolate framework membranes for gas separations: Current state-of-the-art, challenges, and opportunities (2021) *Journal of Industrial and Engineering Chemistry*, 98, pp. 17-41. [10.1016/j.jiec.2021.03.047](https://doi.org/10.1016/j.jiec.2021.03.047)
40. Jeong, H.-K. Metal-organic framework membranes: Unprecedented opportunities for gas separations (2021) *AIChE Journal*, 67 (6), art. no. e17258. [10.1002/aic.17258](https://doi.org/10.1002/aic.17258)
41. Xiang, W., Shen, C., Lu, Z., Chen, S., Li, X., Zou, R., Zhang, Y., Liu, C.-J. CO₂ cycloaddition over ionic liquid immobilized hybrid zeolitic imidazolate frameworks: Effect of Lewis acid/base sites (2021) *Chemical Engineering Science*, 233, art. no. 116429. [10.1016/j.ces.2020.116429](https://doi.org/10.1016/j.ces.2020.116429)
42. Erdős, M., Geerdink, D.F., Martin-Calvo, A., Pidko, E.A., van den Broeke, L.J.P., Calero, S., Vlugt, T.J.H., Moulτος, O.A. In silico screening of zeolites for high-pressure hydrogen drying (2021) *ACS Applied Materials and Interfaces*, 13 (7), pp. 8383-8394. [10.1021/acsami.0c20892](https://doi.org/10.1021/acsami.0c20892)
43. Chen, K., Guo, H.-N., Li, W.-Q., Wang, Y.-J. MOF-derived Core-Shell CoP@NC@TiO₂ Composite as a High-Performance Anode Material for Li-ion Batteries (2021) *Chemistry - An Asian Journal*, 16 (4), pp. 322-328. [10.1002/asia.202001150](https://doi.org/10.1002/asia.202001150)
44. Li, C., Zhang, X., Zhang, Q., Xiao, Y., Fu, Y., Tan, H.H., Liu, J., Wu, Y. Theoretical understanding for anchoring effect of MOFs for lithium-sulfur batteries (2021) *Computational and Theoretical Chemistry*, 1196, art. no. 113110, . [10.1016/j.comptc.2020.113110](https://doi.org/10.1016/j.comptc.2020.113110)
45. Knebel, A., Bavykina, A., Datta, S.J., Sundermann, L., Garzon-Tovar, L., Lebedev, Y., Durini, S., Ahmad, R., Kozlov, S.M., Shterk, G., Karunakaran, M., Carja, I.D., Simic, D., Weilert, I., Klüppel, M., Giese, U., Cavallo, L., Rueping, M., Eddaoudi, M., Caro, J., Gascon, J. Solution processable metal-organic frameworks for mixed matrix membranes using porous liquids (2020) *Nature Materials*, 19 (12), pp. 1346-1353. [10.1038/s41563-020-0764-y](https://doi.org/10.1038/s41563-020-0764-y)
46. Deng, J., Dai, Z., Deng, L. H₂-selective Troger's base polymer based mixed matrix membranes enhanced by 2D MOFs (2020) *Journal of Membrane Science*, 610, art. no. 118262. [10.1016/j.memsci.2020.118262](https://doi.org/10.1016/j.memsci.2020.118262)
47. Qian, Q., Asinger, P.A., Lee, M.J., Han, G., Mizrahi Rodriguez, K., Lin, S., Benedetti, F.M., Wu, A.X., Chi, W.S., Smith, Z.P. MOF-Based Membranes for Gas Separations (2020) *Chemical Reviews*, 120 (16), pp. 8161-8266. [10.1021/acs.chemrev.0c00119](https://doi.org/10.1021/acs.chemrev.0c00119)
48. Kalaj, M., Bentz, K.C., Ayala, S., Palomba, J.M., Barcus, K.S., Katayama, Y., Cohen, S.M. MOF-Polymer Hybrid Materials: From Simple Composites to Tailored Architectures (2020) *Chemical Reviews*, 120 (16), pp. 8267-8302. [10.1021/acs.chemrev.9b00575](https://doi.org/10.1021/acs.chemrev.9b00575)
49. Mohamed, A.M.O., Krokidas, P., Economou, I.G. Encapsulation of [bmim+][Tf₂N-] in different ZIF-8 metal analogues and evaluation of their CO₂ selectivity over CH₄ and N₂ using molecular simulation (2020) *Molecular Systems Design and Engineering*, 5 (7), pp. 1230-1238. [10.1039/d0me00021c](https://doi.org/10.1039/d0me00021c)

50. Konno, H., Nakasaka, Y., Yasuda, K., Omata, M., Masuda, T. Surfactant-assisted synthesis of nanocrystalline zeolitic imidazolate framework 8 and 67 for adsorptive removal of perfluorooctane sulfonate from aqueous solution (2020) *Catalysis Today*, 352, pp. 220-226. [10.1016/j.cattod.2019.12.036](https://doi.org/10.1016/j.cattod.2019.12.036)
51. Tran, N.T., Kwon, H.T., Kim, W.-S., Kim, J. Counter-diffusion-based in situ synthesis of ZIF-67 membranes for propylene/propane separation (2020) *Materials Letters*, 271, art. no. 127777. [10.1016/j.matlet.2020.127777](https://doi.org/10.1016/j.matlet.2020.127777)
52. Hou, Q., Zhou, S., Wei, Y., Caro, J., Wang, H. Balancing the Grain Boundary Structure and the Framework Flexibility through Bimetallic Metal-Organic Framework (MOF) Membranes for Gas Separation (2020) *Journal of the American Chemical Society*, 142 (21), pp. 9582-9586. [10.1021/jacs.0c02181](https://doi.org/10.1021/jacs.0c02181)
53. Krokidas, P., Moncho, S., Brothers, E.N., Economou, I.G. Defining New Limits in Gas Separations Using Modified ZIF Systems (2020) *ACS Applied Materials and Interfaces*, 12 (18), pp. 20536-20547. [10.1021/acsami.0c02886](https://doi.org/10.1021/acsami.0c02886)
54. Meshkat, S., Kaliaguine, S., Rodrigue, D. Comparison between ZIF-67 and ZIF-8 in Pebax® MH-1657 mixed matrix membranes for CO₂ separation (2020) *Separation and Purification Technology*, 235, art. no. 116150, . [10.1016/j.seppur.2019.116150](https://doi.org/10.1016/j.seppur.2019.116150)
55. Oh, J.W., Cho, K.Y., Kan, M.-Y., Yu, H.J., Kang, D.-Y., Lee, J.S. High-flux mixed matrix membranes containing bimetallic zeolitic imidazole framework-8 for C₃H₆/C₃H₈ separation (2020) *Journal of Membrane Science*, 596, art. no. 117735. [10.1016/j.memsci.2019.117735](https://doi.org/10.1016/j.memsci.2019.117735)
56. Park, S., Jeong, H.-K. In-situ linker doping as an effective means to tune zeolitic-imidazolate framework-8 (ZIF-8) fillers in mixed-matrix membranes for propylene/propane separation (2020) *Journal of Membrane Science*, 596, art. no. 117689. [10.1016/j.memsci.2019.117689](https://doi.org/10.1016/j.memsci.2019.117689)
57. Tran, N.T., Kim, J., Othman, M.R. Microporous ZIF-8 and ZIF-67 membranes grown on mesoporous alumina substrate for selective propylene transport (2020) *Separation and Purification Technology*, 233, art. no. 116026. [10.1016/j.seppur.2019.116026](https://doi.org/10.1016/j.seppur.2019.116026)
58. Goh, P., Ismail, A.F. Nanocomposite Membranes for Gas Separation (2020) *Nanocomposite Membranes for Gas Separation*, pp. 1-300. [10.1016/B978-0-12-819406-5.00010-1](https://doi.org/10.1016/B978-0-12-819406-5.00010-1)
59. Elayappan, V., Shinde, P.A., Veerasubramani, G.K., Jun, S.C., Noh, H.S., Kim, K., Kim, M., Lee, H. Metal-organic-framework-derived hierarchical Co/CoP-decorated nanoporous carbon polyhedra for robust high-energy storage hybrid supercapacitors (2020) *Dalton Transactions*, 49 (4), pp. 1157-1166. [10.1039/c9dt04522h](https://doi.org/10.1039/c9dt04522h)
60. Cui, H., Liu, S., Lv, Y., Wu, S., Wang, L., Hao, F., Liu, P., Xiong, W., Luo, H. Transfer hydrogenation of cinnamaldehyde to cinnamyl alcohol in hydrophobically modified core-shell MOFs nanoreactor: Identification of the formed metal-N as the structure of an active site (2020) *Journal of Catalysis*, 381, pp. 468-481. [10.1016/j.jcat.2019.11.024](https://doi.org/10.1016/j.jcat.2019.11.024)
61. Mohamed, A.M.O., Moncho, S., Krokidas, P., Kakosimos, K., Brothers, E.N., Economou, I.G. Computational investigation of the performance of ZIF-8 with encapsulated ionic liquids towards CO₂ capture* (2019) *Molecular Physics*, 117 (23-24), pp. 3791-3805. [10.1080/00268976.2019.1666170](https://doi.org/10.1080/00268976.2019.1666170)
62. Krishtab, M., Stassen, I., Stassin, T., Cruz, A.J., Okudur, O.O., Armini, S., Wilson, C., De Gendt, S., Ameloot, R. Vapor-deposited zeolitic imidazolate frameworks as gap-filling ultra-low-k dielectrics (2019) *Nature Communications*, 10 (1), art. no. 3729. [10.1038/s41467-019-11703-x](https://doi.org/10.1038/s41467-019-11703-x)
63. Barbosa, G.D., Travalloni, L., Tavares, F.W., Castier, M. Adsorption of Gases on Zeolitic Imidazolate Frameworks: Modeling with Equations of State for Confined Fluids and Pore Size Distribution Estimation (2019) *Industrial and Engineering Chemistry Research*, 58 (42), pp. 19702-19708. [10.1021/acs.iecr.9b05221](https://doi.org/10.1021/acs.iecr.9b05221)
64. Vu, M.-T., Lin, R., Diao, H., Zhu, Z., Bhatia, S.K., Smart, S. Effect of ionic liquids (ILs) on MOFs/polymer interfacial enhancement in mixed matrix membranes (2019) *Journal of Membrane Science*, 587, art. no. 117157. [10.1016/j.memsci.2019.05.081](https://doi.org/10.1016/j.memsci.2019.05.081)

65. Zheng, B., Maurin, G. Mechanical Control of the Kinetic Propylene/Propane Separation by Zeolitic Imidazolate Framework-8 (2019) *Angewandte Chemie - International Edition*, 58 (39), pp. 13734-13738. [10.1002/anie.201906245](https://doi.org/10.1002/anie.201906245)
66. Lv, S., Zhang, K., Zhu, L., Tang, D., Niessner, R., Knopp, D. H₂-Based Electrochemical Biosensor with Pd Nanowires@ZIF-67 Molecular Sieve Bilayered Sensing Interface for Immunoassay (2019) *Analytical Chemistry*, 91 (18), pp. 12055-12062. [10.1021/acs.analchem.9b03177](https://doi.org/10.1021/acs.analchem.9b03177)
67. Andres-Garcia, E., López-Cabrelles, J., Oar-Arteta, L., Roldan-Martinez, B., Cano-Padilla, M., Gascon, J., Mínguez Espallargas, G., Kapteijn, F. Cation influence in adsorptive propane/propylene separation in ZIF-8 (SOD) topology (2019) *Chemical Engineering Journal*, 371, pp. 848-856. [10.1016/j.cej.2019.04.094](https://doi.org/10.1016/j.cej.2019.04.094)
68. Nian, P., Ma, C., Liu, H., Qiu, J., Zhang, X. High-Performance Co-Based ZIF-67 Tubular Membrane Achieved by ZnO-Induced Synthesis for Highly Efficient Pervaporation Separation of Methanol/Methyl tert-Butyl Ether Mixture (2019) *Industrial and Engineering Chemistry Research*, 58 (33), pp. 15297-15306. [10.1021/acs.iecr.9b03423](https://doi.org/10.1021/acs.iecr.9b03423)
69. Zakhia Douaihy, R., Al-Ghoul, M., Hmadeh, M. Liesegang Banding for Controlled Size and Growth of Zeolitic-Imidazolate Frameworks (2019) *Small*, 15 (28), art. no. 1901605. [10.1002/sml.201901605](https://doi.org/10.1002/sml.201901605)
70. Mahmoodi, N.M., Taghizadeh, M., Taghizadeh, A., Abdi, J., Hayati, B., Shekarchi, A.A. Bio-based magnetic metal-organic framework nanocomposite: Ultrasound-assisted synthesis and pollutant (heavy metal and dye) removal from aqueous media (2019) *Applied Surface Science*, 480, pp. 288-299. [10.1016/j.apsusc.2019.02.211](https://doi.org/10.1016/j.apsusc.2019.02.211)
71. Wang, Y., Peh, S.B., Zhao, D. Alternatives to Cryogenic Distillation: Advanced Porous Materials in Adsorptive Light Olefin/Paraffin Separations (2019) *Small*, 15 (25), art. no. 1900058. [10.1002/sml.201900058](https://doi.org/10.1002/sml.201900058)
72. Pimentel, B.R., Jue, M.L., Zhou, E.-K., Verploegh, R.J., Leisen, J., Sholl, D.S., Lively, R.P. Sorption and Transport of Vapors in ZIF-11: Adsorption, Diffusion, and Linker Flexibility (2019) *Journal of Physical Chemistry C*, 123 (20), pp. 12862-12870. [10.1021/acs.jpcc.9b02192](https://doi.org/10.1021/acs.jpcc.9b02192)
73. Hillman, F., Jeong, H.-K. Linker-Doped Zeolitic Imidazolate Frameworks (ZIFs) and Their Ultrathin Membranes for Tunable Gas Separations (2019) *ACS Applied Materials and Interfaces*, 11 (20), pp. 18377-18385. [10.1021/acsami.9b02114](https://doi.org/10.1021/acsami.9b02114)
74. Monsalve-Bravo, G.M., Smart, S., Bhatia, S.K. Simulation of multicomponent gas transport through mixed-matrix membranes (2019) *Journal of Membrane Science*, 577, pp. 219-234. [10.1016/j.memsci.2019.02.013](https://doi.org/10.1016/j.memsci.2019.02.013)
75. Verploegh, R.J., Kulkarni, A., Boulfelfel, S.E., Haydak, J.C., Tang, D., Sholl, D.S. Screening Diffusion of Small Molecules in Flexible Zeolitic Imidazolate Frameworks Using a DFT-Parameterized Force Field (2019) *Journal of Physical Chemistry C*, 123 (14), pp. 9153-9167. [10.1021/acs.jpcc.9b00733](https://doi.org/10.1021/acs.jpcc.9b00733)
76. Andres-Garcia, E., Oar-Arteta, L., Gascon, J., Kapteijn, F. ZIF-67 as silver-bullet in adsorptive propane/propylene separation (2019) *Chemical Engineering Journal*, 360, pp. 10-14. [10.1016/j.cej.2018.11.118](https://doi.org/10.1016/j.cej.2018.11.118)
77. Freude, D., Dvoyashkina, N., Arzumanov, S.S., Kolokolov, D.I., Stepanov, A.G., Chmelik, C., Jin, H., Li, Y., Kärger, J., Haase, J. NMR Study of the Host Structure and Guest Dynamics Investigated with Alkane/Alkene Mixtures in Metal Organic Frameworks ZIF-8 (2019) *Journal of Physical Chemistry C*, 123 (3), pp. 1904-1912. [10.1021/acs.jpcc.8b11673](https://doi.org/10.1021/acs.jpcc.8b11673)
78. Murayama, M., Kobayashi, N., Matsushima, Y., Unuma, H. Low-temperature synthesis of porous Co₃O₄ thin films through two approaches: Metal organic framework-decomposition and solution combustion methods (2019) *Journal of the Ceramic Society of Japan*, 127 (10), pp. 741-746. [10.2109/jcersj2.19141](https://doi.org/10.2109/jcersj2.19141)
79. Wu, C., Xie, D., Mei, Y., Xiu, Z., Poduska, K.M., Li, D., Xu, B., Sun, D. Unveiling the thermolysis natures of ZIF-8 and ZIF-67 by employing: In situ structural characterization studies (2019) *Physical Chemistry Chemical Physics*, 21 (32), pp. 17571-17577. [10.1039/c9cp02582k](https://doi.org/10.1039/c9cp02582k)
80. Park, J.-H., Park, K., Han, D., Yeon, D.-H., Jung, H., Choi, B., Park, S.Y., Ahn, S.-J., Park, J.-H., Han, H.N., Lee, K.H. Structure- and porosity-tunable, thermally reactive metal organic frameworks for high-

- performance Ni-rich layered oxide cathode materials with multi-scale pores (2019) *Journal of Materials Chemistry A*, 7 (25), pp. 15190-15197. [10.1039/c9ta02462j](#)
81. Ma, X., Liu, D. Zeolitic imidazolate framework membranes for light olefin/paraffin separation (2019) *Crystals*, 9 (1), art. no. 14. [10.3390/cryst9010014](#)
 82. Krokidas, P., Moncho, S., Brothers, E.N., Castier, M., Jeong, H.-K., Economou, I.G. On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8 (2018) *ACS Applied Materials and Interfaces*, 10 (46), pp. 39631-39644. [10.1021/acsami.8b12605](#)
 83. Liu, N., Tang, M., Jing, C., Huang, W., Tao, P., Zhang, X., Lei, J., Tang, L. Synthesis of highly efficient Co₃O₄ catalysts by heat treatment ZIF-67 for CO oxidation (2018) *Journal of Sol-Gel Science and Technology*, 88 (1), pp. 163-171. [10.1007/s10971-018-4784-x](#)
 84. Farid, S., Ren, S., Hao, C. MOF-derived metal/carbon materials as oxygen evolution reaction catalysts (2018) *Inorganic Chemistry Communications*, 94, pp. 57-74. [10.1016/j.inoche.2018.06.008](#)
 85. Hamid, M.R.A., Jeong, H.-K. Recent advances on mixed-matrix membranes for gas separation: Opportunities and engineering challenges (2018) *Korean Journal of Chemical Engineering*, 35 (8), pp. 1577-1600. [10.1007/s11814-018-0081-1](#)
 86. Mohamed, A., Krokidas, P., Economou, I.G. CO₂ selective metal organic framework ZIF-8 modified through ionic liquid encapsulation: A computational study (2018) *Journal of Computational Science*, 27, pp. 183-191. [10.1016/j.jocs.2018.05.010](#)
 87. Sun, J., Semchenko, L., Lim, W.T., Ballesteros Rivas, M.F., Varela-Guerrero, V., Jeong, H.-K. Facile synthesis of Cd-substituted zeolitic-imidazolate framework Cd-ZIF-8 and mixed-metal CdZn-ZIF-8 (2018) *Microporous and Mesoporous Materials*, 264, pp. 35-42. [10.1016/j.micromeso.2017.12.032](#)
 88. Azad, U.P., Ghosh, S., Verma, C.J., Singh, A.K., Singh, A.K., Prakash, R. Study of the Capacitive Behavior of MOF-Derived Nanocarbon Polyhedra (2018) *ChemistrySelect*, 3 (22), pp. 6107-6111. [10.1002/slct.201801068](#)
 89. Knebel, A., Wulfert-Holzmann, P., Friebe, S., Pavel, J., Strauß, I., Mundstock, A., Steinbach, F., Caro, J. Hierarchical Nanostructures of Metal-Organic Frameworks Applied in Gas Separating ZIF-8-on-ZIF-67 Membranes (2018) *Chemistry - A European Journal*, 24 (22), pp. 5728-5733. [10.1002/chem.201705562](#)
 90. Azamat, J. Application of functionalized graphene oxide nanosheet in gas separation (2018) *International Journal of Nanoscience and Nanotechnology*, 14 (2), pp. 165-175.
 91. Li, K., Xiao, H., He, J., Jiang, H. Differences in Phase Change Processes Upon Heating between Co and Zn-ZIF-4 Compounds (2018) *Nano*, 13 (3), art. no. 1850025. [10.1142/S179329201850025X](#)
 92. Wu, X., Liu, W., Wu, H., Zong, X., Yang, L., Wu, Y., Ren, Y., Shi, C., Wang, S., Jiang, Z. Nanoporous ZIF-67 embedded polymers of intrinsic microporosity membranes with enhanced gas separation performance (2018) *Journal of Membrane Science*, 548, pp. 309-318. [10.1016/j.memsci.2017.11.038](#)
 93. Hillman, F., Brito, J., Jeong, H.-K. Rapid One-Pot Microwave Synthesis of Mixed-Linker Hybrid Zeolitic-Imidazolate Framework Membranes for Tunable Gas Separations (2018) *ACS Applied Materials and Interfaces*, 10 (6), pp. 5586-5593. [10.1021/acsami.7b18506](#)
 94. Sapnik, A.F., Geddes, H.S., Reynolds, E.M., Yeung, H.H.-M., Goodwin, A.L. Compositional inhomogeneity and tuneable thermal expansion in mixed-metal ZIF-8 analogues (2018) *Chemical Communications*, 54 (69), pp. 9651-9654. [10.1039/c8cc04172e](#)
 95. Nian, P., Cao, Y., Li, Y., Zhang, X., Wang, Y., Liu, H., Zhang, X. Preparation of a pure ZIF-67 membrane by self-conversion of cobalt carbonate hydroxide nanowires for H₂ separation (2018) *CrystEngComm*, 20 (17), pp. 2440-2448. [10.1039/c8ce00238j](#)
 96. Krokidas, P., Moncho, S., Brothers, E.N., Castier, M., Economou, I.G. Tailoring the gas separation efficiency of metal organic framework ZIF-8 through metal substitution: A computational study (2018) *Physical Chemistry Chemical Physics*, 20 (7), pp. 4879-4892. [10.1039/c7cp08456k](#)
 97. Zhong, G., Liu, D., Zhang, J. The application of ZIF-67 and its derivatives: Adsorption, separation, electrochemistry and catalysts (2018) *Journal of Materials Chemistry A*, 6 (5), pp. 1887-1899. [10.1039/c7ta08268a](#)

98. Du, X.-D., Wang, C.-C., Liu, J.-G., Zhao, X.-D., Zhong, J., Li, Y.-X., Li, J., Wang, P. Extensive and selective adsorption of ZIF-67 towards organic dyes: Performance and mechanism (2017) *Journal of Colloid and Interface Science*, 506, pp. 437-441. [10.1016/j.jcis.2017.07.073](https://doi.org/10.1016/j.jcis.2017.07.073)
 99. Krokidas, P., Castier, M., Economou, I.G. Computational Study of ZIF-8 and ZIF-67 Performance for Separation of Gas Mixtures (2017) *Journal of Physical Chemistry C*, 121 (33), pp. 17999-18011. [10.1021/acs.jpcc.7b05700](https://doi.org/10.1021/acs.jpcc.7b05700)
 100. Öztürk, Z., Filez, M., Weckhuysen, B.M. Decoding Nucleation and Growth of Zeolitic Imidazolate Framework Thin Films with Atomic Force Microscopy and Vibrational Spectroscopy (2017) *Chemistry - A European Journal*, 23 (45), pp. 10915-10924. [10.1002/chem.201702130](https://doi.org/10.1002/chem.201702130)
 101. Cacho-Bailo, F., Matito-Martos, I., Perez-Carbajo, J., Etxeberria-Benavides, M., Karvan, O., Sebastián, V., Calero, S., Téllez, C., Coronas, J. On the molecular mechanisms for the H₂/CO₂ separation performance of zeolite imidazolate framework two-layered membranes (2017) *Chemical Science*, 8 (1), pp. 325-333. [10.1039/c6sc02411d](https://doi.org/10.1039/c6sc02411d)
 102. Economou, I.G., Krokidas, P., Michalis, V.K., Moulτος, O.A., Tsimpanogiannis, I.N., Vergadou, N. The role of molecular thermodynamics in developing industrial processes and novel products that meet the needs for a sustainable future (2017) *The Water-Food-Energy Nexus: Processes, Technologies, and Challenges*, pp. 635-660. [10.4324/9781315153209](https://doi.org/10.4324/9781315153209)
 103. An, H., Park, S., Kwon, H.T., Jeong, H.-K., Lee, J.S. A new superior competitor for exceptional propylene/propane separations: ZIF-67 containing mixed matrix membranes (2017) *Separations Division 2017 - Core Programming Area at the 2017 AIChE Annual Meeting*, 1, pp. 500-509.
 104. An, H., Park, S., Kwon, H.T., Jeong, H.-K., Lee, J.S. A new superior competitor for exceptional propylene/propane separations: ZIF-67 containing mixed matrix membranes (2017) *Poster Sessions 2017 - Core Programming Area at the 2017 AIChE Annual Meeting*, 3, pp. 1362-1371. [10.1016/j.memsci.2016.12.053](https://doi.org/10.1016/j.memsci.2016.12.053)
 105. Wang, Z., Laddha, G., Kanitkar, S., Spivey, J.J. Metal organic framework-mediated synthesis of potassium-promoted cobalt-based catalysts for higher oxygenates synthesis (2017) *Catalysis Today*, 298, pp. 209-215. [10.1016/j.cattod.2017.04.035](https://doi.org/10.1016/j.cattod.2017.04.035)
 106. Hillman, F., Zimmerman, J.M., Paek, S.-M., Hamid, M.R.A., Lim, W.T., Jeong, H.-K. Rapid microwave-assisted synthesis of hybrid zeolitic-imidazolate frameworks with mixed metals and mixed linkers (2017) *Journal of Materials Chemistry A*, 5 (13), pp. 6090-6099. [10.1039/c6ta11170j](https://doi.org/10.1039/c6ta11170j)
 107. An, H., Park, S., Kwon, H.T., Jeong, H.-K., Lee, J.S. A new superior competitor for exceptional propylene/propane separations: ZIF-67 containing mixed matrix membranes (2017) *Journal of Membrane Science*, 526, pp. 367-376. [10.1016/j.memsci.2016.12.053](https://doi.org/10.1016/j.memsci.2016.12.053)
 108. Zhang, P., Kong, L., Wang, H., Kang, Q., Shen, D. Combination of an electrodeless quartz crystal microbalance and spectrometric methods and application in monitoring adsorption kinetics of iodine on metal-organic frameworks films (2017) *Sensors and Actuators, B: Chemical*, 238, pp. 744-753. [10.1016/j.snb.2016.07.131](https://doi.org/10.1016/j.snb.2016.07.131)
 109. Chokbunpiam, T., Fritzsche, S., Chmelik, C., Caro, J., Janke, W., Hannongbua, S. Gate Opening, Diffusion, and Adsorption of CO₂ and N₂ Mixtures in ZIF-8 (2016) *Journal of Physical Chemistry C*, 120 (41), pp. 23458-23468. [10.1021/acs.jpcc.6b05506](https://doi.org/10.1021/acs.jpcc.6b05506)
 110. Azamat, J., Khataee, A., Sadikoglu, F. Separation of carbon dioxide and nitrogen gases through modified boron nitride nanosheets as a membrane: Insights from molecular dynamics simulations (2016) *RSC Advances*, 6 (97), pp. 94911-94920. [10.1039/c6ra18396d](https://doi.org/10.1039/c6ra18396d)
10. **D. N. Sredojević**, P. V. Petrović, G. V. Janjić, E. N. Brothers, M. B. Hall, S. D. Zarić, **The Stacking Interactions of Bipyridine Complexes: The Influence of the Metal Ion Type on the Strength of Interactions**, *J. Mol. Model.*, 2016, 22(1), pp.1-9.

Цитиран у:

1. Sierański, T. Energy, orbital and structural stacking landscape of a purine homodimer system (2020) *Theoretical Chemistry Accounts*, 139 (10), art. no. 153. [10.1007/s00214-020-02668-y](https://doi.org/10.1007/s00214-020-02668-y)
 2. Etaiw, S.E.H., Abd El-Aziz, D.M., Ali, E.A. Crystal structure, cytotoxicity and biological activity of hydrogen bonded networks based on dimethyltin (IV) and bipodal ligands (2019) *Journal of Organometallic Chemistry*, 894, pp. 43-60. [10.1016/j.jorgchem.2019.05.007](https://doi.org/10.1016/j.jorgchem.2019.05.007)
 3. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
 4. Sierański, T. Discovering the stacking landscape of a pyridine-pyridine system (2017) *Journal of Molecular Modeling*, 23 (12), art. no. 338. [10.1007/s00894-017-3496-4](https://doi.org/10.1007/s00894-017-3496-4)
 5. Zhan, Y., Zhao, X., Wang, W. Synthesis of phthalimide disperse dyes and study on the interaction energy (2017) *Dyes and Pigments*, 146, pp. 240-250. [10.1016/j.dyepig.2017.07.013](https://doi.org/10.1016/j.dyepig.2017.07.013)
11. D. P. Malenov, D. B. Ninković, **D. N. Sredojević**, S. D. Zarić, **Stacking of Benzene with Metal Chelates: Calculated CCSD(T)/CBS Interaction Energies and Potential-Energy Curves**, *ChemPhysChem*. 2014, 15, pp. 2458-2461.

Цитиран у:

1. Maity, S., Ghosh, T.K., Gomila, R.M., Frontera, A., Ghosh, A. Recurrent $\pi(\text{arene})\cdots\pi(\text{chelate ring})$ motifs in four trinuclear $\text{CuII}2\text{MII}(\text{M} = \text{Cd/Zn})$ complexes derived from an unsymmetrical N_2O_2 donor ligand: Structural and theoretical investigations (2020) *CrystEngComm*, 22 (44), pp. 7673-7683. [10.1039/d0ce01219j](https://doi.org/10.1039/d0ce01219j)
2. Madni, M., Ahmed, M.N., Hafeez, M., Ashfaq, M., Tahir, M.N., Gil, D.M., Galmés, B., Hameed, S., Frontera, A. Recurrent π - π stacking motifs in three new 4,5-dihydropyrazolyl-thiazole-coumarin hybrids: X-ray characterization, Hirshfeld surface analysis and DFT calculations (2020) *New Journal of Chemistry*, 44 (34), pp. 14592-14603. [10.1039/d0nj02931a](https://doi.org/10.1039/d0nj02931a)
3. Malenov, D.P., Zarić, S.D. Strong stacking interactions of metal-chelate rings are caused by substantial electrostatic component (2019) *Dalton Transactions*, 48 (19), pp. 6328-6332. [10.1039/c9dt00182d](https://doi.org/10.1039/c9dt00182d)
4. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
5. Malenov, D.P., Veljković, D.Z., Hall, M.B., Brothers, E.N., Zarić, S.D. Influence of chelate ring type on chelate-chelate and chelate-aryl stacking: The case of nickel bis(dithiolene) (2019) *Physical Chemistry Chemical Physics*, 21 (3), pp. 1198-1206. [10.1039/c8cp06312e](https://doi.org/10.1039/c8cp06312e)
6. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate-aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](https://doi.org/10.1002/qua.25629)
7. Andrić, J.M., Antonijević, I.S., Janjić, G.V., Zarić, S.D. Influence of hydrogen bonds on edge-to-face interactions between pyridine molecules (2018) *Journal of Molecular Modeling*, 24 (3), art. no. 60. [10.1007/s00894-017-3570-y](https://doi.org/10.1007/s00894-017-3570-y)
8. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional $\text{C-H}\cdots\pi(\text{aryl})$ and unconventional $\text{C-H}\cdots\pi(\text{chelate})$ interactions in dinuclear Cu(II) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](https://doi.org/10.1039/c8nj00747k)
9. Malenov, D.P., Zarić, S.D. Chelated metal ions modulate the strength and geometry of stacking interactions: Energies and potential energy surfaces for chelate-chelate stacking (2018) *Physical Chemistry Chemical Physics*, 20 (20), pp. 14053-14060. [10.1039/c7cp06262a](https://doi.org/10.1039/c7cp06262a)

10. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
11. Malenov, D.P., Antonijević, I.S., Zarić, S.D. Large horizontal displacements of benzene-benzene stacking interactions in co-crystals (2017) *Multi-Component Crystals: Synthesis, Concepts, Function*, pp. 255-271. [10.1515/9783110464955-011](https://doi.org/10.1515/9783110464955-011)
12. Janjić, G.V., Milosavljević, M.D., Veljković, D.Ž., Zarić, S.D. Prediction of strong O-H/M hydrogen bonding between water and square-planar Ir and Rh complexes (2017) *Physical Chemistry Chemical Physics*, 19 (13), pp. 8657-8660. [10.1039/c6cp08796e](https://doi.org/10.1039/c6cp08796e)
13. Blagojević, J.P., Veljković, D., Zarić, S.D. Stacking interactions between hydrogen-bridged and aromatic rings: study of crystal structures and quantum chemical calculations (2017) *CrystEngComm*, 19 (1), pp. 40-46. [10.1039/c6ce02045c](https://doi.org/10.1039/c6ce02045c)
14. Malenov, D.P., Dragelj, J.L., Janjić, G.V., Zarić, S.D. Coordinating benzenes stack stronger than noncoordinating benzenes, even at large horizontal displacements (2016) *Crystal Growth and Design*, 16 (8), pp. 4169-4172. [10.1021/acs.cgd.5b01514](https://doi.org/10.1021/acs.cgd.5b01514)
15. McKay, A.P., Lo, W.K.C., Preston, D., Giles, G.I., Crowley, J.D., Barnsley, J.E., Gordon, K.C., McMorran, D.A. Palladium(II) and platinum(II) complexes of ((2-pyridyl)pyrazol-1-ylmethyl)benzoic acids: Synthesis, Solid state characterisation and biological cytotoxicity (2016) *Inorganica Chimica Acta*, 446, pp. 41-53. [10.1016/j.ica.2016.02.038](https://doi.org/10.1016/j.ica.2016.02.038)
16. Blagojević, J.P., Janjić, G.V., Zarić, S.D. Very strong parallel interactions between two saturated acyclic groups closed with intramolecular hydrogen bonds forming hydrogen-bridged rings (2016) *Crystals*, 6 (4), art. no. 34, . [10.3390/cryst6040034](https://doi.org/10.3390/cryst6040034)
17. Malenov, D.P., Zarić, S.D. Parallel interactions of aromatic and heteroaromatic molecules [Paralelne interakcije aromatičnih i heteroaromatičnih molekula] (2016) *Hemijska Industrija*, 70 (6), pp. 649-659. [10.2298/HEMIND151009003M](https://doi.org/10.2298/HEMIND151009003M)
18. Ninković, D.B., Vojislavljević-Vasilev, D.Z., Medaković, V.B., Hall, M.B., Brothers, E.N., Zarić, S.D. Aliphatic-aromatic stacking interactions in cyclohexane-benzene are stronger than aromatic-aromatic interaction in the benzene dimer (2016) *Physical Chemistry Chemical Physics*, 18 (37), pp. 25791-25795. [10.1039/c6cp03734h](https://doi.org/10.1039/c6cp03734h)
19. Nachimuthu, S., Chen, W.-C., Leggesse, E.G., Jiang, J.-C. First principles study of organic sensitizers for dye sensitized solar cells: Effects of anchoring groups on optoelectronic properties and dye aggregation (2015) *Physical Chemistry Chemical Physics*, 18 (2), pp. 1071-1081. [10.1039/c5cp04877j](https://doi.org/10.1039/c5cp04877j)
20. Blagojević, J.P., Zarić, S.D. Stacking interactions of hydrogen-bridged rings-stronger than the stacking of benzene molecules (2015) *Chemical Communications*, 51 (65), pp. 12989-12991. [10.1039/c5cc04139b](https://doi.org/10.1039/c5cc04139b)
21. Mirzaei, M., Eshtiagh-Hosseini, H., Shamsipur, M., Saeedi, M., Ardalani, M., Bauzá, A., Mague, J.T., Frontera, A., Habibi, M. Importance of polarization assisted/resonance assisted hydrogen bonding interactions and unconventional interactions in crystal formations of five new complexes bearing chelidamic acid through a proton transfer mechanism (2015) *RSC Advances*, 5 (89), pp. 72923-72936. [10.1039/c5ra09526c](https://doi.org/10.1039/c5ra09526c)
22. Malenov, D.P., Ninkovic, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](https://doi.org/10.1002/cphc.201402589)
23. Zarić, S.D., Malenov, D.P., Ninković, D.B. Strong stacking between organic and organometallic molecules as the key for material design (2015) *Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015*, pp. 409-413. [10.1002/9781119090427.ch43](https://doi.org/10.1002/9781119090427.ch43)
24. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](https://doi.org/10.1021/cg500447h)

12. **D. N. Sredojević**, D. B. Ninković, G. V. Janjić, J. Zhou, M. B. Hall, S. D. Zarić, **Stacking Interactions of Ni(acac) Chelates with Benzene: Calculated Interaction Energies**, *ChemPhysChem*, 2013, 14(9), pp. 1797-1800.

Цитиран у:

1. Milovanović, M.R., Boucher, M., Cornaton, Y., Zarić, S.D., Pfeffer, M., Djukic, J.-P. The Thermochemistry of Alkyne Insertion into a Palladacycle Outlines the Solvation Conundrum in DFT (2021) *European Journal of Inorganic Chemistry*, 2021 (45), pp. 4690-4699. [10.1002/ejic.202100750](https://doi.org/10.1002/ejic.202100750)
 2. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
 3. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional C-H... π (aryl) and unconventional C-H... π (chelate) interactions in dinuclear Cu(II) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](https://doi.org/10.1039/c8nj00747k)
 4. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
 5. McKay, A.P., Lo, W.K.C., Preston, D., Giles, G.I., Crowley, J.D., Barnsley, J.E., Gordon, K.C., McMorran, D.A. Palladium(II) and platinum(II) complexes of ((2-pyridyl)pyrazol-1-ylmethyl)benzoic acids: Synthesis, Solid state characterisation and biological cytotoxicity (2016) *Inorganica Chimica Acta*, 446, pp. 41-53. [10.1016/j.ica.2016.02.038](https://doi.org/10.1016/j.ica.2016.02.038)
 6. Shee, N.K., Datta, D. Aromaticity of metal acetylacetonates and a Möbius chelate of a cadmium(II) complex of an N4helical ligand (2016) *Inorganica Chimica Acta*, 453, pp. 339-344. [10.1016/j.ica.2016.08.032](https://doi.org/10.1016/j.ica.2016.08.032)
 7. Malenov, D.P., Ninkovic, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](https://doi.org/10.1002/cphc.201402589)
 8. Zarić, S.D., Malenov, D.P., Ninković, D.B. Strong stacking between organic and organometallic molecules as the key for material design (2015) *Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015*, pp. 409-413. [10.1002/9781119090427.ch43](https://doi.org/10.1002/9781119090427.ch43)
 9. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](https://doi.org/10.1021/cg500447h)
 10. Vojislavljević-Vasilev, D.Z., Janjić, G.V., Medaković, V.B., Blagojević, J.P., Zarić, S.D. Parallel water/aromatic interactions of non-coordinated and coordinated water (2014) *ChemPhysChem*, 15 (11), pp. 2386-2396. [10.1002/cphc.201402004](https://doi.org/10.1002/cphc.201402004)
 11. Zhou, J. Stacking interactions of nickel bis(dithiolene) with benzene (2014) *Chemical Physics Letters*, 591, pp. 29-31. [10.1016/j.cplett.2013.10.088](https://doi.org/10.1016/j.cplett.2013.10.088)
13. W. Iali, F. L. Paglia, X.F. Le Goff, **D. Sredojević**, M. Pfeffer, J.-P. Djukic, **Room temperature tandem hydroamination and hydrosilation/protodesilation catalysis by a tricarbonylchromium-bound iridacycle**, *Chem. Comm.* 2012, 48(83), pp. 10310-2.

Цитиран у:

1. Behzadi, M., Gajendramurthy, C.M., Boucher, M., Deraedt, C., Cornaton, Y., Karmazin, L., Gruber, N., Bertani, P., Djukic, J.-P. Electrophilic Si-H Activation by Acetonitrile Benzo[h]quinoline Iridacycles:

- Influence of Electronic Effects in Catalysis (2023) Chemistry - A European Journal, 29 (43), art. no. e202300811, . [10.1002/chem.202300811](https://doi.org/10.1002/chem.202300811)
2. Antuña-Hörlein, C., Wu, F., Deraedt, C., Bouillet, C., Djukic, J.-P. Cobalt Nanoparticles Formed upon Reaction of Cp*Co(III) Metallacycles with Na[BHEt3] Show Catalytic Activity in the Hydrosilylation of Aryl Ketones, Aldehydes and Nitriles (2023) European Journal of Inorganic Chemistry, 26 (6), art. no. e202200563, . [10.1002/ejic.202200563](https://doi.org/10.1002/ejic.202200563)
 3. Song, T., Mu, Y. Cyclic and Non-cyclic π Complexes of Chromium (2022) Comprehensive Organometallic Chemistry IV: Volume 1-15, 1-15, pp. 81-173. [10.1016/B978-0-12-820206-7.00056-1](https://doi.org/10.1016/B978-0-12-820206-7.00056-1)
 4. Gao, W.-X., Cui, P.-F., Cui, Z., Jin, G.-X. Half-Sandwich Rhodium and Iridium Complexes (2022) Comprehensive Organometallic Chemistry IV: Volume 1-15, 1-15, pp. 55-187. [10.1016/B978-0-12-820206-7.00144-X](https://doi.org/10.1016/B978-0-12-820206-7.00144-X)
 5. Malchau, C., Milbert, T., Eger, T.R., Fries, D.V., Pape, P.J., Oelkers, B., Sun, Y., Becker, S., Prosenc, M.H., Niedner-Schatteburg, G., Thiel, W.R. A Cyclometalated NHC Iridium Complex Bearing a Cationic (η^5 -Cyclopentadienyl)(η^6 -phenyl)iron Backbone** (2021) Chemistry - A European Journal, 27 (61), pp. 15208-15216. [10.1002/chem.202102520](https://doi.org/10.1002/chem.202102520)
 6. Chen, Z., Kacmaz, A., Xiao, J. Recent Development in the Synthesis and Catalytic Application of Iridacycles (2021) Chemical Record, 21 (6), pp. 1506-1534. [10.1002/tcr.202100051](https://doi.org/10.1002/tcr.202100051)
 7. Smith, J., Kacmaz, A., Wang, C., Villa-Marcos, B., Xiao, J. Chiral cyclometalated iridium complexes for asymmetric reduction reactions (2021) Organic and Biomolecular Chemistry, 19 (1), pp. 279-284. [10.1039/d0ob02049d](https://doi.org/10.1039/d0ob02049d)
 8. Iglesias, M., Oro, L.A. Iridium-Catalyzed Silylation (2021) Topics in Organometallic Chemistry, 69, pp. 227-270. [10.1007/3418_2020_55](https://doi.org/10.1007/3418_2020_55)
 9. Corre, Y., Rysak, V., Nagyházi, M., Kalocsai, D., Trivelli, X., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. One-Pot Controlled Reduction of Conjugated Amides by Sequential Double Hydrosilylation Catalyzed by an Iridium(III) Metallacycle (2020) European Journal of Organic Chemistry, 2020 (39), pp. 6212-6220. [10.1002/ejoc.202001061](https://doi.org/10.1002/ejoc.202001061)
 10. Chen, J., Shen, X., Lu, Z. Cobalt-Catalyzed Markovnikov Selective Sequential Hydrogenation/Hydrohydrazidation of Aliphatic Terminal Alkynes (2020) Journal of the American Chemical Society, 142 (34), pp. 14455-14460. [10.1021/jacs.0c07258](https://doi.org/10.1021/jacs.0c07258)
 11. Erken, C., Hindemith, C., Weyhermüller, T., Hölscher, M., Werlé, C., Leitner, W. Hydroamination of Aromatic Alkynes to Imines Catalyzed by Pd(II)-Anthraphos Complexes (2020) ACS Omega, 5 (15), pp. 8912-8918. [10.1021/acsomega.0c00562](https://doi.org/10.1021/acsomega.0c00562)
 12. Nemytov, A.I., Utepova, I.A., Chupakhin, O.N., Slepukhin, P.A., Charushin, V.N. Lithium benzenechromiumtricarbonyl as C-nucleophile in the cross-dehydrogenative coupling reactions of azaaromatics (2019) Inorganica Chimica Acta, 487, pp. 339-344. [10.1016/j.ica.2018.12.040](https://doi.org/10.1016/j.ica.2018.12.040)
 13. Tan, T.T.Y., Schick, S., Hahn, F.E. Synthesis and Reactivity of Ir III Complexes Bearing C-Metalated Pyrazolato Ligands (2019) Organometallics, 38 (2), pp. 567-574. [10.1021/acs.organomet.8b00856](https://doi.org/10.1021/acs.organomet.8b00856)
 14. Nagata, T., Adachi, Y., Obora, Y. Thiolate-Protected Au 25 (SC 2 H 4 Ph) 18 Nanoclusters as a Catalyst for Intermolecular Hydroamination of Terminal Alkynes (2018) Synlett, 29 (20), art. no. st-2018-u0587-l, pp. 2655-2659. [10.1055/s-0037-1610671](https://doi.org/10.1055/s-0037-1610671)
 15. Li, T., Wang, Z., Liu, K., Xing, S., Zhu, B. Reactivity of Alkyne Insertion and Catalytic Activity of Five- and Six-Membered Cyclometalated Phosphine Complexes of Iridium (2018) European Journal of Inorganic Chemistry, 2018 (27), pp. 3195-3202. [10.1002/ejic.201800412](https://doi.org/10.1002/ejic.201800412)
 16. Pérez-Miqueo, J., San Nacianceno, V., Urquiola, F.B., Freixa, Z. Revisiting the iridacycle-catalyzed hydrosilylation of enolizable imines (2018) Catalysis Science and Technology, 8 (24), pp. 6316-6329. [10.1039/c8cy01236a](https://doi.org/10.1039/c8cy01236a)
 17. Hamdaoui, M., Desrousseaux, C., Habbita, H., Djukic, J.-P. Iridacycles as Catalysts for the Autotandem Conversion of Nitriles into Amines by Hydrosilylation: Experimental Investigation and Scope (2017) Organometallics, 36 (24), pp. 4864-4882. [10.1021/acs.organomet.7b00749](https://doi.org/10.1021/acs.organomet.7b00749)

18. Rysak, V., Corre, Y., Agbossou-Niedercorn, F., Michon, C. Pentamethylcyclopentadienyl Ir(III) metallacycles: Recent developments in catalysis (2017) *Chimica Oggi/Chemistry Today*, 35 (5), pp. 27-29.
19. Corre, Y., Trivelli, X., Capet, F., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Efficient and Selective Hydrosilylation of Secondary and Tertiary Amides Catalyzed by an Iridium(III) Metallacycle: Development and Mechanistic Investigation (2017) *ChemCatChem*, 9 (11), pp. 2009-2017. [10.1002/cctc.201700400](https://doi.org/10.1002/cctc.201700400)
20. Li, B., Yu, J., Li, C., Li, Y., Luo, J., Shao, Y. "One pot" synthesis of tertiary amines: Ru(II) catalyzed direct reductive N-benzoylation of imines with benzyl bromide derivatives (2017) *Tetrahedron Letters*, 58 (2), pp. 137-141. [10.1016/j.tetlet.2016.11.112](https://doi.org/10.1016/j.tetlet.2016.11.112)
21. Corre, Y., Werlé, C., Brelot-Karmazin, L., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Regioselective hydrosilylation of terminal alkynes using pentamethylcyclopentadienyl iridium(III) metallacycle catalysts (2016) *Journal of Molecular Catalysis A: Chemical*, 423, pp. 256-263. [10.1016/j.molcata.2016.07.014](https://doi.org/10.1016/j.molcata.2016.07.014)
22. Corre, Y., Rysak, V., Capet, F., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Selective Hydrosilylation of Esters to Aldehydes Catalysed by Iridium(III) Metallacycles through Trapping of Transient Silyl Cations (2016) *Chemistry - A European Journal*, 22 (39), pp. 14036-14041. [10.1002/chem.201602867](https://doi.org/10.1002/chem.201602867)
23. Song, L.-J., Ding, S., Wang, Y., Zhang, X., Wu, Y.-D., Sun, J. Ir-Catalyzed Regio- and Stereoselective Hydrosilylation of Internal Thioalkynes: A Combined Experimental and Computational Study (2016) *Journal of Organic Chemistry*, 81 (15), pp. 6157-6164. [10.1021/acs.joc.6b00854](https://doi.org/10.1021/acs.joc.6b00854)
24. Hamdaoui, M., Ney, M., Sarda, V., Karmazin, L., Bailly, C., Sieffert, N., Dohm, S., Hansen, A., Grimme, S., Djukic, J.-P. Evidence of a Donor-Acceptor (Ir-H)→SiR₃ Interaction in a Trapped Ir(III) Silane Catalytic Intermediate (2016) *Organometallics*, 35 (13), pp. 2207-2223. [10.1021/acs.organomet.6b00248](https://doi.org/10.1021/acs.organomet.6b00248)
25. Michon, C., Macintyre, K., Corre, Y., Agbossou-Niedercorn, F. Pentamethylcyclopentadienyl Iridium(III) Metallacycles Applied to Homogeneous Catalysis for Fine Chemical Synthesis (2016) *ChemCatChem*, 8 (10), pp. 1755-1762. [10.1002/cctc.201600238](https://doi.org/10.1002/cctc.201600238)
26. Lui, E.K.J., Schafer, L.L. Facile Synthesis and Isolation of Secondary Amines via a Sequential Titanium(IV)-Catalyzed Hydroamination and Palladium-Catalyzed Hydrogenation (2016) *Advanced Synthesis and Catalysis*, 358 (5), pp. 713-718. [10.1002/adsc.201500861](https://doi.org/10.1002/adsc.201500861)
27. Hu, X., Martin, D., Bertrand, G. Room temperature hydroamination of alkynes with anilines catalyzed by anti-Bredt di(amino)carbene gold(I) complexes (2016) *New Journal of Chemistry*, 40 (7), pp. 5993-5996. [10.1039/c6nj00980h](https://doi.org/10.1039/c6nj00980h)
28. Li, B., Sortais, J.-B., Darcel, C. Amine synthesis: Via transition metal homogeneous catalysed hydrosilylation (2016) *RSC Advances*, 6 (62), pp. 57603-57625. [10.1039/c6ra10494k](https://doi.org/10.1039/c6ra10494k)
29. Gooßen, L.J., Huang, L., Arndt, M., Gooßen, K., Heydt, H. Late transition metal-catalyzed hydroamination and hydroamidation (2015) *Chemical Reviews*, 115 (7), pp. 2596-2697. [10.1021/cr300389u](https://doi.org/10.1021/cr300389u)
30. Corre, Y., Iali, W., Hamdaoui, M., Trivelli, X., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Efficient hydrosilylation of imines using catalysts based on iridium(III) metallacycles (2015) *Catalysis Science and Technology*, 5 (3), pp. 1452-1458. [10.1039/c4cy01233j](https://doi.org/10.1039/c4cy01233j)
31. Ikeda, Y., Kodama, S., Tsuchida, N., Ishii, Y. Competition between vinylidene rearrangement and 1,2-insertion of carbon-disubstituted internal alkynes at a Cp*Ir(III) complex (2015) *Dalton Transactions*, 44 (40), pp. 17448-17452. [10.1039/c5dt02207j](https://doi.org/10.1039/c5dt02207j)
32. Han, Y.-F., Jin, G.-X. Cyclometalated [Cp*M(C[^]X)] (M = Ir, Rh; X = N, C, O, P) complexes (2014) *Chemical Society Reviews*, 43 (8), pp. 2799-2823. [10.1039/c3cs60343a](https://doi.org/10.1039/c3cs60343a)
33. Zeng, M., Herzon, S.B. Ruthenium-catalyzed anti-markovnikov hydration and reductive hydration of terminal alkynes (2014) *Aldrichimica Acta*, 47 (3), pp. 55-62.
34. Sakai, N., Takahashi, N., Ogiwara, Y. Iridium-catalyzed hydroamination/hydrosilylation of terminal alkynes and aromatic amines through a one-pot, two-step protocol (2014) *European Journal of Organic Chemistry*, 2014 (23), pp. 5078-5082. [10.1002/ejoc.201402544](https://doi.org/10.1002/ejoc.201402544)

35. Zeng, X. Recent advances in catalytic sequential reactions involving hydroelement addition to carbon-carbon multiple bonds (2013) *Chemical Reviews*, 113 (8), pp. 6864-6900. [10.1021/cr400082n](#)
36. Li, J., Wang, C., Xue, D., Wei, Y., Xiao, J. One-pot transformation of alkynes into alcohols and amines with formic acid (2013) *Green Chemistry*, 15 (10), pp. 2685-2689. [10.1039/c3gc41133h](#)
14. **D. N. Sredojević, D. Vojislavljević, Z. D. Tomić and S. D. Zarić, Parallel stacking interactions in square-planar transition metal complexes containing fused chelate and C₆-aromatic rings, *Acta Cryst. B* 68 2012, pp. 261-265.**

Цитиран у:

1. Tan, S.L., Lee, S.M., Lo, K.M., Otero-De-La-Roza, A., Tiekink, E.R.T. Experimental and computational evidence for a stabilising C-Cl(lone-pair)··· π (chelate-ring) interaction (2021) *CrystEngComm*, 23 (1), pp. 119-130. [10.1039/d0ce01478h](#)
2. Castillo, O., Delgado, E., Hernández, D., Hernández, E., Martín, A., Pérez, M., Zamora, F. Synthesis and crystal structures of ion-pairs based on anionic iron-dithiolenes and alkylammonium as counteraction (2019) *Journal of Molecular Structure*, 1196, pp. 323-331. [10.1016/j.molstruc.2019.06.051](#)
3. Taylor, R., Wood, P.A. A Million Crystal Structures: The Whole Is Greater than the Sum of Its Parts (2019) *Chemical Reviews*, 119 (16), pp. 9427-9477. [10.1021/acs.chemrev.9b00155](#)
4. Andrić, J.M., Stanković, I.M., Zarić, S.D. Binding of metal ions and water molecules to nucleic acid bases: The influence of water molecule coordination to a metal ion on water–nucleic acid base hydrogen bonds (2019) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 75, pp. 301-309. [10.1107/S2052520619001999](#)
5. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](#)
6. Malenov, D.P., Veljković, D.Z., Hall, M.B., Brothers, E.N., Zarić, S.D. Influence of chelate ring type on chelate-chelate and chelate-aryl stacking: The case of nickel bis(dithiolene) (2019) *Physical Chemistry Chemical Physics*, 21 (3), pp. 1198-1206. [10.1039/c8cp06312e](#)
7. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate–aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](#)
8. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional C-H··· π (aryl) and unconventional C-H··· π (chelate) interactions in dinuclear Cu(II) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](#)
9. Tiekink, E.R.T. Supramolecular assembly based on “emerging” intermolecular interactions of particular interest to coordination chemists (2017) *Coordination Chemistry Reviews*, 345, pp. 209-228. [10.1016/j.ccr.2017.01.009](#)
10. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](#)
11. McKay, A.P., Lo, W.K.C., Preston, D., Giles, G.I., Crowley, J.D., Barnsley, J.E., Gordon, K.C., McMorran, D.A. Palladium(II) and platinum(II) complexes of ((2-pyridyl)pyrazol-1-ylmethyl)benzoic acids: Synthesis, Solid state characterisation and biological cytotoxicity (2016) *Inorganica Chimica Acta*, 446, pp. 41-53. [10.1016/j.ica.2016.02.038](#)
12. Jurić, M., Molčanov, K., Žilić, D., Kojić-Prodić, B. From mononuclear to linear one-dimensional coordination species of copper(II)-chloranilate: Design and characterization (2016) *RSC Advances*, 6 (67), pp. 62785-62796. [10.1039/c6ra13809h](#)

13. Malenov, D.P., Ninkovic, D.B., Zaric, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](https://doi.org/10.1002/cphc.201402589)
 14. Molčanov, K., Jurić, M., Kojić-Prodić, B. A novel type of coordination mode of chloranilic acid leading to the formation of polymeric coordination ribbon in the series of mixed-ligand copper(ii) complexes with 1,10-phenanthroline (2014) *Dalton Transactions*, 43 (19), pp. 7208-7218. [10.1039/c3dt53332h](https://doi.org/10.1039/c3dt53332h)
 15. Malenov, D.P., Zarić, S.D. Novel parallel stacking interactions of aromatic molecules (2014) *Quantum Nanosystems: Structure, Properties, and Interactions*, pp. 353-381. [10.1201/b17412](https://doi.org/10.1201/b17412)
 16. Janjić, G.V., Ninković, D.B., Zarić, S.D. Influence of supramolecular structures in crystals on parallel stacking interactions between pyridine molecules (2013) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 69 (4), pp. 389-394. [10.1107/S2052519213013961](https://doi.org/10.1107/S2052519213013961)
 17. Akine, S., Varadi, Z., Nabeshima, T. Synthesis of planar metal complexes and the stacking abilities of naphthalenediol-based acyclic and macrocyclic salen-type ligands (2013) *European Journal of Inorganic Chemistry*, (35), pp. 5987-5998. [10.1002/ejic.201300917](https://doi.org/10.1002/ejic.201300917)
 18. Molčanov, K., Jurić, M., Kojić-Prodić, B. Stacking of metal chelating rings with π -systems in mononuclear complexes of copper(ii) with 3,6-dichloro-2,5-dihydroxy-1,4-benzoquinone (chloranilic acid) and 2,2'-bipyridine ligands (2013) *Dalton Transactions*, 42 (44), pp. 15756-15765. [10.1039/c3dt51734a](https://doi.org/10.1039/c3dt51734a)
 19. Constable, E.C., Housecroft, C.E., Neuburger, M., Schönle, J., Vujovic, S., Zampese, J.A. Molecular recognition between 4'-(4-biphenyl)-4,2':6', 4''-terpyridine domains in the assembly of d9 and d10 metal ion-containing one-dimensional coordination polymers (2013) *Polyhedron*, 60, pp. 120-129. [10.1016/j.poly.2013.05.026](https://doi.org/10.1016/j.poly.2013.05.026)
15. D. B. Ninković, G. V. Janjić, D. Ž. Veljković, **D. N. Sredojević**, S. D. Zarić, **What are the Preferred Horizontal Displacements in Parallel Aromatic-Aromatic Interactions? Significant Interactions at Large Displacements**, *ChemPhysChem*. 2011, 12, pp. 3511-3514.

Цитиран у:

1. Jovanović, N., Etinski, M., Stanković, I.M. Fractal nature of benzene stacking interactions (2023) *Journal of Molecular Modeling*, 29 (9), art. no. 287. [10.1007/s00894-023-05689-z](https://doi.org/10.1007/s00894-023-05689-z)
2. Marković, Z., Komolkin, A.V., Egorov, A.V., Milenković, D., Jeremić, S. Alizarin as a potential protector of proteins against damage caused by hydroperoxyl radical (2023) *Chemico-Biological Interactions*, 373, art. no. 110395. [10.1016/j.cbi.2023.110395](https://doi.org/10.1016/j.cbi.2023.110395)
3. Liu, Q., Cheng, Y., Liu, S., Chen, Z.-Y., Zhang, Y.-Z. Anthryl-functionalized cyanide-bridged Fe/Co cubes (2023) *Dalton Transactions*. [10.1039/d3dt01630g](https://doi.org/10.1039/d3dt01630g)
4. Jyai, R.N., Näther, C., Bensch, W., Srinivasan, B.R. Structural characterization of sodium and potassium 3-nitrohydrogenphthalate coordination polymers (2022) *Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences*, 77 (6), pp. 433-440. [10.1515/znb-2022-0049](https://doi.org/10.1515/znb-2022-0049)
5. Karunathilaka, D., Rajapakse, R.M.G., Hardin, A.E., Sexton, T.M., Sparks, N.E., Mosely, J.J., Rheingold, A.L., Hammer, N.I., Tschumper, G.S., Watkins, D.L. Correlation of solid-state order to optoelectronic behavior in heterocyclic oligomers (2022) *CrystEngComm*, 24 (25), pp. 4564-4572. [10.1039/d2ce00560c](https://doi.org/10.1039/d2ce00560c)
6. Parsekar, N.U., Narvekar, K.U., Srinivasan, B.R. Synthesis and structural characterization of three new mixed ligand alkaline-earth metal picrates (2022) *Zeitschrift fur Naturforschung - Section B Journal of Chemical Sciences*, 77 (4-5), pp. 211-219. [10.1515/znb-2022-0003](https://doi.org/10.1515/znb-2022-0003)
7. Tan, S.L., Cardoso, L.N.F., De Souza, M.V.N., Wardell, S.M.S.V., Wardell, J.L., Tiekink, E.R.T. Experimental and computational evidence for stabilising parallel, offset $\pi[C(O)N(H)NC] \cdots \pi(\text{phenyl})$ interactions in acetohydrazide derivatives (2022) *CrystEngComm*, 24 (5), pp. 962-974. [10.1039/d1ce01492g](https://doi.org/10.1039/d1ce01492g)

8. Pidcock, E., Sadiq, G., Stevens, J.S., Willacy, R.D. Aromatic Interactions in the Cambridge Structural Database: Comparison of Interaction Geometries and Investigation of Molecular Descriptors as an Indicator of Strong Interactions (2022) *Crystal Growth and Design*, 22 (1), pp. 788-802. [10.1021/acs.cgd.1c01293](https://doi.org/10.1021/acs.cgd.1c01293)
9. Parsekar, N.U., Hathwar, V.R., Narvekar, K.U., Srinivasan, B.R. Synthesis, crystal structures and properties of six new mixed ligand cobalt(II) 4-nitrobenzoates (2022) *Journal of Coordination Chemistry*, 75 (9-10), pp. 1396-1415. [10.1080/00958972.2022.2100989](https://doi.org/10.1080/00958972.2022.2100989)
10. Petković Benazzouz, M.M., Rakić, A.A., Trišović, N.P., Zarić, B.L., Janjić, G.V. Supramolecular Perspective of Coordination Effects on Fluorine Interactions (2021) *Crystal Growth and Design*, 21 (11), pp. 6129-6142. [10.1021/acs.cgd.1c00584](https://doi.org/10.1021/acs.cgd.1c00584)
11. Filipović, J.P.B., Zarić, S.D. Significant Stacking Interactions of Resonance-Assisted Hydrogen-Bridged (RAHB) Rings at Large Horizontal Displacements (2021) *Crystal Growth and Design*, 21 (9), pp. 4947-4958. [10.1021/acs.cgd.1c00392](https://doi.org/10.1021/acs.cgd.1c00392)
12. Živković, J.M., Stanković, I.M., Ninković, D.B., Zarić, S.D. Decisive Influence of Environment on Aromatic/Aromatic Interaction Geometries. Comparison of Aromatic/Aromatic Interactions in Crystal Structures of Small Molecules and in Protein Structures (2021) *Crystal Growth and Design*, 21 (4), pp. 1898-1904. [10.1021/acs.cgd.0c01514](https://doi.org/10.1021/acs.cgd.0c01514)
13. Gak Simić, K., Đorđević, I., Lazić, A., Radovanović, L., Petković-Benazzouz, M., Rogan, J., Trišović, N., Janjić, G. On the supramolecular outcomes of fluorination of cyclohexane-5-spirohydantoin derivatives (2021) *CrystEngComm*, 23 (13), pp. 2606-2622. [10.1039/d0ce01841d](https://doi.org/10.1039/d0ce01841d)
14. Tiekink, E.R.T. Supramolecular architectures sustained by delocalised C-I... π (arene) interactions in molecular crystals and the propensity of their formation (2021) *CrystEngComm*, 23 (4), pp. 904-928. [10.1039/d0ce01677b](https://doi.org/10.1039/d0ce01677b)
15. Malenov, D.P., Zarić, S.D. Stacking interactions of aromatic ligands in transition metal complexes (2020) *Coordination Chemistry Reviews*, 419, art. no. 213338. [10.1016/j.ccr.2020.213338](https://doi.org/10.1016/j.ccr.2020.213338)
16. Malenov, D.P., Zarić, S.D. Stacking Interactions between Indenyl Ligands of Transition Metal Complexes: Crystallographic and Density Functional Study (2020) *Crystal Growth and Design*, 20 (7), pp. 4491-4502. [10.1021/acs.cgd.0c00303](https://doi.org/10.1021/acs.cgd.0c00303)
17. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interactions of resonance-assisted hydrogen-bridged rings and C6-aromatic rings (2020) *Physical Chemistry Chemical Physics*, 22 (24), pp. 13721-13728. [10.1039/d0cp01624a](https://doi.org/10.1039/d0cp01624a)
18. Malenov, D.P., Zarić, S.D. Strong stacking interactions at large horizontal displacements of tropylium and cyclooctatetraenide ligands of transition metal complexes: crystallographic and DFT study (2020) *CrystEngComm*, 22 (22), pp. 3831-3839. [10.1039/d0ce00501k](https://doi.org/10.1039/d0ce00501k)
19. Lazić, A.M., Đorđević, I.S., Radovanović, L.D., Popović, D.M., Rogan, J.R., Janjić, G.V., Trišović, N.P. Self-Assembly and Biorecognition of a Spirohydantoin Derived from α -Tetralone: Interplay between Chirality and Intermolecular Interactions (2020) *ChemPlusChem*, 85 (6), pp. 1220-1232. [10.1002/cplu.202000273](https://doi.org/10.1002/cplu.202000273)
20. Maroń, A.M., Choroba, K., Małecki, J.G., Kula, S., Malicka, E. Platinum(II) coordination compound with 4'-[4-(dimethylamino)phenyl]-2,2':6',2''-terpyridine – The new insight into the luminescence behavior and substituent effect (2020) *Polyhedron*, 182, art. no. 114502. [10.1016/j.poly.2020.114502](https://doi.org/10.1016/j.poly.2020.114502)
21. Ristić, P., Blagojević, V., Janjić, G., Rodić, M., Vulić, P., Donnard, M., Gulea, M., Chylewska, A., Makowski, M., Todorović, T., Filipović, N. Influence of C-H/X (X = S, Cl, N, Pt/Pd) Interactions on the Molecular and Crystal Structures of Pt(II) and Pd(II) Complexes with Thiomorpholine-4-carbonitrile: Crystallographic, Thermal, and DFT Study (2020) *Crystal Growth and Design*, 20 (5), pp. 3018-3033. [10.1021/acs.cgd.9b01661](https://doi.org/10.1021/acs.cgd.9b01661)
22. Janjić, G.V., Jelić, S.T., Trišović, N.P., Popović, D.M., Dorđević, I.S., Milčić, M.K. New Theoretical Insight into Fluorination and Fluorine-Fluorine Interactions as a Driving Force in Crystal Structures (2020) *Crystal Growth and Design*, 20 (5), pp. 2943-2951. [10.1021/acs.cgd.9b01565](https://doi.org/10.1021/acs.cgd.9b01565)

23. Malenov, D.P., Blagojevic Filipovic, J.P., Zarić, S.D. Stacking interactions of the methylated cyclopentadienyl ligands in the crystal structures of transition metal complexes (2020) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 76, pp. 252-258. [10.1107/S2052520620002206](https://doi.org/10.1107/S2052520620002206)
24. Ninković, D.B., Blagojević Filipović, J.P., Hall, M.B., Brothers, E.N., Zarić, S.D. What Is Special about Aromatic-Aromatic Interactions? Significant Attraction at Large Horizontal Displacement (2020) *ACS Central Science*, 6 (3), pp. 420-425. [10.1021/acscentsci.0c00005](https://doi.org/10.1021/acscentsci.0c00005)
25. Kuš, P., Kusz, J., Książek, M. Aromatic C–H \cdots π , C–H \cdots O and parallel aromatic–aromatic interactions in the crystal structure of meso-tetrakis[4-(benzyloxy)phenyl]porphyrin (2020) *Journal of Chemical Crystallography*, 50 (1), pp. 21-27. [10.1007/s10870-018-0752-0](https://doi.org/10.1007/s10870-018-0752-0)
26. Živković, J.M., Stanković, I.M., Ninković, D.B., Zarić, S.D. Phenol and Toluene Stacking Interactions, including Interactions at Large Horizontal Displacements. Study of Crystal Structures and Calculation of Potential Energy Surfaces (2020) *Crystal Growth and Design*, 20 (2), pp. 1025-1034. [10.1021/acs.cgd.9b01353](https://doi.org/10.1021/acs.cgd.9b01353)
27. Sebghati, M., Tarahhomi, A., Kozakiewicz, A. Association of Non-covalent Interactions C–H \cdots X (X=O, F, Cl, π) and Cl \cdots π with Hydrogen Bond Interactions N–H \cdots O in Molecular Assembly of New Phosphoramides: A Combined X-Ray Crystallography and Topology (AIM and Hirshfeld) Analysis (2020) *ChemistrySelect*, 5 (1), pp. 185-195. [10.1002/slct.201903565](https://doi.org/10.1002/slct.201903565)
28. Joksimović, N., Janković, N., Petronijević, J., Baskić, D., Popovic, S., Todorović, D., Zarić, M., Klisurić, O., Vraneš, M., Tot, A., Bugarčić, Z. Synthesis, anticancer evaluation and synergistic effects with cisplatin of novel palladium complexes: DNA, BSA interactions and molecular docking study (2020) *Medicinal Chemistry*, 16 (1), pp. 78-92. [10.2174/1573406415666190128095732](https://doi.org/10.2174/1573406415666190128095732)
29. Filipović, N.R., Ristić, P., Janjić, G., Klisurić, O., Puerta, A., Padrón, J.M., Donnard, M., Gulea, M., Todorović, T.R. Silver-based monomer and coordination polymer with organic thiocyanate ligand: Structural, computational and antiproliferative activity study (2019) *Polyhedron*, 173, art. no. 114132, . [10.1016/j.poly.2019.114132](https://doi.org/10.1016/j.poly.2019.114132)
30. Jabbar, R., Michaud, F., Kamoun, S. Synthesis and investigation of structural, optical, dielectric and electronic properties of a new hybrid: [C₁₃H₂₁N₂O₂](Cd(SCN)₃) (2019) *Chemical Papers*, 73 (6), pp. 1389-1399. [10.1007/s11696-019-00691-3](https://doi.org/10.1007/s11696-019-00691-3)
31. Trišović, N., Radovanović, L., Janjić, G.V., Jelić, S.T., Rogan, J. Substituent Effects on the Patterns of Intermolecular Interactions of 3-Alkyl and 3-Cycloalkyl Derivatives of Phenytoin: A Crystallographic and Quantum-Chemical Study (2019) *Crystal Growth and Design*, 19 (4), pp. 2163-2174. [10.1021/acs.cgd.8b01776](https://doi.org/10.1021/acs.cgd.8b01776)
32. Banerjee, A., Saha, A., Saha, B.K. Understanding the Behavior of π - π Interactions in Crystal Structures in Light of Geometry Corrected Statistical Analysis: Similarities and Differences with the Theoretical Models (2019) *Crystal Growth and Design*, 19 (4), pp. 2245-2252. [10.1021/acs.cgd.8b01857](https://doi.org/10.1021/acs.cgd.8b01857)
33. Malenov, D.P., Zarić, S.D. Stacking interactions between ruthenium: P -cymene complexes: Combined crystallographic and density functional study (2019) *CrystEngComm*, 21 (47), pp. 7204-7210. [10.1039/c9ce01290g](https://doi.org/10.1039/c9ce01290g)
34. Malenov, D.P., Aladić, A.J., Zarić, S.D. Stacking interactions of borazine: Important stacking at large horizontal displacements and dihydrogen bonding governed by electrostatic potentials of borazine (2019) *Physical Chemistry Chemical Physics*, 21 (44), pp. 24554-24564. [10.1039/c9cp02966d](https://doi.org/10.1039/c9cp02966d)
35. Choroba, K., MacHura, B., Raposo, L.R., Małecki, J.G., Kula, S., Pajak, M., Erfurt, K., Maroń, A.M., Fernandes, A.R. Platinum(II) complexes showing high cytotoxicity toward A2780 ovarian carcinoma cells (2019) *Dalton Transactions*, 48 (34), pp. 13081-13093. [10.1039/c9dt02894c](https://doi.org/10.1039/c9dt02894c)
36. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)

37. Malenov, D.P., Veljković, D.Z., Hall, M.B., Brothers, E.N., Zarić, S.D. Influence of chelate ring type on chelate-chelate and chelate-aryl stacking: The case of nickel bis(dithiolene) (2019) *Physical Chemistry Chemical Physics*, 21 (3), pp. 1198-1206. [10.1039/c8cp06312e](https://doi.org/10.1039/c8cp06312e)
38. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate-aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](https://doi.org/10.1002/qua.25629)
39. Milovanović, M.M., Andrić, J.M., Medaković, V.B., Djukic, J.-P., Zarić, S.D. Investigation of interactions in Lewis pairs between phosphines and boranes by analyzing crystal structures from the Cambridge Structural Database (2018) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 74 (3), pp. 255-263. [10.1107/S2052520618003736](https://doi.org/10.1107/S2052520618003736)
40. Božinovski, D.M., Petrović, P.V., Belić, M.R., Zarić, S.D. Insight into the Interactions of Amyloid β -Sheets with Graphene Flakes: Scrutinizing the Role of Aromatic Residues in Amyloids that Interact with Graphene (2018) *ChemPhysChem*, 19 (10), pp. 1226-1233. [10.1002/cphc.201700847](https://doi.org/10.1002/cphc.201700847)
41. Lutz, P.B., Bayse, C.A. Interpreting geometric preferences in π -stacking interactions through molecular orbital analysis (2018) *International Journal of Quantum Chemistry*, 118 (7), art. no. e25513. [10.1002/qua.25513](https://doi.org/10.1002/qua.25513)
42. Andrić, J.M., Antonijević, I.S., Janjić, G.V., Zarić, S.D. Influence of hydrogen bonds on edge-to-face interactions between pyridine molecules (2018) *Journal of Molecular Modeling*, 24 (3), art. no. 60. [10.1007/s00894-017-3570-y](https://doi.org/10.1007/s00894-017-3570-y)
43. Veljković, D.Ž. Strong C–H/O interactions between polycyclic aromatic hydrocarbons and water: Influence of aromatic system size (2018) *Journal of Molecular Graphics and Modelling*, 80, pp. 121-125. [10.1016/j.jmgm.2017.12.014](https://doi.org/10.1016/j.jmgm.2017.12.014)
44. Malenov, D.P., Antonijević, I.S., Hall, M.B., Zarić, S.D. Stacking of cyclopentadienyl organometallic sandwich and half-sandwich compounds. Strong interactions of sandwiches at large offsets (2018) *CrystEngComm*, 20 (31), pp. 4506-4514. [10.1039/c8ce00597d](https://doi.org/10.1039/c8ce00597d)
45. Malenov, D.P., Zarić, S.D. Chelated metal ions modulate the strength and geometry of stacking interactions: Energies and potential energy surfaces for chelate-chelate stacking (2018) *Physical Chemistry Chemical Physics*, 20 (20), pp. 14053-14060. [10.1039/c7cp06262a](https://doi.org/10.1039/c7cp06262a)
46. Stanković, I.M., Božinovski, D.M., Brothers, E.N., Belić, M.R., Hall, M.B., Zarić, S.D. Interactions of aromatic residues in amyloids: A survey of protein data bank crystallographic data (2017) *Crystal Growth and Design*, 17 (12), pp. 6353-6362. [10.1021/acs.cgd.7b01035](https://doi.org/10.1021/acs.cgd.7b01035)
47. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
48. Taylor, R. Progress in the Understanding of Traditional and Nontraditional Molecular Interactions (2017) *Comprehensive Medicinal Chemistry III*, 3-8, pp. 67-100. [10.1016/B978-0-12-409547-2.12340-6](https://doi.org/10.1016/B978-0-12-409547-2.12340-6)
49. Malenov, D.P., Antonijević, I.S., Zarić, S.D. Large horizontal displacements of benzene-benzene stacking interactions in co-crystals (2017) *Multi-Component Crystals: Synthesis, Concepts, Function*, pp. 255-271. [10.1515/9783110464955-011](https://doi.org/10.1515/9783110464955-011)
50. Hisaki, I., Emilya Affendy, N.Q., Tohnai, N. Precise elucidations of stacking manners of hydrogen-bonded two-dimensional organic frameworks composed of X-shaped π -conjugated systems (2017) *CrystEngComm*, 19 (33), pp. 4892-4898. [10.1039/c7ce00183e](https://doi.org/10.1039/c7ce00183e)
51. Blagojević, J.P., Veljković, D., Zarić, S.D. Stacking interactions between hydrogen-bridged and aromatic rings: study of crystal structures and quantum chemical calculations (2017) *CrystEngComm*, 19 (1), pp. 40-46. [10.1039/c6ce02045c](https://doi.org/10.1039/c6ce02045c)
52. Malenov, D.P., Dragelj, J.L., Janjić, G.V., Zarić, S.D. Coordinating benzenes stack stronger than noncoordinating benzenes, even at large horizontal displacements (2016) *Crystal Growth and Design*, 16 (8), pp. 4169-4172. [10.1021/acs.cgd.5b01514](https://doi.org/10.1021/acs.cgd.5b01514)
53. Sierański, T. The intricacies of the stacking interaction in a pyrrole-pyrrole system (2016) *Structural Chemistry*, 27 (4), pp. 1107-1120. [10.1007/s11224-015-0732-3](https://doi.org/10.1007/s11224-015-0732-3)

54. Malenov, D.P., Zarić, S.D. Parallel Interactions of Aromatic Molecules at Large Horizontal Displacements (2016) *Non-covalent Interactions in the Synthesis and Design of New Compounds*, pp. 241-260. [10.1002/9781119113874.ch14](#)
 55. Blagojević, J.P., Janjić, G.V., Zarić, S.D. Very strong parallel interactions between two saturated acyclic groups closed with intramolecular hydrogen bonds forming hydrogen-bridged rings (2016) *Crystals*, 6 (4), art. no. 34. [10.3390/cryst6040034](#)
 56. Antonijević, I.S., Janjić, G.V., Milčić, M.K., Zarić, S.D. Preferred Geometries and Energies of Sulfur-Sulfur Interactions in Crystal Structures (2016) *Crystal Growth and Design*, 16 (2), pp. 632-639. [10.1021/acs.cgd.5b01058](#)
 57. Zhu, F.-F., Fang, J.-F., Xiong, Y.-J., Cheng, Q., Li, Y., Yue, S.-T. Synthesis, structure and unprecedented self-assembly strategy of two six-membered Zn-organic macrocycles (2016) *Inorganic Chemistry Communications*, 64, pp. 71-73. [10.1016/j.inoche.2015.12.021](#)
 58. Malenov, D.P., Zarić, S.D. Parallel interactions of aromatic and heteroaromatic molecules [Paralelne interakcije aromatičnih i heteroaromatičnih molekula] (2016) *Hemijska Industrija*, 70 (6), pp. 649-659. [10.2298/HEMIND151009003M](#)
 59. Blagojević, J.P., Zarić, S.D. Stacking interactions of hydrogen-bridged rings-stronger than the stacking of benzene molecules (2015) *Chemical Communications*, 51 (65), pp. 12989-12991. [10.1039/c5cc04139b](#)
 60. Kundu, A., Sen, S., Patwari, G.N. The propargylbenzene dimer: C-H... π assisted π - π Stacking (2015) *Physical Chemistry Chemical Physics*, 17 (14), pp. 9090-9097. [10.1039/c5cp00162e](#)
 61. Malenov, D.P., Ninkovic, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](#)
 62. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](#)
 63. Vojislavljević-Vasilev, D.Z., Janjić, G.V., Medaković, V.B., Blagojević, J.P., Zarić, S.D. Parallel water/aromatic interactions of non-coordinated and coordinated water (2014) *ChemPhysChem*, 15 (11), pp. 2386-2396. [10.1002/cphc.201402004](#)
 64. Thio, Y., Toh, S.W., Xue, F., Vittal, J.J. Self-assembly of a 15-nickel metallamacrocyclic complex derived from the l-glutamic acid Schiff base ligand (2014) *Journal of the Chemical Society. Dalton Transactions*, 43 (16), pp. 5998-6001. [10.1039/c4dt00257a](#)
 65. Malenov, D.P., Zarić, S.D. Novel parallel stacking interactions of aromatic molecules (2014) *Quantum Nanosystems: Structure, Properties, and Interactions*, pp. 353-381. [10.1201/b17412](#)
 66. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/ π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](#)
16. **D. N. Sredojević**, Z. D. Tomić, S. D. Zarić, **Evidence of Chelate-Chelate Stacking Interactions in Crystal Structures of Transition-Metal Complexes**, *Crystal Growth & Design*, 2010, 10(9), pp. 3901-3908.

Цитиран у:

1. Singh, A.P., Baruah, J.B. π -Stacking among the Anthracenyl Groups of a Copper Complex Resulted in Doubling of Unit Cell Volume To Provide New Polymorphs (2023) *ACS Omega*, 8 (33), pp. 30776-30787. [10.1021/acsomega.3c05132](#)
2. Diyali, N., Chettri, M., De, A., Panda, S.J., Purohit, C.S., Biswas, B. Lattice-water tweaked Cis-Trans isomerism of a copper(II)-dipyridylamine-azide complex and their aggregation features (2023) *Giant*, 15, art. no. 100167. [10.1016/j.giant.2023.100167](#)

3. Chang, Y., Qin, H., Zhang, F., Yang, Z., Zhang, Y., Wang, D., Bi, C., Guo, M., Sun, W., Qing, G. Halogen Bond-Driven Aggregation-Induced Emission Skeleton: N-(3-(Phenylamino)allylidene) Aniline Hydrochloride (2022) ACS Applied Materials and Interfaces. [10.1021/acsami.2c21073](https://doi.org/10.1021/acsami.2c21073)
4. Liu, H., Yu, R., Bai, Y., Zeng, Y., Yi, Y., Lin, J., Hou, J., Tan, Z. Size-Controllable Metal Chelates as Both Light Scattering Centers and Electron Collection Layer for High-Performance Polymer Solar Cells (2021) CCS Chemistry, 3 (10), pp. 37-49. [10.31635/ccschem.021.202000550](https://doi.org/10.31635/ccschem.021.202000550)
5. Jaćimović, Ž.K., Tomić, Z.D., Giester, G., Libowitzky, E., Ajanović, A., Kosović, M. The crystal structure of bis[4-bromo-2-(1H-pyrazol-3-yl) phenolato- κ 2N,O] copper(II), C₁₈H₁₂Br₂CuN₄O₂ (2021) Zeitschrift fur Kristallographie - New Crystal Structures, 236 (5), pp. 1003-1005. [10.1515/ncrs-2021-0191](https://doi.org/10.1515/ncrs-2021-0191)
6. Vikulova, E.S., Karakovskaya, K.I., Ilyin, I.Y., Kovaleva, E.A., Pirayezov, D.A., Zelenina, L.N., Sysoev, S.V., Morozova, N.B., Zherikova, K.V. "Vitruvian" precursor for gas phase deposition: structural insights into iridium β -diketonate volatilities (2021) Physical Chemistry Chemical Physics, 23 (16), pp. 9889-9899. [10.1039/d1cp00464f](https://doi.org/10.1039/d1cp00464f)
7. Tan, S.L., Lee, S.M., Lo, K.M., Otero-De-La-Roza, A., Tiekink, E.R.T. Experimental and computational evidence for a stabilising C-Cl(lone-pair)··· π (chelate-ring) interaction (2021) CrystEngComm, 23 (1), pp. 119-130. [10.1039/d0ce01478h](https://doi.org/10.1039/d0ce01478h)
8. Maity, S., Ghosh, T.K., Gomila, R.M., Frontera, A., Ghosh, A. Recurrent π (arene)··· π (chelate ring) motifs in four trinuclear CuII2MII(M = Cd/Zn) complexes derived from an unsymmetrical N₂O₂ donor ligand: Structural and theoretical investigations (2020) CrystEngComm, 22 (44), pp. 7673-7683. [10.1039/d0ce01219j](https://doi.org/10.1039/d0ce01219j)
9. Madni, M., Ahmed, M.N., Hafeez, M., Ashfaq, M., Tahir, M.N., Gil, D.M., Galmés, B., Hameed, S., Frontera, A. Recurrent π - π stacking motifs in three new 4,5-dihydropyrazolyl-thiazole-coumarin hybrids: X-ray characterization, Hirshfeld surface analysis and DFT calculations (2020) New Journal of Chemistry, 44 (34), pp. 14592-14603. [10.1039/d0nj02931a](https://doi.org/10.1039/d0nj02931a)
10. Singh, Y., Patel, R.N., Patel, S.K., Jadeja, R.N., Patel, A.K., Patel, N., Roy, H., Bhagriya, P., Singh, R., Butcher, R.J., Jasinski, J.P., Herrero, S., Cortijo, M. Supramolecular assemblies of new pseudohalide end-to-end bridged copper(II) complex and molecular structural variety of penta and hexa-coordinated metal(II) complexes with hydrazido-based ligand (2020) Inorganica Chimica Acta, 503, art. no. 119371. [10.1016/j.ica.2019.119371](https://doi.org/10.1016/j.ica.2019.119371)
11. Joksimović, N., Janković, N., Petronijević, J., Baskić, D., Popovic, S., Todorović, D., Zarić, M., Klisurić, O., Vraneš, M., Tot, A., Bugarčić, Z. Synthesis, anticancer evaluation and synergistic effects with cisplatin of novel palladium complexes: DNA, BSA interactions and molecular docking study (2020) Medicinal Chemistry, 16 (1), pp. 78-92. [10.2174/1573406415666190128095732](https://doi.org/10.2174/1573406415666190128095732)
12. Jebastin Andrews, S.G., Benita Jeba Silviya, S., Bhuvanesh, N.S.P., Janet Sylvia Jaba Rose, J., Winfred Jebaraj, J., Balakrishnan, C. Crystal structure and evaluating C[σ]-H··· π (aryl/chelate) interactions in bis(2-[(2-hydroxyethyl)imino]-methyl)-4,6-diiodophenolato)-palladium(II) Schiff base complex derived from (E)-2-(((2-hydroxyethyl)imino)methyl)-4,6-diiodophenol (2019) Inorganica Chimica Acta, 498, art. no. 119118, . [10.1016/j.ica.2019.119118](https://doi.org/10.1016/j.ica.2019.119118)
13. Dey, S., Sil, S., Dutta, B., Naskar, K., Maity, S., Ray, P.P., Sinha, C. Designing of Pb(II)-Based Novel Coordination Polymers (CPs): Structural Elucidation and Optoelectronic Application (2019) ACS Omega, 4 (22), pp. 19959-19968. [10.1021/acsomega.9b02899](https://doi.org/10.1021/acsomega.9b02899)
14. Jung, H., Schrader, M., Kim, D., Baik, M.-H., Park, Y., Chang, S. Harnessing Secondary Coordination Sphere Interactions That Enable the Selective Amidation of Benzylic C-H Bonds (2019) Journal of the American Chemical Society, 141 (38), pp. 15356-15366. [10.1021/jacs.9b07795](https://doi.org/10.1021/jacs.9b07795)
15. Taylor, R., Wood, P.A. A Million Crystal Structures: The Whole Is Greater than the Sum of Its Parts (2019) Chemical Reviews, 119 (16), pp. 9427-9477. [10.1021/acs.chemrev.9b00155](https://doi.org/10.1021/acs.chemrev.9b00155)
16. Kowalik, M., Masternak, J., Kazimierzczuk, K., Khavryuchenko, O.V., Kupciewicz, B., Barszcz, B. An unusual four-nuclear Pb(II)-pyrrole-2-carboxylato polymer: The effect of the lone pair and non-covalent

- interactions on the supramolecular assembly and fluorescence properties (2019) *Journal of Solid State Chemistry*, 273, pp. 207-218. [10.1016/j.jssc.2019.03.007](https://doi.org/10.1016/j.jssc.2019.03.007)
17. Ahmed, F., Ghosh, S.R., Halder, S., Guin, S., Alam, S.M., Ray, P.P., Jana, A.D., Mir, M.H. Metal-ligand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device (2019) *New Journal of Chemistry*, 43 (6), pp. 2710-2717. [10.1039/C8NJ05526B](https://doi.org/10.1039/C8NJ05526B)
 18. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
 19. Malenov, D.P., Veljković, D.Z., Hall, M.B., Brothers, E.N., Zarić, S.D. Influence of chelate ring type on chelate-chelate and chelate-aryl stacking: The case of nickel bis(dithiolene) (2019) *Physical Chemistry Chemical Physics*, 21 (3), pp. 1198-1206. [10.1039/c8cp06312e](https://doi.org/10.1039/c8cp06312e)
 20. Dutta, B., Sinha, C., Mir, M.H. Synthesis and crystal structure of a CdII-based 2D coordination polymer and determination of band gap (2018) *Journal of the Indian Chemical Society*, 95 (12), pp. 1535-1540.
 21. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate-aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](https://doi.org/10.1002/qua.25629)
 22. Mahapatra, P., Bauzá, A., Frontera, A., Drew, M.G.B., Ghosh, A. Syntheses of four new asymmetric Schiff bases and their Cu(II) complexes: Theoretical calculations to rationalize the packing of molecules in the crystals (2018) *Inorganica Chimica Acta*, 477, pp. 89-101. [10.1016/j.ica.2018.01.035](https://doi.org/10.1016/j.ica.2018.01.035)
 23. Chen, T., Li, M., Liu, J. π - π Stacking Interaction: A Nondestructive and Facile Means in Material Engineering for Bioapplications (2018) *Crystal Growth and Design*, 18 (5), pp. 2765-2783. [10.1021/acs.cgd.7b01503](https://doi.org/10.1021/acs.cgd.7b01503)
 24. Dutta, B., Pratik, S.M., Jana, S., Sinha, C., Datta, A., Mir, M.H. Novel Br $\cdots\pi$ (Chelate) Interaction in a 1D Coordination Polymer Revealing Aromaticity (2018) *ChemistrySelect*, 3 (16), pp. 4289-4291. [10.1002/slct.201800738](https://doi.org/10.1002/slct.201800738)
 25. Yaman, P.K., Erer, H. Novel coordination compounds based on 2-methylimidazole and 2,2'-dimethylglutarate: Synthesis and characterization (2018) *Journal of the Turkish Chemical Society, Section A: Chemistry*, 5 (2), pp. 953-962. [10.18596/JOTCSA.420361](https://doi.org/10.18596/JOTCSA.420361)
 26. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional C-H $\cdots\pi$ (aryl) and unconventional C-H $\cdots\pi$ (chelate) interactions in dinuclear Cu(ii) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](https://doi.org/10.1039/c8nj00747k)
 27. Malenov, D.P., Zarić, S.D. Chelated metal ions modulate the strength and geometry of stacking interactions: Energies and potential energy surfaces for chelate-chelate stacking (2018) *Physical Chemistry Chemical Physics*, 20 (20), pp. 14053-14060. [10.1039/c7cp06262a](https://doi.org/10.1039/c7cp06262a)
 28. Karakovskaya, K.I., Vikulova, E.S., Piryazev, D.A., Morozova, N.B. Structure and thermal properties of (1,1,1-trifluoro-4-methyliminopentanoato-2) (cyclooctadiene-1,5)iridium(I) (2017) *Journal of Structural Chemistry*, 58 (7), pp. 1427-1431. [10.1134/S0022476617070216](https://doi.org/10.1134/S0022476617070216)
 29. Tiekink, E.R.T. Supramolecular assembly based on “emerging” intermolecular interactions of particular interest to coordination chemists (2017) *Coordination Chemistry Reviews*, 345, pp. 209-228. [10.1016/j.ccr.2017.01.009](https://doi.org/10.1016/j.ccr.2017.01.009)
 30. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
 31. Di Santo, A., Echeverría, G.A., Piro, O.E., Pérez, H., Ben Altabef, A., Gil, D.M. Supramolecular architectures in luminescent Zn(II) and Cd(II) complexes containing imidazole derivatives: Crystal structures, vibrational and thermal properties, Hirshfeld surface analysis and electrostatic potentials (2017) *Journal of Molecular Structure*, 1134, pp. 492-503. [10.1016/j.molstruc.2017.01.028](https://doi.org/10.1016/j.molstruc.2017.01.028)

32. Jana, S., Khan, S., Bauzá, A., Frontera, A., Chattopadhyay, S. The crucial role of chelate-chelate stacking interactions in the crystal structure of a square planar copper(II) complex (2017) *Journal of Molecular Structure*, 1127, pp. 355-360. [10.1016/j.molstruc.2016.07.062](https://doi.org/10.1016/j.molstruc.2016.07.062)
33. Marcos, I., Ojea, V., Vázquez-García, D., Fernández, J.J., Fernández, A., López-Torres, M., Lado, J., Vila, J.M. Preparation and characterization of terdentate [C,N,N] acetophenone and acetylpyridine hydrazone platinacycles: A DFT insight into the reaction mechanism (2017) *Dalton Transactions*, 46 (48), pp. 16845-16860. [10.1039/c7dt03418k](https://doi.org/10.1039/c7dt03418k)
34. Singh, Y., Patel, R.N., Singh, Y.P., Patel, A.K., Patel, N., Singh, R., Butcher, R.J., Jasinski, J.P., Colacio, E., Palacios, M.A. Unprecedented tetranuclear complexes with "weighing balance shaped" topology: Single crystal structures, unusual EPR spectra, magnetic properties and antioxidant activity (2017) *Dalton Transactions*, 46 (35), pp. 11860-11874. [10.1039/c7dt02595e](https://doi.org/10.1039/c7dt02595e)
35. Roy, S., Drew, M.G.B., Bauzá, A., Frontera, A., Chattopadhyay, S. Estimation of conventional C-H $\cdots\pi$ (arene), unconventional C-H $\cdots\pi$ (chelate) and C-H $\cdots\pi$ (thiocyanate) interactions in hetero-nuclear nickel(II)-cadmium(II) complexes with a compartmental Schiff base (2017) *Dalton Transactions*, 46 (16), pp. 5384-5397. [10.1039/c6dt04906k](https://doi.org/10.1039/c6dt04906k)
36. Gurumoorthy, G., Thirumaran, S. Synthesis, spectral, structural, and DFT studies on nickel(II) complexes with pyrrole based dithiocarbamate and triphenylphosphine ligands (2017) *Phosphorus, Sulfur and Silicon and the Related Elements*, 192 (3), pp. 330-337. [10.1080/10426507.2016.1238471](https://doi.org/10.1080/10426507.2016.1238471)
37. Blagojević, J.P., Veljković, D., Zarić, S.D. Stacking interactions between hydrogen-bridged and aromatic rings: study of crystal structures and quantum chemical calculations (2017) *CrystEngComm*, 19 (1), pp. 40-46. [10.1039/c6ce02045c](https://doi.org/10.1039/c6ce02045c)
38. Sathiyaraj, E., Selvaganapathi, P., Thirumaran, S., Ciattini, S. Synthesis, spectral, structural and computational studies on NiS₄ and NiS₂NP chromophores: Anagostic and C-H $\cdots\pi$ (chelate) interactions in [Ni(dtc)(PPh₃)(NCS)] (dtc = N-(2-phenylethyl)-N-(4-methoxybenzyl)- dithiocarbamate and N-(2-phenylethyl)-N-(4-chlorobenzyl)dithiocarbamate) (2016) *Journal of Molecular Structure*, 1119, pp. 385-395. [10.1016/j.molstruc.2016.04.079](https://doi.org/10.1016/j.molstruc.2016.04.079)
39. McKay, A.P., Lo, W.K.C., Preston, D., Giles, G.I., Crowley, J.D., Barnsley, J.E., Gordon, K.C., McMorran, D.A. Palladium(II) and platinum(II) complexes of ((2-pyridyl)pyrazol-1-ylmethyl)benzoic acids: Synthesis, Solid state characterisation and biological cytotoxicity (2016) *Inorganica Chimica Acta*, 446, pp. 41-53. [10.1016/j.ica.2016.02.038](https://doi.org/10.1016/j.ica.2016.02.038)
40. Blagojević, J.P., Janjić, G.V., Zarić, S.D. Very strong parallel interactions between two saturated acyclic groups closed with intramolecular hydrogen bonds forming hydrogen-bridged rings (2016) *Crystals*, 6 (4), art. no. 34. [10.3390/cryst6040034](https://doi.org/10.3390/cryst6040034)
41. Bhattacharya, S., Roy, S., Harms, K., Bauza, A., Frontera, A., Chattopadhyay, S. Importance of chelate-chelate stacking interactions in crystal structures of square pyramidal copper(II) complexes with two distinct chelating bidentate ligands (2016) *Inorganica Chimica Acta*, 442, pp. 16-23. [10.1016/j.ica.2015.11.002](https://doi.org/10.1016/j.ica.2015.11.002)
42. Malenov, D.P., Zarić, S.D. Parallel interactions of aromatic and heteroaromatic molecules [Paralelne interakcije aromatičnih i heteroaromatičnih molekula] (2016) *Hemijska Industrija*, 70 (6), pp. 649-659. [10.2298/HEMIND151009003M](https://doi.org/10.2298/HEMIND151009003M)
43. Mahapatra, T.S., Bauzá, A., Dutta, D., Mishra, S., Frontera, A., Ray, D. Carboxylate Coordination Assisted Aggregation for Quasi-Tetrahedral and Partial-Dicubane [Cu₄] Coordination Clusters (2016) *ChemistrySelect*, 1 (1), pp. 64-75. [10.1002/slct.201600006](https://doi.org/10.1002/slct.201600006)
44. Ninković, D.B., Vojislavljević-Vasilev, D.Z., Medaković, V.B., Hall, M.B., Brothers, E.N., Zarić, S.D. Aliphatic-aromatic stacking interactions in cyclohexane-benzene are stronger than aromatic-aromatic interaction in the benzene dimer (2016) *Physical Chemistry Chemical Physics*, 18 (37), pp. 25791-25795. [10.1039/c6cp03734h](https://doi.org/10.1039/c6cp03734h)
45. Khavasi, H.R., Kavand, S. π -Stacking synthon repetitivity in coordination compounds (2016) *CrystEngComm*, 18 (25), pp. 4760-4764. [10.1039/c6ce00838k](https://doi.org/10.1039/c6ce00838k)

46. Zukerman-Schpector, J., Yeo, C.I., Tiekink, E.R.T. Supramolecular architectures sustained by arene-C-H $\cdots\pi$ (quasi-chelate ring) interactions in the crystal structures of copper(I) complexes (2016) *Zeitschrift für Kristallographie - Crystalline Materials*, 231 (1), pp. 55-64. [10.1515/zkri-2015-1868](#)
47. Blagojević, J.P., Zarić, S.D. Stacking interactions of hydrogen-bridged rings-stronger than the stacking of benzene molecules (2015) *Chemical Communications*, 51 (65), pp. 12989-12991. [10.1039/c5cc04139b](#)
48. Safin, D.A., Babashkina, M.G., Bolte, M., Mitoraj, M.P., Klein, A. Metal ion influences distortion of the ligand in the structure of $[M\{2\text{-MeO}(\text{O})\text{CC}_6\text{H}_4\text{NHC}(\text{S})\text{NP}(\text{S})(\text{OiPr})_2\}_2]$ (M = ZnII, CdII) complexes: A driving force for intermolecular aggregation (2015) *Dalton Transactions*, 44 (31), pp. 14101-14109. [10.1039/c5dt02189h](#)
49. Kumar, V., Singh, V., Gupta, A.N., Singh, S.K., Drew, M.G.B., Singh, N. Cooperative influence of ligand frameworks in sustaining supramolecular architectures of Ni(II)/Pd(II) heteroleptic dithio-dipyrin complexes via non-covalent interactions (2015) *Polyhedron*, 89, pp. 304-312. [10.1016/j.poly.2015.01.020](#)
50. Khavasi, H.R., Mir Mohammad Sadegh, B. Influence of N-heteroaromatic π - π Stacking on supramolecular assembly and coordination geometry; Effect of a single-atom change in the ligand (2015) *Dalton Transactions*, 44 (12), pp. 5488-5502. [10.1039/c4dt03518f](#)
51. Malenov, D.P., Ninkovic, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](#)
52. Holló, B., Magyari, J., Živković-Radovanović, V., Vučković, G., Tomić, Z.D., Szilágyi, I.M., Pokol, G., Meszaros Szecsenyi, K. Synthesis, characterisation and antimicrobial activity of bis(phthalazine-1-hydrazone)-2,6-diacetylpyridine and its complexes with Co III, NiII, CuII and ZnII (2014) *Polyhedron*, 80, pp. 142-150. [10.1016/j.poly.2014.03.007](#)
53. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](#)
54. Yeo, C.I., Halim, S.N.A., Ng, S.W., Tan, S.L., Zukerman-Schpector, J., Ferreira, M.A.B., Tiekink, E.R.T. Investigation of putative arene-C-H $\cdots\pi$ (quasi-chelate ring) interactions in copper(I) crystal structures (2014) *Chemical Communications*, 50 (45), pp. 5984-5986. [10.1039/c4cc02040e](#)
55. Basu Baul, T.S., Kundu, S., Höpfl, H., Tiekink, E.R.T., Linden, A. Synthesis, structures, and spectroscopic properties of Hg(II) complexes of bidentate NN and tridentate NNO Schiff-base ligands (2014) *Journal of Coordination Chemistry*, 67 (6), pp. 1061-1078. [10.1080/00958972.2014.901508](#)
56. Basu Baul, T.S., Kundu, S., Ng, S.W., Guchhait, N., Tiekink, E.R.T. Synthesis, characterization, photoluminescent properties and supramolecular aggregations in diimine chelated cadmium dihalides (2014) *Journal of Coordination Chemistry*, 67 (1), pp. 96-119. [10.1080/00958972.2013.864393](#)
57. Malenov, D.P., Zarić, S.D. Novel parallel stacking interactions of aromatic molecules (2014) *Quantum Nanosystems: Structure, Properties, and Interactions*, pp. 353-381. [10.1201/b17412](#)
58. Maiti, M., Sadhukhan, D., Thakurta, S., Zangrando, E., Pilet, G., Signorella, S., Bellú, S., Mitra, S. Catalytic efficacy of copper(II) and cobalt(III) Schiff base complexes in alkene epoxidation (2014) *Bulletin of the Chemical Society of Japan*, 87 (6), pp. 724-732. [10.1246/bcsj.20130334](#)
59. Leovac, V.M., Vojinović-Ješić, L.S., Ivković, S.A., Rodić, M.V., Jovanović, L.S., Holló, B., Szécsényi, K.M. Transition metal complexes with thiosemicarbazide-based ligands. Part 60. Reactions of copper(II) bromide with pyridoxal S-methylisothiosemicarbazone (PLITSC). Crystal structure of $[\text{Cu}(\text{PLITSC-H})\text{H}_2\text{O}]\text{Br}\cdot\text{H}_2\text{O}$ (2014) *Journal of the Serbian Chemical Society*, 79 (3), pp. 291-302. [10.2298/JSC130622084L](#)
60. Siddiqui, K.A., Tiekink, E.R.T. A supramolecular synthon approach to aid the discovery of architectures sustained by C-H \cdots M hydrogen bonds (2013) *Chemical Communications*, 49 (76), pp. 8501-8503. [10.1039/c3cc44808h](#)

61. Janjić, G.V., Ninković, D.B., Zarić, S.D. Influence of supramolecular structures in crystals on parallel stacking interactions between pyridine molecules (2013) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 69 (4), pp. 389-394. [10.1107/S2052519213013961](https://doi.org/10.1107/S2052519213013961)
62. Caracelli, I., Zukerman-Schpector, J., Tiekink, E.R.T. Supra-molecular synthons based on gold $\cdots \pi$ (arene) interactions (2013) *Gold Bulletin*, 46 (2), pp. 81-89. [10.1007/s13404-013-0088-7](https://doi.org/10.1007/s13404-013-0088-7)
63. Basu Baul, T.S., Kundu, S., Höpfl, H., Tiekink, E.R.T., Linden, A. Synthesis, crystal structures and optical properties of mercury(II) halide compounds with (E)-N-(pyridin-2-ylmethylidene)arylamines: Effect of ligand R-group upon structure (2013) *Polyhedron*, 55, pp. 270-282. [10.1016/j.poly.2013.03.025](https://doi.org/10.1016/j.poly.2013.03.025)
64. Basu Baul, T.S., Kundu, S., Mitra, S., Höpfl, H., Tiekink, E.R.T., Linden, A. The influence of counter ion and ligand methyl substitution on the solid-state structures and photophysical properties of mercury(ii) complexes with (E)-N-(pyridin-2-ylmethylidene)arylamines (2013) *Dalton Transactions*, 42 (5), pp. 1905-1920. [10.1039/c2dt32283h](https://doi.org/10.1039/c2dt32283h)
65. Hosseini-Monfared, H., Pousaneh, E., Sadighian, S., Ng, S.W., Tiekink, E.R.T. Syntheses, structures, and catalytic activity of copper(II)-aroylhydrazone complexes (2013) *Zeitschrift für Anorganische und Allgemeine Chemie*, 639 (2), pp. 435-442. [10.1002/zaac.201200395](https://doi.org/10.1002/zaac.201200395)
66. Ninković, D.B., Andrić, J.M., Zarić, S.D. Parallel interactions at large horizontal displacement in pyridine-pyridine and benzene-pyridine dimers (2013) *ChemPhysChem*, 14 (1), pp. 237-243. [10.1002/cphc.201200607](https://doi.org/10.1002/cphc.201200607)
67. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/ π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](https://doi.org/10.1016/j.jinorgbio.2012.09.002)
68. Banerjee, I., Dolai, M., Jana, A.D., Das, K.K., Ali, M. σ -Aromaticity in dinuclear copper(ii) complexes: Novel interaction between perchlorate anion and σ -aromatic [C₂X₂] (X = N or O) core (2012) *CrystEngComm*, 14 (15), pp. 4972-4975. [10.1039/c2ce25265a](https://doi.org/10.1039/c2ce25265a)
69. Konidaris, K.F., Tsipis, A.C., Kostakis, G.E. Shedding light on intermolecular metal-organic ring interactions by theoretical studies (2012) *ChemPlusChem*, 77 (5), pp. 354-360. [10.1002/cplu.201200018](https://doi.org/10.1002/cplu.201200018)
70. Zukerman-Schpector, J., Tiekink, E.R.T. Intermolecular C-H... π (Chelate) Interactions - Prevalence in the Crystal Structures of Metal 1,1-Dithiolates (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 275-299. [10.1002/9781119945888.ch11](https://doi.org/10.1002/9781119945888.ch11)
71. Janjić, G.V., Zarić, S.D. Noncovalent Interactions of π -Systems in Crystal Structures of Transition-Metal Complexes (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 243-274. [10.1002/9781119945888.ch10](https://doi.org/10.1002/9781119945888.ch10)
72. Nishio, M., Umezawa, Y., Suezawa, H., Tsuboyama, S. The CH/ π Hydrogen Bond: Implication in Crystal Engineering (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 1-39. [10.1002/9781119945888.ch1](https://doi.org/10.1002/9781119945888.ch1)
73. Chakrabarty, P.P., Biswas, D., García-Granda, S., Jana, A.D., Saha, S. Sodium ion assisted molecular self-assembly in a class of Schiff-base copper(II) complexes (2012) *Polyhedron*, 35 (1), pp. 108-115. [10.1016/j.poly.2012.01.004](https://doi.org/10.1016/j.poly.2012.01.004)
74. Ninković, D.B., Janjić, G.V., Zarić, S.D. Crystallographic and ab initio study of pyridine stacking interactions. Local nature of hydrogen bond effect in stacking interactions (2012) *Crystal Growth and Design*, 12 (3), pp. 1060-1063. [10.1021/cg201389y](https://doi.org/10.1021/cg201389y)
75. Konidaris, K.F., Morrison, C.N., Servetas, J.G., Haukka, M., Lan, Y., Powell, A.K., Plakatouras, J.C., Kostakis, G.E. Supramolecular assemblies involving metal-organic ring interactions: Heterometallic Cu(II)-Ln(III) two-dimensional coordination polymers (2012) *CrystEngComm*, 14 (5), pp. 1842-1849. [10.1039/c2ce06180e](https://doi.org/10.1039/c2ce06180e)
76. Karabyk, H., Karabyk, H., Ocak Skeleli, N. Hydrogen-bridged chelate ring-assisted π -stacking interactions (2012) *Acta Crystallographica Section B: Structural Science*, 68 (1), pp. 71-79. [10.1107/S0108768111052608](https://doi.org/10.1107/S0108768111052608)

77. Zukerman-Schpector, J., Haiduc, I., Tiekink, E.R.T. Supramolecular Self-assembly of Transition Metal Carbonyl Molecules Through M-CO(Lone Pair)... π (Arene) Interactions (2012) *Advances in Organometallic Chemistry*, 60, pp. 49-92. [10.1016/B978-0-12-396970-5.00002-5](#)
 78. Konidaris, K.F., Powell, A.K., Kostakis, G.E. Peculiar structural findings in coordination chemistry of malonamide-N,N'-diacetic acid (2011) *CrystEngComm*, 13 (19), pp. 5872-5876. [10.1039/c1ce05576c](#)
 79. Janjić, G.V., Petrović, P.V., Ninković, D.B., Zarić, S.D. Geometries of stacking interactions between phenanthroline ligands in crystal structures of square-planar metal complexes (2011) *Journal of Molecular Modeling*, 17 (8), pp. 2083-2092. [10.1007/s00894-010-0905-3](#)
 80. Tiekink, E.R.T., Zukerman-Schpector, J. Emerging supramolecular synthons: C-H... π (chelate) interactions in metal bis(1,1-dithiolates) (2011) *Chemical Communications*, 47 (23), pp. 6623-6625. [10.1039/c1cc11173f](#)
 81. Janjić, G., Petrović, P., Ninković, D., Veljković, D., Kapor, A., Zarić, S.D. Stacking interactions between pyridine fragments in crystal structures of terpyridyl complexes (2010) *Studia Universitatis Babes-Bolyai Chemia*, (3), pp. 165-176.
 82. Zhang, K.-K., Fang, X., Yu, H.-Y., Ke, H., Wang, J.-D. Catena-Poly[lead(II)-bis(μ -2-amino-1,3-benzothiazole-6-carboxylato)] (2010) *Acta Crystallographica Section E: Structure Reports Online*, 66 (12), pp. m1700-m1701. [10.1107/S1600536810049330](#)
 83. Tiekink, E.R.T. Molecular crystals by design? (2001) *Chemical Communications*, 50 (76), pp. 11079-11082. [10.1039/c4cc04972a](#)
17. P. H. Woebkenberg, J. G. Labram, J.-M. Swiecicki, K. Parkhomenko, **D. Sredojević**, J.-P. Gisselbrecht, D. M. de Leeuw, Bradley, D. S. Donal, J.-P. Djukic, T. D. Anthopoulos, **Ambipolar organic transistors and near-infrared phototransistors based on a solution-processable squarilium dye**, *Journal of Materials Chemistry* 2010, 20(18), pp. 3673-3680.

Цитиран у:

1. He, J., Xiao, Q., Shao, M., Li, Z. Advances in Polymethine Dyes for Near-Infrared Organic Photodiodes† (2023) *Chinese Journal of Chemistry*, 41 (11), pp. 1399-1416. [10.1002/cjoc.202200688](#)
2. Schulz, F., Takamaru, S., Bens, T., Hanna, J.-I., Sarkar, B., Laschat, S., Iino, H. Liquid crystalline self-assembly of azulene-thiophene hybrids and their applications as OFET materials (2022) *Physical Chemistry Chemical Physics*, 24 (38), pp. 23481-23489. [10.1039/d2cp03527h](#)
3. Ran, H., Li, F., Zheng, R., Zhang, H., Xie, F., Jin, P., Lei, Z., Wang, X.-T., Hu, J.-Y. Polarity change of OFETs based on Dithienocoronene Diimide (DTCDI)-Derived isomeric triads end-capped with Azulene (2022) *Dyes and Pigments*, 203, art. no. 110311. [10.1016/j.dyepig.2022.110311](#)
4. Ge, B., Nie, C., Shen, J. A hybrid photodetector of graphene/TiO₂/inorganic PbS quantum dots for fast response (2022) *Japanese Journal of Applied Physics*, 61 (4), art. no. 040903. [10.35848/1347-4065/ac56fc](#)
5. Higashino, T., Mori, T. Small molecule ambipolar transistors (2022) *Physical Chemistry Chemical Physics*, 24 (17), pp. 9770-9806. [10.1039/d1cp05799e](#)
6. Kim, T., Lee, W., Lee, C., Kim, H., Kim, Y. Near infrared organic phototransistors with blend gate sensing layers consisting of conjugated and insulating polymers (2022) *IEEE Journal of Selected Topics in Quantum Electronics*, 28 (2). [10.1109/JSTQE.2021.3105095](#)
7. Pandey, M., Singh, V., Kumar, C., Pandey, S.S., Nakamura, M. Recent progress in the macroscopic orientation of semiconducting polymers by floating film transfer method (2022) *Japanese Journal of Applied Physics*, 61 (SB), art. no. SB0801. [10.35848/1347-4065/ac2f20](#)
8. Kubota, Y., Nakazawa, M., Lee, J., Naoi, R., Tachikawa, M., Inuzuka, T., Funabiki, K., Matsui, M., Kim, T. Synthesis of near-infrared absorbing and fluorescent bis(pyrrol-2-yl)squaraines and their halochromic properties (2021) *Organic Chemistry Frontiers*, 8 (22), pp. 6226-6243. [10.1039/d1qo01169c](#)

9. Shou, M., Zhang, Q., Li, H., Xiong, S., Hu, B., Zhou, J., Zheng, N., Xie, Z., Ying, L., Liu, L. Ultrahigh Detectivity in Spatially Separated Hole/Electron Dual Traps Based Near-Infrared Organic Phototransistor (2021) *Advanced Optical Materials*, 9 (7), art. no. 2002031. [10.1002/adom.202002031](https://doi.org/10.1002/adom.202002031)
10. Yadav, N., Kumari, N., Ando, Y., Pandey, S.S., Singh, V. PCPDTBT copolymer based high performance organic phototransistors utilizing improved chain alignment (2021) *Optical Materials*, 113, art. no. 110886. [10.1016/j.optmat.2021.110886](https://doi.org/10.1016/j.optmat.2021.110886)
11. Pluczyk-Malek, S., Honisz, D., Akkuratov, A., Troshin, P., Lapkowski, M. Tuning the electrochemical and optical properties of donor-acceptor D-A2-A1-A2-D derivatives with central benzothiadiazole core by changing the A2 strength (2021) *Electrochimica Acta*, 368, art. no. 137540. [10.1016/j.electacta.2020.137540](https://doi.org/10.1016/j.electacta.2020.137540)
12. Yadav, N., Kumari, N., Pandey, S., Singh, V. Development of PCPDTBT thin film based highly sensitive organic phototransistors (2021) *Materials Today: Proceedings*, 46, pp. 8429-8432. [10.1016/j.matpr.2021.03.468](https://doi.org/10.1016/j.matpr.2021.03.468)
13. Park, J., Lee, C., Kim, T., Kim, H., Kim, Y. Near-Infrared Organic Phototransistors with p-Channel Photosensitive Layers of Conjugated Polymer Composed of bis-Octyldodecyl-Diketopyrrolopyrrole and Benzothiadiazole Units (2021) *Advanced Electronic Materials*, 7 (1), art. no. 2000932. [10.1002/aelm.202000932](https://doi.org/10.1002/aelm.202000932)
14. Hou, B., Li, J., Xin, H., Yang, X., Gao, H., Peng, P., Gao, X. Design, Synthesis and Field Effect Characteristics of Diazulene Diimides Bridged by Aromatic Group (2020) *Acta Chimica Sinica*, 78 (8), pp. 788-796. [10.6023/A20050161](https://doi.org/10.6023/A20050161)
15. Ran, H., Duan, X., Zheng, R., Xie, F., Chen, L., Zhao, Z., Han, R., Lei, Z., Hu, J.-Y. Two Isomeric Azulene-Decorated Naphthodithiophene Diimide-based Triads: Molecular Orbital Distribution Controls Polarity Change of OFETs through Connection Position (2020) *ACS Applied Materials and Interfaces*, 12 (20), pp. 23225-23235. [10.1021/acsami.0c04552](https://doi.org/10.1021/acsami.0c04552)
16. Gong, J., Peshkov, A.A., Yu, J., Amandykova, S., Gimnkhani, A., Huang, J., Kashtanov, S., Pereshivko, O.P., Peshkov, V.A. Three-component reaction of azulene, aryl glyoxal and 1,3-dicarbonyl compound for the synthesis of various azulene derivatives (2020) *RSC Advances*, 10 (17), pp. 10113-10117. [10.1039/d0ra00356e](https://doi.org/10.1039/d0ra00356e)
17. Wang, Y., Li, Y., Yan, Q., Liu, X., Xia, G., Shao, Q., Liang, K., Hong, L., Chi, B., Wang, H. Benzocaine-incorporated smart 1,3-squaraine dyes: Red emission, excellent stability and cell bioimaging (2020) *Dyes and Pigments*, 173, art. no. 107977. [10.1016/j.dyepig.2019.107977](https://doi.org/10.1016/j.dyepig.2019.107977)
18. Wakahara, T., Nagaoka, K., Nakagawa, A., Hirata, C., Matsushita, Y., Miyazawa, K., Ito, O., Wada, Y., Takagi, M., Ishimoto, T., Tachikawa, M., Tsukagoshi, K. One-Dimensional Fullerene/Porphyrin Cocrystals: Near-Infrared Light Sensing through Component Interactions (2020) *ACS Applied Materials and Interfaces*, 12 (2), pp. 2878-2883. [10.1021/acsami.9b18784](https://doi.org/10.1021/acsami.9b18784)
19. Katagiri, H. Azulene-Based Materials for Organic Field-Effect Transistors (2020) *Advances in Organic Crystal Chemistry: Comprehensive Reviews 2020*, pp. 341-358. [10.1007/978-981-15-5085-0_17](https://doi.org/10.1007/978-981-15-5085-0_17)
20. Park, J., Kim, H., Kim, T., Lee, C., Song, D.-I., Kim, Y. Effect of top channel thickness in near infrared organic phototransistors with conjugated polymer gate-sensing layers (2019) *Electronics (Switzerland)*, 8 (12), art. no. 1493, [10.3390/electronics8121493](https://doi.org/10.3390/electronics8121493)
21. Li, Q., Guo, Y., Liu, Y. Exploration of Near-Infrared Organic Photodetectors (2019) *Chemistry of Materials*, 31 (17), pp. 6359-6379. [10.1021/acs.chemmater.9b00966](https://doi.org/10.1021/acs.chemmater.9b00966)
22. Govor, L.V., Parisi, J. Increase of saturation current in unipolar field-effect transistor due to bulk electric conductance of organic semiconductor (2019) *AIP Advances*, 9 (2), art. no. 025313. [10.1063/1.5088117](https://doi.org/10.1063/1.5088117)
23. Webster, S.J., López-Alled, C.M., Liang, X., McMullin, C.L., Kociok-Köhn, G., Lyall, C.L., James, T.D., Wenk, J., Cameron, P.J., Lewis, S.E. Azulenenes with aryl substituents bearing pentafluorosulfanyl groups: synthesis, spectroscopic and halochromic properties (2019) *New Journal of Chemistry*, 43 (2), pp. 992-1000. [10.1039/C8NJ05520C](https://doi.org/10.1039/C8NJ05520C)

24. Wang, G., Huang, K., Liu, Z., Du, Y., Wang, X., Lu, H., Zhang, G., Qiu, L. Flexible, Low-Voltage, and n-Type Infrared Organic Phototransistors with Enhanced Photosensitivity via Interface Trapping Effect (2018) *ACS Applied Materials and Interfaces*, 10 (42), pp. 36177-36186. [10.1021/acsami.8b12009](https://doi.org/10.1021/acsami.8b12009)
25. Rao, G.H., Pandey, M., Narayanaswamy, K., Srinivasa Rao, R., Pandey, S.S., Hayase, S., Singh, S.P. Synthesis and Optoelectrical Characterization of Novel Squaraine Dyes Derived from Benzothiophene and Benzofuran (2018) *ACS Omega*, 3 (10), pp. 13919-13927. [10.1021/acsomega.8b01240](https://doi.org/10.1021/acsomega.8b01240)
26. Minkovska, S., Burdzhiev, N., Alexiev, A., Deligeorgiev, T. A novel fast green method for the preparation of the squaraine dye 3-oxo-4[(1,3,3-trimethyl-3H-indol-1-ium-2-yl)methylene]-2-[(1,3,3-trimethylindolin-2-ylidene)methyl]cyclobut-1-enolate, inner salt (2018) *Chemical Papers*, 72 (6), pp. 1549-1552. [10.1007/s11696-018-0398-6](https://doi.org/10.1007/s11696-018-0398-6)
27. Huang, W., Lin, Y.-H., Anthopoulos, T.D. High Speed Ultraviolet Phototransistors Based on an Ambipolar Fullerene Derivative (2018) *ACS Applied Materials and Interfaces*, 10 (12), pp. 10202-10210. [10.1021/acsami.8b00121](https://doi.org/10.1021/acsami.8b00121)
28. Kayes, M.N., Shahabuddin, M., Miah, M.J., Karikomi, M., Yoshihara, S., Nasuno, E., Kato, N., Iimura, K.-I. Thin films of an axially chiral bibenzo[c]phenanthrene diol and its enantiomers: Film structure, optical property, and photoelectrochemical response (2018) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 538, pp. 155-163. [10.1016/j.colsurfa.2017.11.001](https://doi.org/10.1016/j.colsurfa.2017.11.001)
29. Ma, L., Chen, B., Guo, Y., Liang, Y., Zeng, D., Zhan, X., Liu, Y., Chen, X. NIR polymers and phototransistors (2018) *Journal of Materials Chemistry C*, 6 (47), pp. 13049-13058. [10.1039/C8TC03917H](https://doi.org/10.1039/C8TC03917H)
30. Xin, H., Li, J., Ge, C., Yang, X., Xue, T., Gao, X. 6,6'-Diaryl-substituted biazulene diimides for solution-processable high-performance n-type organic semiconductors† (2018) *Materials Chemistry Frontiers*, 2 (5), pp. 975-985. [10.1039/c8qm00047f](https://doi.org/10.1039/c8qm00047f)
31. Yamaguchi, Y., Katagiri, H. Azulene-based semiconductor materials (2018) *Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry*, 76 (8), pp. 820-827. [10.5059/yukigoseikyokaishi.76.820](https://doi.org/10.5059/yukigoseikyokaishi.76.820)
32. Kim, H., Kim, G., Song, I., Lee, J., Abdullah, H., Yang, C., Oh, J.H. Ambipolar organic phototransistors based on 6,6'-dibromoindigo (2018) *RSC Advances*, 8 (27), pp. 14747-14752. [10.1039/c8ra02346h](https://doi.org/10.1039/c8ra02346h)
33. Kubota, Y., Tsukamoto, M., Ohnishi, K., Jin, J., Funabiki, K., Matsui, M. Synthesis and fluorescence properties of novel squarylium-boron complexes (2017) *Organic Chemistry Frontiers*, 4 (8), pp. 1522-1527. [10.1039/c7qo00225d](https://doi.org/10.1039/c7qo00225d)
34. Xin, H., Gao, X. Application of Azulene in Constructing Organic Optoelectronic Materials: New Tricks for an Old Dog (2017) *ChemPlusChem*, 82 (7), pp. 945-956. [10.1002/cplu.201700039](https://doi.org/10.1002/cplu.201700039)
35. Pradhan, A., Roy, A., Tripathi, S., Som, A., Sarkar, D., Mishra, J.K., Roy, K., Pradeep, T., Ravishankar, N., Ghosh, A. Ultra-high sensitivity infra-red detection and temperature effects in a graphene-tellurium nanowire binary hybrid (2017) *Nanoscale*, 9 (27), pp. 9284-9290. [10.1039/c7nr01860f](https://doi.org/10.1039/c7nr01860f)
36. Han, H., Lee, C., Kim, H., Seo, J., Song, M., Nam, S., Kim, Y. Strong composition effects in all-polymer phototransistors with bulk heterojunction layers of p-type and n-type conjugated polymers (2017) *ACS Applied Materials and Interfaces*, 9 (1), pp. 628-635. [10.1021/acsami.6b11193](https://doi.org/10.1021/acsami.6b11193)
37. He, Y., Quinn, J.T.E., Hou, D., Ngai, J.H.L., Li, Y. A small bandgap (3E,7 E)-3,7-bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b']difuran-2,6(3 H,7 H)-dione (IBDF) based polymer semiconductor for near-infrared organic phototransistors (2017) *Journal of Materials Chemistry C*, 5 (46), pp. 12163-12171. [10.1039/c7tc03584e](https://doi.org/10.1039/c7tc03584e)
38. Lynch, D.E., Hamilton, D.G. The History of Azulenyl Squaraines (2017) *Australian Journal of Chemistry*, 70 (8), pp. 857-871. [10.1071/CH16383](https://doi.org/10.1071/CH16383)
39. Yamaguchi, Y., Takubo, M., Ogawa, K., Nakayama, K.-I., Koganezawa, T., Katagiri, H. Terazulene Isomers: Polarity Change of OFETs through Molecular Orbital Distribution Contrast (2016) *Journal of the American Chemical Society*, 138 (35), pp. 11335-11343. [10.1021/jacs.6b06877](https://doi.org/10.1021/jacs.6b06877)

40. Yu, H., Dong, Z., Guo, J., Kim, D., So, F. Vertical Organic Field-Effect Transistors for Integrated Optoelectronic Applications (2016) ACS Applied Materials and Interfaces, 8 (16), pp. 10430-10435. [10.1021/acsami.6b00182](https://doi.org/10.1021/acsami.6b00182)
41. Zhu, M., Lv, S., Wang, Q., Zhang, G., Lu, H., Qiu, L. Enhanced near-infrared photoresponse of organic phototransistors based on single-component donor-acceptor conjugated polymer nanowires (2016) Nanoscale, 8 (14), pp. 7738-7748. [10.1039/c5nr09003b](https://doi.org/10.1039/c5nr09003b)
42. Dong, J.-X., Zhang, H.-L. Azulene-based organic functional molecules for optoelectronics (2016) Chinese Chemical Letters, 27 (8), pp. 1097-1104. [10.1016/j.cclet.2016.05.005](https://doi.org/10.1016/j.cclet.2016.05.005)
43. Punzi, A., Capozzi, M.A.M., Fino, V., Carlucci, C., Suriano, M., Mesto, E., Schingaro, E., Orgiu, E., Bonacchi, S., Leydecker, T., Samorì, P., Musio, R., Farinola, G.M. Croconaines as molecular materials for organic electronics: Synthesis, solid state structure and use in transistor devices (2016) Journal of Materials Chemistry C, 4 (15), pp. 3138-3142. [10.1039/c6tc00264a](https://doi.org/10.1039/c6tc00264a)
44. Pace, G., Grimoldi, A., Sampietro, M., Natali, D., Caironi, M. Printed photodetectors (2015) Semiconductor Science and Technology, 30 (10), art. no. 104006. [10.1088/0268-1242/30/10/104006](https://doi.org/10.1088/0268-1242/30/10/104006)
45. Li, X., Wu, J., Mao, N., Zhang, J., Lei, Z., Liu, Z., Xu, H. A self-powered graphene-MoS₂ hybrid phototransistor with fast response rate and high on-off ratio (2015) Carbon, 92, pp. 126-132. [10.1016/j.carbon.2015.03.064](https://doi.org/10.1016/j.carbon.2015.03.064)
46. Bellani, S., Iacchetti, A., Porro, M., Beverina, L., Antognazza, M.R., Natali, D. Charge transport characterization in a squaraine-based photodetector by means of admittance spectroscopy (2015) Organic Electronics, 22, pp. 56-61. [10.1016/j.orgel.2015.03.031](https://doi.org/10.1016/j.orgel.2015.03.031)
47. Hu, J.-Y., Nakano, M., Osaka, I., Takimiya, K. Naphthodithiophenediimide (NDTI)-based triads for high-performance air-stable, solution-processed ambipolar organic field-effect transistors (2015) Journal of Materials Chemistry C, 3 (17), pp. 4244-4249. [10.1039/c5tc00486a](https://doi.org/10.1039/c5tc00486a)
48. Xu, H., Wu, J., Feng, Q., Mao, N., Wang, C., Zhang, J. High responsivity and gate tunable graphene-MoS₂ hybrid phototransistor (2014) Small, 10 (11), pp. 2300-2306. [10.1002/sml.201303670](https://doi.org/10.1002/sml.201303670)
49. Zaumseil, J. Recent Trends in Light-Emitting Organic Field-Effect Transistors (2013) Organic Electronics: Emerging Concepts and Technologies, pp. 187-213. [10.1002/9783527650965.ch08](https://doi.org/10.1002/9783527650965.ch08)
50. Yang, Y., Da Costa, R.C., Fuchter, M.J., Campbell, A.J. Circularly polarized light detection by a chiral organic semiconductor transistor (2013) Nature Photonics, 7 (8), pp. 634-638. [10.1038/nphoton.2013.176](https://doi.org/10.1038/nphoton.2013.176)
51. Pfattner, R., Pavlica, E., Jaggi, M., Liu, S.-X., Decurtins, S., Bratina, G., Veciana, J., Mas-Torrent, M., Rovira, C. Photo-induced intramolecular charge transfer in an ambipolar field-effect transistor based on a π -conjugated donor-acceptor dyad (2013) Journal of Materials Chemistry C, 1 (25), pp. 3985-3988. [10.1039/c3tc30442f](https://doi.org/10.1039/c3tc30442f)
52. Hu, L., Yan, Z., Xu, H. Advances in synthesis and application of near-infrared absorbing squaraine dyes (2013) RSC Advances, 3 (21), pp. 7667-7676. [10.1039/c3ra23048a](https://doi.org/10.1039/c3ra23048a)
53. Sun, Z., Liu, Z., Li, J., Tai, G.-A., Lau, S.-P., Yan, F. Infrared photodetectors based on CVD-grown graphene and PbS quantum dots with ultrahigh responsivity (2012) Advanced Materials, 24 (43), pp. 5878-5883. [10.1002/adma.201202220](https://doi.org/10.1002/adma.201202220)
54. Sun, Z., Li, J., Yan, F. Highly sensitive organic near-infrared phototransistors based on poly(3-hexylthiophene) and PbS quantum dots (2012) Journal of Materials Chemistry, 22 (40), pp. 21673-21678. [10.1039/c2jm34773c](https://doi.org/10.1039/c2jm34773c)
55. Irimia-Vladu, M., Găowacki, E.D., Troshin, P.A., Schwabegger, G., Leonat, L., Susarova, D.K., Krystal, O., Ullah, M., Kanbur, Y., Bodea, M.A., Razumov, V.F., Sitter, H., Bauer, S., Sariciftci, N.S. Indigo - A natural pigment for high performance ambipolar organic field effect transistors and circuits (2012) Advanced Materials, 24 (3), pp. 375-380. [10.1002/adma.201102619](https://doi.org/10.1002/adma.201102619)
56. Gowacki, E.D., Leonat, L., Voss, G., Bodea, M.-A., Bozkurt, Z., Ramil, A.M., Irimia-Vladu, M., Bauer, S., Sariciftci, N.S. Ambipolar organic field effect transistors and inverters with the natural material Tyrian Purple (2011) AIP Advances, 1 (4), art. no. 042132. [10.1063/1.3660358](https://doi.org/10.1063/1.3660358)

57. Cavallini, M., D'Angelo, P., Criado, V.V., Gentili, D., Shehu, A., Leonardi, F., Milita, S., Liscio, F., Biscarini, F. Ambipolar multi-stripe organic field-effect transistors (2011) *Advanced Materials*, 23 (43), pp. 5091-5097. [10.1002/adma.201103439](https://doi.org/10.1002/adma.201103439)
 58. Sun, Q., Dong, G., Zhao, H., Qiao, J., Liu, X., Duan, L., Wang, L., Qiu, Y. Modulated intermolecular electrostatic interaction and morphology transition in squarylium dyes based organic field-effect transistors (2011) *Organic Electronics*, 12 (10), pp. 1674-1682. [10.1016/j.orgel.2011.06.016](https://doi.org/10.1016/j.orgel.2011.06.016)
 59. Labram, J.G., Domingo, E.B., Stingelin, N., Bradley, D.D.C., Anthopoulos, T.D. In-situ monitoring of the solid-state microstructure evolution of polymer:fullerene blend films using field-effect transistors (2011) *Advanced Functional Materials*, 21 (2), pp. 356-363. [10.1002/adfm.201001446](https://doi.org/10.1002/adfm.201001446)
 60. Ooi, Z.-E., Singh, S.P., Ng, S.L.G., Goh, G.K.L., Dodabalapur, A. Analysis and modelling of lateral heterostructure field-effect bipolar transistors (2011) *Organic Electronics*, 12 (11), pp. 1794-1799. [10.1016/j.orgel.2011.06.026](https://doi.org/10.1016/j.orgel.2011.06.026)
18. J.-P. Djukić, C. Boulho, **D. Sredojević**, C. Scheeren, S. Zarić, L. Ricard and M. Pfeffer, **The Stereospecific Ligand Exchange at a pseudo-Benzylic T-4 Iridium Centre in Planar-Chiral Cycloiridated (hapto6-Arene)tricarbonylchromium complexes**, *Chemistry - A European Journal*, 2009, 15(41), pp. 10830-10842.

Цитиран у:

1. Antuña-Hörlein, C., Wu, F., Deraedt, C., Bouillet, C., Djukic, J.-P. Cobalt Nanoparticles Formed upon Reaction of Cp*Co(III) Metallacycles with Na[BHET₃] Show Catalytic Activity in the Hydrosilylation of Aryl Ketones, Aldehydes and Nitriles (2023) *European Journal of Inorganic Chemistry*, 26 (6), art. no. e202200563. [10.1002/ejic.202200563](https://doi.org/10.1002/ejic.202200563)
2. Song, T., Mu, Y. Cyclic and Non-cyclic π Complexes of Chromium (2022) *Comprehensive Organometallic Chemistry IV: Volume 1-15*, 1-15, pp. 81-173. [10.1016/B978-0-12-820206-7.00056-1](https://doi.org/10.1016/B978-0-12-820206-7.00056-1)
3. Gao, W.-X., Cui, P.-F., Cui, Z., Jin, G.-X. Half-Sandwich Rhodium and Iridium Complexes (2022) *Comprehensive Organometallic Chemistry IV: Volume 1-15*, 1-15, pp. 55-187. [10.1016/B978-0-12-820206-7.00144-X](https://doi.org/10.1016/B978-0-12-820206-7.00144-X)
4. Arthurs, R.A., Prior, C.C., Hughes, D.L., Oganessian, V.S., Richards, C.J. Enantiopure Planar Chiral and Chiral-at-Metal Iridacycles Derived from Bulky Cobalt Sandwich Complexes (2018) *Organometallics*, 37 (22), pp. 4204-4212. [10.1021/acs.organomet.8b00495](https://doi.org/10.1021/acs.organomet.8b00495)
5. Wang, C., Xiao, J. Iridacycles for hydrogenation and dehydrogenation reactions (2017) *Chemical Communications*, 53 (24), pp. 3399-3411. [10.1039/c7cc01103b](https://doi.org/10.1039/c7cc01103b)
6. Corre, Y., Werlé, C., Brelot-Karmazin, L., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Regioselective hydrosilylation of terminal alkynes using pentamethylcyclopentadienyl iridium(III) metallacycle catalysts (2016) *Journal of Molecular Catalysis A: Chemical*, 423, pp. 256-263. [10.1016/j.molcata.2016.07.014](https://doi.org/10.1016/j.molcata.2016.07.014)
7. Arthurs, R.A., Ismail, M., Prior, C.C., Oganessian, V.S., Horton, P.N., Coles, S.J., Richards, C.J. Enantiopure Ferrocene-Based Planar-Chiral Iridacycles: Stereospecific Control of Iridium-Centred Chirality (2016) *Chemistry - A European Journal*, 22 (9), pp. 3065-3072. [10.1002/chem.201504458](https://doi.org/10.1002/chem.201504458)
8. Baker, R.W., Turner, P., Luck, I.J. Electronic control of metal-centered chirality in η^5 -indenyl-sulfanyl and -sulfinyl rhodacycles of 2-phenylpyridine (2015) *Organometallics*, 34 (9), pp. 1751-1758. [10.1021/acs.organomet.5b00255](https://doi.org/10.1021/acs.organomet.5b00255)
9. Corre, Y., Iali, W., Hamdaoui, M., Trivelli, X., Djukic, J.-P., Agbossou-Niedercorn, F., Michon, C. Efficient hydrosilylation of imines using catalysts based on iridium(III) metallacycles (2015) *Catalysis Science and Technology*, 5 (3), pp. 1452-1458. [10.1039/c4cy01233j](https://doi.org/10.1039/c4cy01233j)

10. Han, Y.-F., Jin, G.-X. Cyclometalated [Cp*M(C[^]X)] (M = Ir, Rh; X = N, C, O, P) complexes (2014) *Chemical Society Reviews*, 43 (8), pp. 2799-2823. [10.1039/c3cs60343a](#)
11. Bezuidenhout, D.I., van der Westhuizen, B., van Jaarsveld, N.A., Lotz, S. Trends in the chemistry of mono- to multimetal π -arene complexes of chromium and manganese (2014) *Journal of Inorganic and Organometallic Polymers and Materials*, 24 (1), pp. 39-57. [10.1007/s10904-013-9983-x](#)
12. Espinosa-Jalapa, N.A., Hernández-Ortega, S., Le Goff, X.-F., Morales-Morales, D., Djukic, J.-P., Le Lagadec, R. Coordination of 12-electron organometallic fragments to the arene ring of nonsymmetric group 10 POCOP pincer complexes (2013) *Organometallics*, 32 (9), pp. 2661-2673. [10.1021/om400147x](#)
13. Djukic, J.-P., Iali, W., Pfeffer, M., Le Goff, X.-F. Synthesis of planar chiral iridacycles by cationic metal π -coordination: Facial selectivity, and conformational and stereochemical consequences (2012) *Chemistry - A European Journal*, 18 (19), pp. 6063-6078. [10.1002/chem.201103577](#)
14. Djukic, J.-P., Iali, W., Pfeffer, M., Goff, X.-F.L. Charge-induced facial-selectivity in the formation of new cationic planar chiral iridacycles derived from aniline (2011) *Chemical Communications*, 47 (12), pp. 3631-3633. [10.1039/c0cc05711h](#)
15. Djukic, J.-P., Fetzner, L., Czysz, A., Iali, W., Sirlin, C., Pfeffer, M. One-pot generation of a tris-cationic homobimetallic planar-chiral ruthenacycle (2010) *Organometallics*, 29 (7), pp. 1675-1679. [10.1021/om901066k](#)
19. **D. N. Sredojević**, G. A. Bogdanović, Z. D. Tomić and S. D. Zarić, **Stacking vs. CH/ π Interactions between Chelate and Aryl Rings in Crystal Structures of Square-Planar Transition Metal Complexes**, *CrystEngComm.*, 2007, 9, pp. 793-798.

Цитиран у:

1. Diyali, N., Chettri, M., De, A., Panda, S.J., Purohit, C.S., Biswas, B. Lattice-water tweaked Cis-Trans isomerism of a copper(II)-dipyridylamine-azide complex and their aggregation features (2023) *Giant*, 15, art. no. 100167. [10.1016/j.giant.2023.100167](#)
2. Middya, P., Karmakar, M., Frontera, A., Chattopadhyay, S. Insight into the role of pseudo-halides as multiple hydrogen bond acceptors in the formation of supramolecular 1D assembly of di and trinuclear zinc complexes (2023) *Inorganica Chimica Acta*, 553, art. no. 121516. [10.1016/j.ica.2023.121516](#)
3. de las Nieves Piña, M., Mooibroek, T.J., Frontera, A., Bauzá, A. Importance of Cu and Ag region- π bonds in supramolecular chemistry and biology: a combined crystallographic and ab initio study (2022) *Physical Chemistry Chemical Physics*, 24 (40), pp. 24983-24991. [10.1039/d2cp03874a](#)
4. Honda, A., Hibi, Y., Matsumoto, K., Kawai, M., Miyamura, K. Alkyl substituent-dependent systematic change in cold crystallization of azo molecules (2022) *RSC Advances*, 12 (12), pp. 7229-7236. [10.1039/d2ra00942k](#)
5. Tan, Y.S., Yeo, C.I., Tiekink, E.R.T., Heard, P.J. Dithiocarbamate complexes of platinum group metals: Structural aspects and applications (2021) *Inorganics*, 9 (8), art. no. 60. [10.3390/inorganics9080060](#)
6. Tan, S.L., Lee, S.M., Lo, K.M., Otero-De-La-Roza, A., Tiekink, E.R.T. Experimental and computational evidence for a stabilising C-Cl(lone-pair)··· π (chelate-ring) interaction (2021) *CrystEngComm*, 23 (1), pp. 119-130. [10.1039/d0ce01478h](#)
7. Maity, S., Ghosh, T.K., Gomila, R.M., Frontera, A., Ghosh, A. Recurrent π (arene)··· π (chelate ring) motifs in four trinuclear CuII2MII(M = Cd/Zn) complexes derived from an unsymmetrical N2O2donor ligand: Structural and theoretical investigations (2020) *CrystEngComm*, 22 (44), pp. 7673-7683. [10.1039/d0ce01219j](#)
8. Tiekink, E.R.T. The remarkable propensity for the formation of C-H··· π (chelate ring) interactions in the crystals of the first-row transition metal dithiocarbamates and the supramolecular architectures they sustain (2020) *CrystEngComm*, 22 (43), pp. 7308-7333. [10.1039/d0ce00289e](#)

9. Karmakar, M., Frontera, A., Chattopadhyay, S. Methylene spacer regulated variation in supramolecular assembly of zinc(ii) dicyanamide complexes with reduced Schiff base ligands: Synthesis, structure and DFT study (2020) *CrystEngComm*, 22 (41), pp. 6876-6885. [10.1039/d0ce01105c](https://doi.org/10.1039/d0ce01105c)
10. Mapley, J.I., Ross, D.A.W., McAdam, C.J., Gordon, K.C., Crowley, J.D. Triphenylamine-substituted 2-pyridyl-1,2,3-triazole copper(I) complexes: an experimental and computational investigation (2019) *Journal of Coordination Chemistry*, 72 (8), pp. 1378-1394. [10.1080/00958972.2019.1593388](https://doi.org/10.1080/00958972.2019.1593388)
11. Tan, S.L., Jotani, M.M., Tiekink, E.R.T. Utilizing Hirshfeld surface calculations, non-covalent interaction (NCI) plots and the calculation of interaction energies in the analysis of molecular packing (2019) *Acta Crystallographica Section E: Crystallographic Communications*, 75, pp. 308-318. [10.1107/S2056989019001129](https://doi.org/10.1107/S2056989019001129)
12. Ahmed, F., Ghosh, S.R., Halder, S., Guin, S., Alam, S.M., Ray, P.P., Jana, A.D., Mir, M.H. Metal-ligand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device (2019) *New Journal of Chemistry*, 43 (6), pp. 2710-2717. [10.1039/C8NJ05526B](https://doi.org/10.1039/C8NJ05526B)
13. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
14. Mahmoudi, G., Khandar, A.A., Afkhami, F.A., Mirosław, B., Gurbanov, A.V., Zubkov, F.I., Kennedy, A., Franconetti, A., Frontera, A. Modulation of coordination in pincer-type isonicotinohydrazone Schiff base ligands by proton transfer (2019) *CrystEngComm*, 21 (1), pp. 108-117. [10.1039/c8ce01580e](https://doi.org/10.1039/c8ce01580e)
15. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate-aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](https://doi.org/10.1002/qua.25629)
16. Mahmoudi, G., Zareba, J.K., Bauzá, A., Kubicki, M., Bartyzel, A., Keramidias, A.D., Butusov, L., Mirosław, B., Frontera, A. Recurrent supramolecular motifs in discrete complexes and coordination polymers based on mercury halides: Prevalence of chelate ring stacking and substituent effects (2018) *CrystEngComm*, 20 (8), pp. 1065-1076. [10.1039/c7ce02166f](https://doi.org/10.1039/c7ce02166f)
17. Tiekink, E.R.T. Supramolecular assembly based on “emerging” intermolecular interactions of particular interest to coordination chemists (2017) *Coordination Chemistry Reviews*, 345, pp. 209-228. [10.1016/j.ccr.2017.01.009](https://doi.org/10.1016/j.ccr.2017.01.009)
18. Jana, S., Khan, S., Bauzá, A., Frontera, A., Chattopadhyay, S. The crucial role of chelate-chelate stacking interactions in the crystal structure of a square planar copper(II) complex (2017) *Journal of Molecular Structure*, 1127, pp. 355-360. [10.1016/j.molstruc.2016.07.062](https://doi.org/10.1016/j.molstruc.2016.07.062)
19. Afkhami, F.A., Khandar, A.A., Mahmoudi, G., Maniukiewicz, W., Gurbanov, A.V., Zubkov, F.I., Şahin, O., Yesilel, O.Z., Frontera, A. Chelate ring stacking interactions in the supramolecular assemblies of Zn(ii) and Cd(ii) coordination compounds: a combined experimental and theoretical study (2017) *CrystEngComm*, 19 (10), pp. 1389-1399. [10.1039/c6ce02666d](https://doi.org/10.1039/c6ce02666d)
20. Blagojević, J.P., Veljković, D., Zarić, S.D. Stacking interactions between hydrogen-bridged and aromatic rings: study of crystal structures and quantum chemical calculations (2017) *CrystEngComm*, 19 (1), pp. 40-46. [10.1039/c6ce02045c](https://doi.org/10.1039/c6ce02045c)
21. Malenov, D.P., Dragelj, J.L., Janjić, G.V., Zarić, S.D. Coordinating benzenes stack stronger than noncoordinating benzenes, even at large horizontal displacements (2016) *Crystal Growth and Design*, 16 (8), pp. 4169-4172. [10.1021/acs.cgd.5b01514](https://doi.org/10.1021/acs.cgd.5b01514)
22. Sutradhar, M., Pombeiro, A.J.L. π - π Interaction Directed Applications of Metal Complexes (2016) *Non-covalent Interactions in the Synthesis and Design of New Compounds*, pp. 101-114. [10.1002/9781119113874.ch6](https://doi.org/10.1002/9781119113874.ch6)
23. McKay, A.P., Lo, W.K.C., Preston, D., Giles, G.I., Crowley, J.D., Barnsley, J.E., Gordon, K.C., McMorran, D.A. Palladium(II) and platinum(II) complexes of ((2-pyridyl)pyrazol-1-ylmethyl)benzoic acids: Synthesis, Solid state characterisation and biological cytotoxicity (2016) *Inorganica Chimica Acta*, 446, pp. 41-53. [10.1016/j.ica.2016.02.038](https://doi.org/10.1016/j.ica.2016.02.038)

24. Blagojević, J.P., Janjić, G.V., Zarić, S.D. Very strong parallel interactions between two saturated acyclic groups closed with intramolecular hydrogen bonds forming hydrogen-bridged rings (2016) *Crystals*, 6 (4), art. no. 34. [10.3390/cryst6040034](https://doi.org/10.3390/cryst6040034)
25. Bhattacharya, S., Roy, S., Harms, K., Bauza, A., Frontera, A., Chattopadhyay, S. Importance of chelate-chelate stacking interactions in crystal structures of square pyramidal copper(II) complexes with two distinct chelating bidentate ligands (2016) *Inorganica Chimica Acta*, 442, pp. 16-23. [10.1016/j.ica.2015.11.002](https://doi.org/10.1016/j.ica.2015.11.002)
26. Mahmoudi, G., Castiñeiras, A., Garczarek, P., Bauzá, A., Rheingold, A.L., Kinzhybalov, V., Frontera, A. Synthesis, X-ray characterization, DFT calculations and Hirshfeld surface analysis of thiosemicarbazone complexes of Mn²⁺ ions (n = 2, 3; M = Ni, Cd, Mn, Co and Cu) (2016) *CrystEngComm*, 18 (6), pp. 1009-1023. [10.1039/c5ce02371h](https://doi.org/10.1039/c5ce02371h)
27. Malenov, D.P., Zarić, S.D. Parallel interactions of aromatic and heteroaromatic molecules [Paralelne interakcije aromatičnih i heteroaromatičnih molekula] (2016) *Hemijska Industrija*, 70 (6), pp. 649-659. [10.2298/HEMIND151009003M](https://doi.org/10.2298/HEMIND151009003M)
28. Mahapatra, T.S., Bauzá, A., Dutta, D., Mishra, S., Frontera, A., Ray, D. Carboxylate Coordination Assisted Aggregation for Quasi-Tetrahedral and Partial-Dicubane [Cu₄] Coordination Clusters (2016) *ChemistrySelect*, 1 (1), pp. 64-75. [10.1002/slct.201600006](https://doi.org/10.1002/slct.201600006)
29. Mahmoudi, G., Bauzá, A., Gurbanov, A.V., Zubkov, F.I., Maniukiewicz, W., Rodríguez-Diéguez, A., López-Torres, E., Frontera, A. The role of unconventional stacking interactions in the supramolecular assemblies of Hg(II) coordination compounds (2016) *CrystEngComm*, 18 (47), pp. 9056-9066. [10.1039/c6ce02073a](https://doi.org/10.1039/c6ce02073a)
30. Malenov, D.P., Ninković, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) *ChemPhysChem*, 16 (4), pp. 761-768. [10.1002/cphc.201402589](https://doi.org/10.1002/cphc.201402589)
31. Zarić, S.D., Malenov, D.P., Ninković, D.B. Strong stacking between organic and organometallic molecules as the key for material design (2015) *Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015*, pp. 409-413. [10.1002/9781119090427.ch43](https://doi.org/10.1002/9781119090427.ch43)
32. Žilić, D., Rakvin, B., Milić, D., Pajić, D., Lilović, I., Cametti, M., Džolić, Z. Crystal structures and magnetic properties of a set of dihalo-bridged oxalamidato copper(II) dimers (2014) *Dalton Transactions*, 43 (31), pp. 11877-11887. [10.1039/c4dt00925h](https://doi.org/10.1039/c4dt00925h)
33. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](https://doi.org/10.1021/cg500447h)
34. Malenov, D.P., Zarić, S.D. Novel parallel stacking interactions of aromatic molecules (2014) *Quantum Nanosystems: Structure, Properties, and Interactions*, pp. 353-381. [10.1201/b17412](https://doi.org/10.1201/b17412)
35. Dragelj, J.L., Janjić, G.V., Veljković, D.Z., Zarić, S.D. Crystallographic and ab initio study of pyridine CH-O interactions: Linearity of the interactions and influence of pyridine classical hydrogen bonds (2013) *CrystEngComm*, 15 (48), pp. 10481-10489. [10.1039/c3ce40759d](https://doi.org/10.1039/c3ce40759d)
36. Reid, S.A., Nyambo, S., Muzangwa, L., Uhler, B. π -Stacking, C-H/ π , and halogen bonding interactions in bromobenzene and mixed bromobenzene-benzene clusters (2013) *Journal of Physical Chemistry A*, 117 (50), pp. 13556-13563. [10.1021/jp407544c](https://doi.org/10.1021/jp407544c)
37. Janjić, G.V., Ninković, D.B., Zarić, S.D. Influence of supramolecular structures in crystals on parallel stacking interactions between pyridine molecules (2013) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 69 (4), pp. 389-394. [10.1107/S2052519213013961](https://doi.org/10.1107/S2052519213013961)
38. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/ π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](https://doi.org/10.1016/j.jinorgbio.2012.09.002)

39. Muzangwa, L., Nyambo, S., Uhler, B., Reid, S.A. On π -stacking, C-H π , and halogen bonding interactions in halobenzene clusters: Resonant two-photon ionization studies of chlorobenzene (2012) *Journal of Chemical Physics*, 137 (18), art. no. 184307. [10.1063/1.4765102](https://doi.org/10.1063/1.4765102)
40. Čobeljić, B., Warzajtis, B., Rychlewska, U., Radanović, D., Spasojević, V., Sladić, D., Eshkourfu, R., Andelković, K. Synthesis and structure of a Ni(II) complex with N', N' 2-bis[(1E)-1-(2-quinolyl)methylene]propanedihydrazide: Multiple intramolecular CH \cdots π interactions between quinoline and quinolineimine chelate (2012) *Journal of Coordination Chemistry*, 65 (4), pp. 655-667. [10.1080/00958972.2012.658778](https://doi.org/10.1080/00958972.2012.658778)
41. Konidaris, K.F., Tsipis, A.C., Kostakis, G.E. Shedding light on intermolecular metal-organic ring interactions by theoretical studies (2012) *ChemPlusChem*, 77 (5), pp. 354-360. [10.1002/cplu.201200018](https://doi.org/10.1002/cplu.201200018)
42. Janjić, G.V., Zarić, S.D. Noncovalent Interactions of π -Systems in Crystal Structures of Transition-Metal Complexes (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 243-274. [10.1002/9781119945888.ch10](https://doi.org/10.1002/9781119945888.ch10)
43. Nishio, M., Umezawa, Y., Suezawa, H., Tsuboyama, S. The CH/ π Hydrogen Bond: Implication in Crystal Engineering (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 1-39. [10.1002/9781119945888.ch1](https://doi.org/10.1002/9781119945888.ch1)
44. Ninković, D.B., Janjić, G.V., Zarić, S.D. Crystallographic and ab initio study of pyridine stacking interactions. Local nature of hydrogen bond effect in stacking interactions (2012) *Crystal Growth and Design*, 12 (3), pp. 1060-1063. [10.1021/cg201389y](https://doi.org/10.1021/cg201389y)
45. Mosae Selvakumar, P., Nadella, S., Jeya Prathap, K., Kureshy, R.I., Suresh, E., Subramanian, P.S. Synthesis, crystal structure, and catalytic studies on dinuclear copper(II) mesocates (2011) *Inorganica Chimica Acta*, 375 (1), pp. 106-113. [10.1016/j.ica.2011.04.033](https://doi.org/10.1016/j.ica.2011.04.033)
46. Veljković, D.Z., Janjić, G.V., Zarić, S.D. Are C-H \cdots O interactions linear? the case of aromatic CH donors (2011) *CrystEngComm*, 13 (15), pp. 5005-5010. [10.1039/c1ce05065f](https://doi.org/10.1039/c1ce05065f)
47. Janjić, G.V., Petrović, P.V., Ninković, D.B., Zarić, S.D. Geometries of stacking interactions between phenanthroline ligands in crystal structures of square-planar metal complexes (2011) *Journal of Molecular Modeling*, 17 (8), pp. 2083-2092. [10.1007/s00894-010-0905-3](https://doi.org/10.1007/s00894-010-0905-3)
48. Janjić, G.V., Veljković, D.Z., Zarić, S.D. Water/aromatic parallel alignment interactions. Significant interactions at large horizontal displacements (2011) *Crystal Growth and Design*, 11 (7), pp. 2680-2683. [10.1021/cg101208q](https://doi.org/10.1021/cg101208q)
49. New, S.Y., Wu, X., Bai, S.-Q., Koh, L.L., Hor, T.S.A., Xue, F. Lipid-bilayer-mimicking solid-state structures of Cu(ii) and Ni(ii) with l-tryptophan and l-tyrosine Schiff base derivatives (2011) *CrystEngComm*, 13 (12), pp. 4228-4235. [10.1039/c0ce00986e](https://doi.org/10.1039/c0ce00986e)
50. Ni, Q.-L., Jiang, X.-F., Gui, L.-C., Wang, X.-J., Yang, K.-G., Bi, X.-S. Synthesis, structures and characterization of a series of Cu(i)-diimine complexes with labile N,N'-bis((diphenylphosphino)methyl)naphthalene-1,5- diamine: Diverse structures directed by π - π Stacking interactions (2011) *New Journal of Chemistry*, 35 (11), pp. 2471-2476. [10.1039/c1nj20355j](https://doi.org/10.1039/c1nj20355j)
51. Janjić, G., Petrović, P., Ninković, D., Veljković, D., Kapor, A., Zarić, S.D. Stacking interactions between pyridine fragments in crystal structures of terpyridyl complexes (2010) *Studia Universitatis Babes-Bolyai Chemia*, (3), pp. 165-176.
52. Câmpian, M.V., Haiduc, I., Tiekink, E.R.T. Crystal and molecular structures of two 1:1 Adducts of bis(O-ethyl dithiocarbonato-S,S')manganese(II): Mn(S₂COCH₂CH₃)₂ (1,10-phenanthroline) and Mn(S₂COCH₂CH₃)₂ (2,2'-bipyridyl) (2010) *Journal of Chemical Crystallography*, 40 (11), pp. 1029-1034. [10.1007/s10870-010-9790-y](https://doi.org/10.1007/s10870-010-9790-y)
53. Janjić, G., Andrić, J., Kapor, A., Bugarić, I.D., Zarić, S.D. Classification of stacking interaction geometries of terpyridyl square-planar complexes in crystal structures (2010) *CrystEngComm*, 12 (11), pp. 3773-3779. [10.1039/b917268h](https://doi.org/10.1039/b917268h)

54. Madura, I.D., Zachara, J., Leszczyńska, K., Kunicki, A.R. Crystal structure of dicyclopentadienylaluminum complex directed by weak C-H... π interactions (2010) *Journal of Molecular Structure*, 968 (1-3), pp. 93-98. [10.1016/j.molstruc.2010.01.029](#)
 55. Tiekink, E.R.T., Zukerman-Schpector, J. A structural survey of metal... π heteroaromatic supramolecular synthons for metal = tellurium, tin, and gold (2009) *CrystEngComm*, 11 (12), pp. 2701-2711. [10.1039/b910209d](#)
 56. Janjić, G.V., Milčić, M.K., Zarić, S.D. Intramolecular MLOH/ π and MLNH/ π interactions in crystal structures of metal complexes (2009) *Chemical Papers*, 63 (3), pp. 298-305. [10.2478/s11696-009-0020-z](#)
 57. Nishio, M., Umezawa, Y., Honda, K., Tsuboyama, S., Suezawa, H. CH/ π hydrogen bonds in organic and organometallic chemistry (2009) *CrystEngComm*, 11 (9), pp. 1757-1788. [10.1039/b902318f](#)
 58. Mondal, P., Karmakar, A., Singh, W.M., Baruah, J.B. Crystal packing in some flexible carboxylic acids and esters attached to a naphthalene ring (2008) *CrystEngComm*, 10 (11), pp. 1550-1559. [10.1039/b808399a](#)
 59. Wang, X.-J., Gui, L.-C., Ni, Q.-L., Liao, Y.-F., Jiang, X.-F., Tang, L.-H., Zhang, Z., Wu, Q. π -Stacking induced complexes with Z-shape motifs featuring a complementary approach between electron-rich arene diamines and electron-deficient aromatic N-heterocycles (2008) *CrystEngComm*, 10 (8), pp. 1003-1010. [10.1039/b800082d](#)
 60. Ostojić, B.D., Janjić, G.V., Zarić, S.D. Parallel alignment of water and aryl rings - Crystallographic and theoretical evidence for the interaction (2008) *Chemical Communications*, (48), pp. 6546-6548. [10.1039/b812925h](#)
20. **D. N. Sredojević, Z. D. Tomić and S. D. Zarić, Influence of metal and ligand types on stacking interactions of phenyl rings with square-planar transition metal complexes, *Central European Journal of Chemistry* 2007, 5(1), pp. 1-11.**

Цитиран у:

1. Sykora, R.E. Synthesis, Structure, and Luminescence of a Molecular Europium Tetracyanoplatinate Incorporating 4,5-Diazafluoren-9-One (2023) *Crystals*, 13 (2), art. no. 317. [10.3390/cryst13020317](#)
2. Maity, S., Ghosh, T.K., Gomila, R.M., Frontera, A., Ghosh, A. Recurrent $\pi(\text{arene})\cdots\pi(\text{chelate ring})$ motifs in four trinuclear $\text{CuII}2\text{MII}(\text{M} = \text{Cd/Zn})$ complexes derived from an unsymmetrical N_2O_2 donor ligand: Structural and theoretical investigations (2020) *CrystEngComm*, 22 (44), pp. 7673-7683. [10.1039/d0ce01219j](#)
3. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](#)
4. Mahmoudi, G., Khandar, A.A., Afkhami, F.A., Mirosław, B., Gurbanov, A.V., Zubkov, F.I., Kennedy, A., Franconetti, A., Frontera, A. Modulation of coordination in pincer-type isonicotinohydrazone Schiff base ligands by proton transfer (2019) *CrystEngComm*, 21 (1), pp. 108-117. [10.1039/c8ce01580e](#)
5. Mahmoudi, G., Zaręba, J.K., Bauzá, A., Kubicki, M., Bartyzel, A., Keramidias, A.D., Butusov, L., Mirosław, B., Frontera, A. Recurrent supramolecular motifs in discrete complexes and coordination polymers based on mercury halides: Prevalence of chelate ring stacking and substituent effects (2018) *CrystEngComm*, 20 (8), pp. 1065-1076. [10.1039/c7ce02166f](#)
6. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](#)
7. Jana, S., Khan, S., Bauzá, A., Frontera, A., Chattopadhyay, S. The crucial role of chelate-chelate stacking interactions in the crystal structure of a square planar copper(II) complex (2017) *Journal of Molecular Structure*, 1127, pp. 355-360. [10.1016/j.molstruc.2016.07.062](#)

8. Marcos, I., Ojea, V., Vázquez-García, D., Fernández, J.J., Fernández, A., López-Torres, M., Lado, J., Vila, J.M. Preparation and characterization of terdentate [C,N,N] acetophenone and acetylpyridine hydrazone platinacycles: A DFT insight into the reaction mechanism (2017) *Dalton Transactions*, 46 (48), pp. 16845-16860. [10.1039/c7dt03418k](#)
9. Afkhami, F.A., Khandar, A.A., Mahmoudi, G., Maniukiewicz, W., Gurbanov, A.V., Zubkov, F.I., Şahin, O., Yesilel, O.Z., Frontera, A. Chelate ring stacking interactions in the supramolecular assemblies of Zn(ii) and Cd(ii) coordination compounds: a combined experimental and theoretical study (2017) *CrystEngComm*, 19 (10), pp. 1389-1399. [10.1039/c6ce02666d](#)
10. Bhattacharya, S., Roy, S., Harms, K., Bauza, A., Frontera, A., Chattopadhyay, S. Importance of chelate-chelate stacking interactions in crystal structures of square pyramidal copper(II) complexes with two distinct chelating bidentate ligands (2016) *Inorganica Chimica Acta*, 442, pp. 16-23. [10.1016/j.ica.2015.11.002](#)
11. Mahmoudi, G., Castiñeiras, A., Garczarek, P., Bauzá, A., Rheingold, A.L., Kinzhybalov, V., Frontera, A. Synthesis, X-ray characterization, DFT calculations and Hirshfeld surface analysis of thiosemicarbazone complexes of Mn⁺ ions (n = 2, 3; M = Ni, Cd, Mn, Co and Cu) (2016) *CrystEngComm*, 18 (6), pp. 1009-1023. [10.1039/c5ce02371h](#)
12. Mahapatra, T.S., Bauzá, A., Dutta, D., Mishra, S., Frontera, A., Ray, D. Carboxylate Coordination Assisted Aggregation for Quasi-Tetrahedral and Partial-Dicubane [Cu₄] Coordination Clusters (2016) *ChemistrySelect*, 1 (1), pp. 64-75. [10.1002/slct.201600006](#)
13. Mahmoudi, G., Bauzá, A., Gurbanov, A.V., Zubkov, F.I., Maniukiewicz, W., Rodríguez-Diéguez, A., López-Torres, E., Frontera, A. The role of unconventional stacking interactions in the supramolecular assemblies of Hg(ii) coordination compounds (2016) *CrystEngComm*, 18 (47), pp. 9056-9066. [10.1039/c6ce02073a](#)
14. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](#)
15. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](#)
16. Marchewka, A., Czyżnikowska, Z., Cebrat, M., Brasuń, J. The structural aspects of the copper(II) binding by the His-analogue of somatostatin (2012) *Polyhedron*, 42 (1), pp. 236-242. [10.1016/j.poly.2012.05.024](#)
17. Janjić, G.V., Zarić, S.D. Noncovalent Interactions of π-Systems in Crystal Structures of Transition-Metal Complexes (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 243-274. [10.1002/9781119945888.ch10](#)
18. Janjić, G.V., Petrović, P.V., Ninković, D.B., Zarić, S.D. Geometries of stacking interactions between phenanthroline ligands in crystal structures of square-planar metal complexes (2011) *Journal of Molecular Modeling*, 17 (8), pp. 2083-2092. [10.1007/s00894-010-0905-3](#)
19. Janjić, G., Petrović, P., Ninković, D., Veljković, D., Kapor, A., Zarić, S.D. Stacking interactions between pyridine fragments in crystal structures of terpyridyl complexes (2010) *Studia Universitatis Babes-Bolyai Chemia*, (3), pp. 165-176.
20. Janjić, G., Andrić, J., Kapor, A., Bugarić, I.D., Zarić, S.D. Classification of stacking interaction geometries of terpyridyl square-planar complexes in crystal structures (2010) *CrystEngComm*, 12 (11), pp. 3773-3779. [10.1039/b917268h](#)
21. Janjić, G.V., Milčić, M.K., Zarić, S.D. Intramolecular MLOH/π and MLNH/π interactions in crystal structures of metal complexes (2009) *Chemical Papers*, 63 (3), pp. 298-305. [10.2478/s11696-009-0020-z](#)
22. Milčić, M.K., Ostojić, B.D., Zarić, S.D. Are chelate rings aromatic? Calculations of magnetic properties of acetylacetonato and o-benzoquinonediimine chelate rings (2007) *Inorganic Chemistry*, 46 (17), pp. 7109-7114. [10.1021/ic062292w](#)

21. M. K. Milčić, V. B. Medaković, **D. N. Sredojević**, N. O. Juranić and S. D. Zarić, **Electron delocalization mediated metal-dependent capacity for CH/ π interactions of acetylacetonato chelates**, *Inorg. Chem.*, 2006, 45, pp. 4755-4763.

Цитиран у:

1. Okpareke, O.C., Lane, J.R., Tiekink, E.R.T., Henderson, W. Platinum(II) complexes containing pyridyl-substituted thiourea dianion and monoanion ligands: Synthesis, structural chemistry, and theoretical investigations (2023) *Inorganica Chimica Acta*, 556, art. no. 121647. [10.1016/j.ica.2023.121647](https://doi.org/10.1016/j.ica.2023.121647)
2. Wititsuwannakul, T., Hall, M.B., Gladysz, J.A. Mechanism of Coupling of Methylidene to Ethylene Ligands in Dimetallic Assemblies; Computational Investigation of a Model for a Key Step in Catalytic C1Chemistry (2022) *Journal of the American Chemical Society*, 144 (40), pp. 18672-18687. [10.1021/jacs.2c08886](https://doi.org/10.1021/jacs.2c08886)
3. Chochkova, M., Jiang, H., Kyoseva, R., Stoykova, B., Tsvetanova, E., Alexandrova, A., Liu, R., Li, Z., Mitrev, Y., Dimitrova-Sbirkova, H., Štícha, M., Shivachev, B. Cinnamoyl-memantine hybrids: Synthesis, X-ray crystallography and biological activities (2021) *Journal of Molecular Structure*, 1234, art. no. 130147. [10.1016/j.molstruc.2021.130147](https://doi.org/10.1016/j.molstruc.2021.130147)
4. Tiekink, E.R.T. The remarkable propensity for the formation of C-H $\cdots\pi$ (chelate ring) interactions in the crystals of the first-row transition metal dithiocarbamates and the supramolecular architectures they sustain (2020) *CrystEngComm*, 22 (43), pp. 7308-7333.: [10.1039/d0ce00289e](https://doi.org/10.1039/d0ce00289e)
5. Basak, T., Frontera, A., Chattopadhyay, S. A theoretical insight into non-covalent supramolecular interactions in the solid state structures of two octahedral iron(iii) complexes (2020) *CrystEngComm*, 22 (35), pp. 5731-5742. [10.1039/d0ce00955e](https://doi.org/10.1039/d0ce00955e)
6. Jebastin Andrews, S.G., Benita Jeba Silviya, S., Bhuvanesh, N.S.P., Janet Sylvia Jaba Rose, J., Winfred Jebaraj, J., Balakrishnan, C. Crystal structure and evaluating C[\cdots]H $\cdots\pi$ (aryl/chelate) interactions in bis(2-[(2-hydroxyethyl)imino]-methyl)-4,6-diiodophenolato)-palladium(II) Schiff base complex derived from (E)-2-(((2-hydroxyethyl)imino)methyl)-4,6-diiodophenol (2019) *Inorganica Chimica Acta*, 498, art. no. 119118. [10.1016/j.ica.2019.119118](https://doi.org/10.1016/j.ica.2019.119118)
7. Dey, S., Sil, S., Dutta, B., Naskar, K., Maity, S., Ray, P.P., Sinha, C. Designing of Pb(II)-Based Novel Coordination Polymers (CPs): Structural Elucidation and Optoelectronic Application (2019) *ACS Omega*, 4 (22), pp. 19959-19968. [10.1021/acsomega.9b02899](https://doi.org/10.1021/acsomega.9b02899)
8. Majumdar, D., Das, S., Thomas, R., Ullah, Z., Sreejith, S.S., Das, D., Shukla, P., Bankura, K., Mishra, D. Syntheses, X-ray crystal structures of two new Zn(II)-dicyanamide complexes derived from H₂ vanen-type compartmental ligands: Investigation of thermal, photoluminescence, in vitro cytotoxic effect and DFT-TDDFT studies (2019) *Inorganica Chimica Acta*, 492, pp. 221-234. [10.1016/j.ica.2019.04.041](https://doi.org/10.1016/j.ica.2019.04.041)
9. Tan, Y.J., Tan, Y.S., Yeo, C.I., Chew, J., Tiekink, E.R.T. In vitro anti-bacterial and time kill evaluation of binuclear tricyclohexylphosphanesilver(I) dithiocarbamates, {Cy₃PAg(S₂CNRR')}₂ (2019) *Journal of Inorganic Biochemistry*, 192, pp. 107-118. [10.1016/j.jinorgbio.2018.12.017](https://doi.org/10.1016/j.jinorgbio.2018.12.017)
10. Yusof, E.N.M., Latif, M.A.M., Tahir, M.I.M., Sakoff, J.A., Simone, M.I., Page, A.J., Veerakumarasivam, A., Tiekink, E.R.T., Ravoo, T.B.S.A. O-vanillin derived schiff bases and their organotin(IV) compounds: Synthesis, structural characterisation, in-silico studies and cytotoxicity (2019) *International Journal of Molecular Sciences*, 20 (4), art. no. 854. [10.3390/ijms20040854](https://doi.org/10.3390/ijms20040854)
11. Ahmed, F., Ghosh, S.R., Halder, S., Guin, S., Alam, S.M., Ray, P.P., Jana, A.D., Mir, M.H. Metal-ligand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device (2019) *New Journal of Chemistry*, 43 (6), pp. 2710-2717. [10.1039/C8NJ05526B](https://doi.org/10.1039/C8NJ05526B)
12. Singh, R.P., Maurya, V.K., Maiti, B., Siddiqui, K.A., Prasad, L.B. Three new homoleptic nickel(II) 1,1-dithiocarbamate complexes: synthesis, structure, electrical conductivity and DFT study (2018) *Journal of Coordination Chemistry*, 71 (16-18), pp. 3008-3020. [10.1080/00958972.2018.1506112](https://doi.org/10.1080/00958972.2018.1506112)

13. Mahapatra, P., Bauzá, A., Frontera, A., Drew, M.G.B., Ghosh, A. Syntheses of four new asymmetric Schiff bases and their Cu(II) complexes: Theoretical calculations to rationalize the packing of molecules in the crystals (2018) *Inorganica Chimica Acta*, 477, pp. 89-101. [10.1016/j.ica.2018.01.035](https://doi.org/10.1016/j.ica.2018.01.035)
14. Dutta, B., Pratik, S.M., Jana, S., Sinha, C., Datta, A., Mir, M.H. Novel Br $\cdots\pi$ (Chelate) Interaction in a 1D Coordination Polymer Revealing Aromaticity (2018) *ChemistrySelect*, 3 (16), pp. 4289-4291. [10.1002/slct.201800738](https://doi.org/10.1002/slct.201800738)
15. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional C-H $\cdots\pi$ (aryl) and unconventional C-H $\cdots\pi$ (chelate) interactions in dinuclear Cu(ii) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](https://doi.org/10.1039/c8nj00747k)
16. Stanković, I.M., Božinovski, D.M., Brothers, E.N., Belić, M.R., Hall, M.B., Zarić, S.D. Interactions of aromatic residues in amyloids: A survey of protein data bank crystallographic data (2017) *Crystal Growth and Design*, 17 (12), pp. 6353-6362. [10.1021/acs.cgd.7b01035](https://doi.org/10.1021/acs.cgd.7b01035)
17. Afanas'eva, V.A., Glinskaya, L.A., Piryazev, D.A., Gromilov, S.A., Plyusnin, P.E., Sheludiyakova, L.A. Synthesis, crystal structure and thermal behavior of 5,7,12,14-tetramethyl-1,4,8,11-tetraazacyclotetradeca-4,6,11,13-tetraenatogold(III) tetraphenylborate (2017) *Inorganic Chemistry Communications*, 83, pp. 70-75. [10.1016/j.inoche.2017.05.031](https://doi.org/10.1016/j.inoche.2017.05.031)
18. Tiekink, E.R.T. Supramolecular assembly based on “emerging” intermolecular interactions of particular interest to coordination chemists (2017) *Coordination Chemistry Reviews*, 345, pp. 209-228. [10.1016/j.ccr.2017.01.009](https://doi.org/10.1016/j.ccr.2017.01.009)
19. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
20. Jana, S., Khan, S., Bauzá, A., Frontera, A., Chattopadhyay, S. The crucial role of chelate-chelate stacking interactions in the crystal structure of a square planar copper(II) complex (2017) *Journal of Molecular Structure*, 1127, pp. 355-360. [10.1016/j.molstruc.2016.07.062](https://doi.org/10.1016/j.molstruc.2016.07.062)
21. Roy, S., Drew, M.G.B., Bauzá, A., Frontera, A., Chattopadhyay, S. Estimation of conventional C-H $\cdots\pi$ (arene), unconventional C-H $\cdots\pi$ (chelate) and C-H $\cdots\pi$ (thiocyanate) interactions in hetero-nuclear nickel(II)-cadmium(II) complexes with a compartmental Schiff base (2017) *Dalton Transactions*, 46 (16), pp. 5384-5397. [10.1039/c6dt04906k](https://doi.org/10.1039/c6dt04906k)
22. Câmpian, M.V., Azizuddin, A.D., Haiduc, I., Tiekink, E.R.T. Mono urotropine adducts of some binary zinc xanthates and dithiocarbamates: Solid-state molecular structures and supramolecular self-assembly (2016) *Zeitschrift für Kristallographie - Crystalline Materials*, 231 (12), pp. 737-747. [10.1515/zkri-2016-1985](https://doi.org/10.1515/zkri-2016-1985)
23. Malenov, D.P., Dragelj, J.L., Janjić, G.V., Zarić, S.D. Coordinating benzenes stack stronger than noncoordinating benzenes, even at large horizontal displacements (2016) *Crystal Growth and Design*, 16 (8), pp. 4169-4172. [10.1021/acs.cgd.5b01514](https://doi.org/10.1021/acs.cgd.5b01514)
24. Bhattacharya, S., Roy, S., Harms, K., Bauza, A., Frontera, A., Chattopadhyay, S. Importance of chelate-chelate stacking interactions in crystal structures of square pyramidal copper(II) complexes with two distinct chelating bidentate ligands (2016) *Inorganica Chimica Acta*, 442, pp. 16-23. [10.1016/j.ica.2015.11.002](https://doi.org/10.1016/j.ica.2015.11.002)
25. Tan, Y.S., Halim, S.N.A., Molloy, K.C., Sudlow, A.L., Otero-De-La-Roza, A., Tiekink, E.R.T. Persistence of C-H $\cdots\pi$ (chelate ring) interactions in the crystal structures of Pd(S₂COR)₂. the utility of Pd(S₂COR)₂ as precursors for palladium sulphide materials (2016) *CrystEngComm*, 18 (7), pp. 1105-1117. [10.1039/c5ce02126j](https://doi.org/10.1039/c5ce02126j)
26. Malenov, D.P., Zarić, S.D. Parallel interactions of aromatic and heteroaromatic molecules [Paralelne interakcije aromatičnih i heteroaromatičnih molekula] (2016) *Hemijska Industrija*, 70 (6), pp. 649-659. [10.2298/HEMIND151009003M](https://doi.org/10.2298/HEMIND151009003M)

27. Zukerman-Schpector, J., Yeo, C.I., Tiekink, E.R.T. Supramolecular architectures sustained by arene-C-H $\cdots\pi$ (quasi-chelate ring) interactions in the crystal structures of copper(I) complexes (2016) *Zeitschrift für Kristallographie - Crystalline Materials*, 231 (1), pp. 55-64. [10.1515/zkri-2015-1868](#)
28. Montazerzohori, M., Nasr-Esfahani, M., Zahedi, S., Nagiha, R. Synthesis and spectral characterization of bis(3(4-dimethylaminophenyl)-2-prop-1-enylidene)-1,2-diaminoethane and some new mercury complexes: An antibacterial and antifungal investigation (2015) *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 45 (10), pp. 1525-1532. [10.1080/15533174.2013.862831](#)
29. Lin, X., Hong, Y., Zhang, C., Huang, R., Wang, C., Lin, W. Pre-concentration and energy transfer enable the efficient luminescence sensing of transition metal ions by metal-organic frameworks (2015) *Chemical Communications*, 51 (95), pp. 16996-16999. [10.1039/c5cc06453h](#)
30. Konar, S. Dicyanamide bridged two new zig-zag 1-D Zn(II) coordination polymers of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies (2015) *Journal of Molecular Structure*, 1092, pp. 34-43. [10.1016/j.molstruc.2015.02.048](#)
31. Dash, S.P., Panda, A.K., Pasayat, S., Dinda, R., Biswas, A., Tiekink, E.R.T., Mukhopadhyay, S., Bhutia, S.K., Kaminsky, W., Sinn, E. Oxidovanadium(v) complexes of aroylhydrazones incorporating heterocycles: synthesis, characterization and study of DNA binding, photo-induced DNA cleavage and cytotoxic activities (2015) *RSC Advances*, 5 (64), pp. 51852-51867. [10.1039/c4ra14369h](#)
32. Yeo, C.I., Halim, S.N.A., Ng, S.W., Tan, S.L., Zukerman-Schpector, J., Ferreira, M.A.B., Tiekink, E.R.T. Investigation of putative arene-C-H $\cdots\pi$ (quasi-chelate ring) interactions in copper(I) crystal structures (2014) *Chemical Communications*, 50 (45), pp. 5984-5986. [10.1039/c4cc02040e](#)
33. Granifo, J., Gaviño, R., Freire, E., Baggio, R. A novel hybrid terpyridine-pyrimidine ligand and the supramolecular structures of two of its complexes with Zn(II) and acetylacetonato: The underlying role of non-covalent $\pi\cdots\pi$ contacts and C-H \cdots X(O, N, π) hydrogen bonds (2014) *Journal of Molecular Structure*, 1063 (1), pp. 102-108. [10.1016/j.molstruc.2014.01.053](#)
34. Verma, S.K., Kadu, R., Singh, V.K. A facile synthesis, crystallographic, spectral, thermal, and electrochemical investigations of neutral [Cu₂(Et₂dtc)₄] dimer (2014) *Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry*, 44 (3), pp. 441-448. [10.1080/15533174.2013.776596](#)
35. Das, M., Chattopadhyay, S. Designed synthesis of copper(II) and nickel(II) complexes with a tridentate N₂O donor Schiff base: Modulation of crystalline architectures through C-H $\cdots\pi$ and anion $\cdots\pi$ interactions (2013) *Journal of Molecular Structure*, 1051, pp. 250-258. [10.1016/j.molstruc.2013.07.045](#)
36. Siddiqui, K.A., Tiekink, E.R.T. A supramolecular synthon approach to aid the discovery of architectures sustained by C-H \cdots M hydrogen bonds (2013) *Chemical Communications*, 49 (76), pp. 8501-8503. [10.1039/c3cc44808h](#)
37. Caracelli, I., Zukerman-Schpector, J., Tiekink, E.R.T. Supra-molecular synthons based on gold $\cdots\pi$ (arene) interactions (2013) *Gold Bulletin*, 46 (2), pp. 81-89. [10.1007/s13404-013-0088-7](#)
38. Basu Baul, T.S., Kundu, S., Höpfl, H., Tiekink, E.R.T., Linden, A. Synthesis, crystal structures and optical properties of mercury(II) halide compounds with (E)-N-(pyridin-2-ylmethylidene)arylamines: Effect of ligand R-group upon structure (2013) *Polyhedron*, 55, pp. 270-282. [10.1016/j.poly.2013.03.025](#)
39. Câmpian, M.V., Haiduc, I., Tiekink, E.R.T. Supra-versus intra-molecular $\pi\cdots\pi$ interactions in M(S₂COCH₂Ph)₂(dafone) compounds: M = Zn and Cd; Dafone = 4,5-diazafluoren-9-one-N,N' (2013) *Zeitschrift für Kristallographie*, 228 (4), pp. 204-209. [10.1524/zkri.2013.1598](#)
40. Câmpian, M.V., Haiduc, I., Tiekink, E.R.T. Steric control over C=O \cdots C=O interactions in M(S₂COR)₂(dafone) compounds: M = Zn and Cd; R = Me, et and iPr; Dafone = 4,5-diazafluoren-9-one-N,N' (2013) *Zeitschrift für Kristallographie*, 228 (4), pp. 187-198. [10.1524/zkri.2013.1579](#)
41. Ray, S., Konar, S., Jana, A., Das, K., Butcher, R.J., Mondal, T.K., Kar, S.K. Synthesis, crystal structure and DFT analysis of a phenoxo bridged Cu(II) complex and an azide and μ_3 -O mixed bridged trinuclear Cu(II) complex (2013) *Polyhedron*, 50 (1), pp. 51-58. [10.1016/j.poly.2012.09.061](#)
42. Basu Baul, T.S., Kundu, S., Mitra, S., Höpfl, H., Tiekink, E.R.T., Linden, A. The influence of counter ion and ligand methyl substitution on the solid-state structures and photophysical properties of mercury(ii)

- complexes with (E)-N-(pyridin-2-ylmethylidene)arylamines (2013) Dalton Transactions, 42 (5), pp. 1905-1920. [10.1039/c2dt32283h](#)
43. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/ π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) Journal of Inorganic Biochemistry, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](#)
 44. Daković, A., Kragović, M., Rottinghaus, G.E., Ledoux, D.R., Butkeraitis, P., Vojislavljević, D.Z., Zarić, S.D., Stamenić, L. Preparation and characterization of zinc-exchanged montmorillonite and its effectiveness as aflatoxin B 1 adsorbent (2012) Materials Chemistry and Physics, 137 (1), pp. 213-220. [10.1016/j.matchemphys.2012.09.010](#)
 45. Banerjee, I., Dolai, M., Jana, A.D., Das, K.K., Ali, M. σ -Aromaticity in dinuclear copper(ii) complexes: Novel interaction between perchlorate anion and σ -aromatic [Cu₂X₂] (X = N or O) core (2012) CrystEngComm, 14 (15), pp. 4972-4975. [10.1039/c2ce25265a](#)
 46. Zukerman-Schpector, J., Tiekink, E.R.T. Intermolecular C-H... π (Chelate) Interactions - Prevalence in the Crystal Structures of Metal 1,1-Dithiolates (2012) The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering, pp. 275-299. [10.1002/9781119945888.ch11](#)
 47. Janjić, G.V., Zarić, S.D. Noncovalent Interactions of π -Systems in Crystal Structures of Transition-Metal Complexes (2012) The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering, pp. 243-274. [10.1002/9781119945888.ch10](#)
 48. Nishio, M., Umezawa, Y., Suezawa, H., Tsuboyama, S. The CH/ π Hydrogen Bond: Implication in Crystal Engineering (2012) The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering, pp. 1-39. [10.1002/9781119945888.ch1](#)
 49. Ray, S., Konar, S., Jana, A., Jana, S., Patra, A., Chatterjee, S., Golen, J.A., Rheingold, A.L., Mandal, S.S., Kar, S.K. Three new pseudohalide bridged dinuclear Zn(II), Cd(II) complexes of pyrimidine derived Schiff base ligands: Synthesis, crystal structures and fluorescence studies (2012) Polyhedron, 33 (1), pp. 82-89. [10.1016/j.poly.2011.11.031](#)
 50. Granifo, J., Gaviño, R., Freire, E., Baggio, R. The new sulphur-containing ligand 4'-(4-methylthiophenyl)-3,2': 6',3''-terpyridine (L1) and the supramolecular structure of the dinuclear complex [Zn₂(μ -L1)(acac)₄] (acac = acetylacetonato): The key role of non-covalent S...O contacts and C-H...S hydrogen bonds (2011) Journal of Molecular Structure, 1006 (1-3), pp. 684-691. [10.1016/j.molstruc.2011.10.038](#)
 51. Tiekink, E.R.T., Zukerman-Schpector, J. Emerging supramolecular synthons: C-H... π (chelate) interactions in metal bis(1,1-dithiolates) (2011) Chemical Communications, 47 (23), pp. 6623-6625. [10.1039/c1cc11173f](#)
 52. Janjić, G., Petrović, P., Ninković, D., Veljković, D., Kapor, A., Zarić, S.D. Stacking interactions between pyridine fragments in crystal structures of terpyridyl complexes (2010) Studia Universitatis Babes-Bolyai Chemia, (3), pp. 165-176.
 53. Janjić, G., Andrić, J., Kapor, A., Bugarić, I.D., Zarić, S.D. Classification of stacking interaction geometries of terpyridyl square-planar complexes in crystal structures (2010) CrystEngComm, 12 (11), pp. 3773-3779. [10.1039/b917268h](#)
 54. Chattopadhyay, S., Bhar, K., Das, S., Satapathi, S., Fun, H.-K., Mitra, P., Ghosh, B.K. Synthesis, molecular and crystalline architectures, and properties of novel bis(bidentate) and bis(tridentate) Schiff base bridged dinuclear mercury(II)pseudohalides: Control of coordination numbers by varying denticities (2010) Polyhedron, 29 (6), pp. 1667-1675. [10.1016/j.poly.2010.02.010](#)
 55. Madura, I.D., Zachara, J., Leszczyńska, K., Kunicki, A.R. Crystal structure of dicyclopentadienylaluminum complex directed by weak C-H... π interactions (2010) Journal of Molecular Structure, 968 (1-3), pp. 93-98. [10.1016/j.molstruc.2010.01.029](#)
 56. Granifo, J., Toledo, D., Garland, M.T., Baggio, R. The relevance of the fluorine interactions in the supramolecular structure of a complex constructed from copper(II) hexafluoroacetylacetonate and the 4'-(3-pyridyl)-2,2':6',2''-terpyridine ligand. Novel C-F/ π synthons involving the π -system of the terpyridine

- moieties and those of the hexafluoroacetylacetonate chelate rings (2010) *Journal of Fluorine Chemistry*, 131 (4), pp. 510-516. [10.1016/j.jfluchem.2009.10.016](#)
57. Sarkar, B.N., Bhar, K., Chattopadhyay, S., Das, S., Mitra, P., Ghosh, B.K. Synthesis, structure and luminescence behaviour of heptacoordinated one-dimensional coordination polymers of the type $[\text{Cd}(\text{L})(\text{dca})]_n(\text{X})_n$ (L = a pentadentate Schiff base; dca = dicyanamide; $\text{X} = \text{ClO}_4^-$, PF_6^-) (2010) *Journal of Molecular Structure*, 963 (1), pp. 35-40. [10.1016/j.molstruc.2009.09.043](#)
 58. Sarkar, B.N., Bhar, K., Khan, S., Laskar, S., Ghosh, B.K. Molecular and crystalline architectures of a mononuclear nickel(II)azide compound containing an unsymmetrical bidentate Schiff base (2010) *Journal of the Indian Chemical Society*, 87 (9), pp. 1041-1045.
 59. Sarkar, B.N., Bhar, K., Kundu, S., Fun, H.-K., Ghosh, B.K. Synthesis, molecular and crystalline architectures, and properties of mononuclear cobalt(II)thiocyanates containing a symmetrical tailored diimine/an unsymmetrical bidentate Schiff base (2009) *Journal of Molecular Structure*, 936 (1-3), pp. 104-111. [10.1016/j.molstruc.2009.07.023](#)
 60. Shimazaki, Y., Takani, M., Yamauchi, O. Metal complexes of amino acids and amino acid side chain groups. Structures and properties (2009) *Dalton Transactions*, (38), pp. 7854-7869. [10.1039/b905871k](#)
 61. Janjić, G.V., Milčić, M.K., Zarić, S.D. Intramolecular MLOH/ π and MLNH/ π interactions in crystal structures of metal complexes (2009) *Chemical Papers*, 63 (3), pp. 298-305. [10.2478/s11696-009-0020-z](#)
 62. Howie, R.A., Tiekink, E.R.T., Wardell, J.L., Wardell, S.M.S.V. Complementary supramolecular aggregation via O-H...O Hydrogen-bonding and Hg...S Interactions in Bis[N,N'-di(2-hydroxyethyl)-dithiocarbamato-S,S']mercury(II): $\text{Hg}[\text{S}_2\text{CN}(\text{CH}_2\text{CH}_2\text{OH})_2]_2$ (2009) *Journal of Chemical Crystallography*, 39 (4), pp. 293-298. [10.1007/s10870-008-9473-0](#)
 63. Nishio, M., Umezawa, Y., Honda, K., Tsuboyama, S., Suezawa, H. CH/ π hydrogen bonds in organic and organometallic chemistry (2009) *CrystEngComm*, 11 (9), pp. 1757-1788. [10.1039/b902318f](#)
 64. Tiekink, E.R.T., Zukerman-Schpector, J. Gold... π aryl interactions as supramolecular synthons (2009) *CrystEngComm*, 11 (7), pp. 1176-1186. [10.1039/b901576k](#)
 65. Yanagisawa, S., Crowley, P.B., Firbank, S.J., Lawler, A.T., Hunter, D.M., McFarlane, W., Li, C., Kohzuma, T., Banfield, M.J., Dennison, C. π -interaction tuning of the active site properties of metalloproteins (2008) *Journal of the American Chemical Society*, 130 (46), pp. 15420-15428. [10.1021/ja8038135](#)
 66. Pramanik, K., Das, U., Adhikari, B., Chopra, D., Stoeckli-Evans, H. RhCl_3 -assisted C-H and C-S bond scissions: Isomeric self-association of organorhodium(III) thiolato complex. Synthesis, structure, and electrochemistry (2008) *Inorganic Chemistry*, 47 (2), pp. 429-438. [10.1021/ic7016006](#)
 67. Granifo, J., Vargas, M., Garland, M.T., Ibáñez, A., Gaviño, R., Baggio, R. The novel ligand 4'-phenyl-3,2':6',3''-terpyridine (L) and the supramolecular structure of the dinuclear complex $[\text{Zn}_2(\mu\text{-L})(\text{acac})_4] \cdot \text{H}_2\text{O}$ (acac = acetylacetonato) (2008) *Inorganic Chemistry Communications*, 11 (11), pp. 1388-1391. [10.1016/j.inoche.2008.09.009](#)
 68. Chakraborty, J., Thakurta, S., Samanta, B., Ray, A., Pilet, G., Batten, S.R., Jensen, P., Mitra, S. Synthesis, characterisation and crystal structures of three trinuclear cadmium(II) complexes with multidentate Schiff base ligands (2007) *Polyhedron*, 26 (17), pp. 5139-5149. [10.1016/j.poly.2007.07.038](#)
 69. Stojanović, S.D., Medaković, V.B., Predović, G., Beljanski, M., Zarić, S.D. XH/ π interactions with the π system of porphyrin ring in porphyrin-containing proteins (2007) *Journal of Biological Inorganic Chemistry*, 12 (7), pp. 1063-1071. [10.1007/s00775-007-0276-0](#)
 70. Milčić, M.K., Ostojić, B.D., Zarić, S.D. Are chelate rings aromatic? Calculations of magnetic properties of acetylacetonato and o-benzoquinonediimine chelate rings (2007) *Inorganic Chemistry*, 46 (17), pp. 7109-7114. [10.1021/ic062292w](#)
 71. Tiekink, E.R.T., Wardell, J.L., Wardell, S.M.S.V. Hydrogen-bonding interactions in the crystal structure of bis(N-propyl-N-(2-hydroxyethyl)dithiocarbamato-S,S')nickel(II): $\text{Ni}[\text{S}_2\text{CN}(\text{nPr})(\text{CH}_2\text{CH}_2\text{OH})_2]_2$ (2007) *Journal of Chemical Crystallography*, 37 (7), pp. 439-443. [10.1007/s10870-007-9189-6](#)

72. Ghosh, R., Rahaman, S.H., Rosair, G.M., Ghosh, B.K. Doubly bridged heptacoordinated cadmium(II) compounds containing a tetradentate Schiff base: Variance in molecular and crystalline architectures with pseudohalides (2007) *Inorganic Chemistry Communications*, 10 (1), pp. 61-65. [10.1016/j.inoche.2006.08.022](https://doi.org/10.1016/j.inoche.2006.08.022)
 73. Milčić, M.K., Medaković, V.B., Zarić, S.D. CH/ π interactions of π -system of acetylacetonato chelate ring: Comparison of CH/ π interactions of Ni(II)-acetylacetonato chelate and benzene rings (2006) *Inorganica Chimica Acta*, 359 (13), pp. 4427-4430. [10.1016/j.ica.2006.06.022](https://doi.org/10.1016/j.ica.2006.06.022)
 74. Tiekink, E.R.T. Molecular crystals by design? (2001) *Chemical Communications*, 50 (76), pp. 11079-11082. [10.1039/c4cc04972a](https://doi.org/10.1039/c4cc04972a)
22. Z. D. Tomić, D. N. Sredojević and S. D. Zarić, **Stacking interactions between chelate and phenyl ring in square-planar transition metal complexes**, *Crystal Growth & Design* 2006, 6, pp. 29-31.

Цитиран у:

1. Lakshmanan, P., Gayathri, E., Thirumaran, S., Ciattini, S. Synthesis, crystal structure, DFT and Hirshfeld surface analysis of Ni(II) complexes: Precursor for nickel sulfide nanoparticles (2023) *Journal of Molecular Structure*, 1273, art. no. 134306. [10.1016/j.molstruc.2022.134306](https://doi.org/10.1016/j.molstruc.2022.134306)
2. Sarkar, S., Ghosh, S.R., Brandão, P., Jana, A.D. Role of imidazole edge to edge supramolecular interaction in the crystal packing of Cu(II)(SCN⁻)₂(imidazole)₂ complex: A novel variety of supramolecular interaction revealed by CCDC database analysis and explored through DFT computational studies (2021) *Journal of Molecular Structure*, 1227, art. no. 129513. [10.1016/j.molstruc.2020.129513](https://doi.org/10.1016/j.molstruc.2020.129513)
3. Tan, S.L., Lee, S.M., Lo, K.M., Otero-De-La-Roza, A., Tiekink, E.R.T. Experimental and computational evidence for a stabilising C-Cl(lone-pair)⋯ π (chelate-ring) interaction (2021) *CrystEngComm*, 23 (1), pp. 119-130. [10.1039/d0ce01478h](https://doi.org/10.1039/d0ce01478h)
4. Maity, S., Ghosh, T.K., Gomila, R.M., Frontera, A., Ghosh, A. Recurrent π (arene)⋯ π (chelate ring) motifs in four trinuclear CuII2MII(M = Cd/Zn) complexes derived from an unsymmetrical N₂O₂ donor ligand: Structural and theoretical investigations (2020) *CrystEngComm*, 22 (44), pp. 7673-7683. [10.1039/d0ce01219j](https://doi.org/10.1039/d0ce01219j)
5. Basak, T., Frontera, A., Chattopadhyay, S. A theoretical insight into non-covalent supramolecular interactions in the solid state structures of two octahedral iron(iii) complexes (2020) *CrystEngComm*, 22 (35), pp. 5731-5742. [10.1039/d0ce00955e](https://doi.org/10.1039/d0ce00955e)
6. Arora, S., Talwar, D., Chetal, M., Yadav, A., Kaur, P., Goyal, S., Sahoo, S.C., Sharma, R. Synthesis, crystal structure, antibacterial and cytotoxic aspects of Co(III) complex: [Co(bpy)₂CO₃] (PNP)·4H₂O (2020) *Journal of Molecular Structure*, 1216, art. no. 128312. [10.1016/j.molstruc.2020.128312](https://doi.org/10.1016/j.molstruc.2020.128312)
7. Jebastin Andrews, S.G., Benita Jeba Silviya, S., Bhuvanesh, N.S.P., Janet Sylvia Jaba Rose, J., Winfred Jebaraj, J., Balakrishnan, C. Crystal structure and evaluating C[sbnd]H⋯ π (aryl/chelate) interactions in bis(2-[(2-hydroxyethyl)imino]-methyl)-4,6-diiodophenolato)-palladium(II) Schiff base complex derived from (E)-2-(((2-hydroxyethyl)imino)methyl)-4,6-diiodophenol (2019) *Inorganica Chimica Acta*, 498, art. no. 119118. [10.1016/j.ica.2019.119118](https://doi.org/10.1016/j.ica.2019.119118)
8. Ahmed, F., Ghosh, S.R., Halder, S., Guin, S., Alam, S.M., Ray, P.P., Jana, A.D., Mir, M.H. Metal-ligand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device (2019) *New Journal of Chemistry*, 43 (6), pp. 2710-2717. [10.1039/C8NJ05526B](https://doi.org/10.1039/C8NJ05526B)
9. Blagojević Filipović, J.P., Hall, M.B., Zarić, S.D. Stacking interaction potential energy surfaces of square-planar metal complexes containing chelate rings (2019) *Advances in Inorganic Chemistry*, 73, pp. 159-189. [10.1016/bs.adioch.2018.11.002](https://doi.org/10.1016/bs.adioch.2018.11.002)
10. Malenov, D.P., Veljković, D.Z., Hall, M.B., Brothers, E.N., Zarić, S.D. Influence of chelate ring type on chelate-chelate and chelate-aryl stacking: The case of nickel bis(dithiolene) (2019) *Physical Chemistry Chemical Physics*, 21 (3), pp. 1198-1206. [10.1039/c8cp06312e](https://doi.org/10.1039/c8cp06312e)

11. Mahmoudi, G., Khandar, A.A., Afkhami, F.A., Mirosław, B., Gurbanov, A.V., Zubkov, F.I., Kennedy, A., Franconetti, A., Frontera, A. Modulation of coordination in pincer-type isonicotinohydrazone Schiff base ligands by proton transfer (2019) *CrystEngComm*, 21 (1), pp. 108-117. [10.1039/c8ce01580e](https://doi.org/10.1039/c8ce01580e)
12. Malenov, D.P., Hall, M.B., Zarić, S.D. Influence of metal ion on chelate–aryl stacking interactions (2018) *International Journal of Quantum Chemistry*, 118 (16), art. no. e25629. [10.1002/qua.25629](https://doi.org/10.1002/qua.25629)
13. Milovanović, M.M., Andrić, J.M., Medaković, V.B., Djukic, J.-P., Zarić, S.D. Investigation of interactions in Lewis pairs between phosphines and boranes by analyzing crystal structures from the Cambridge Structural Database (2018) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 74 (3), pp. 255-263. [10.1107/S2052520618003736](https://doi.org/10.1107/S2052520618003736)
14. Mahapatra, P., Bauzá, A., Frontera, A., Drew, M.G.B., Ghosh, A. Syntheses of four new asymmetric Schiff bases and their Cu(II) complexes: Theoretical calculations to rationalize the packing of molecules in the crystals (2018) *Inorganica Chimica Acta*, 477, pp. 89-101. [10.1016/j.ica.2018.01.035](https://doi.org/10.1016/j.ica.2018.01.035)
15. Dutta, B., Pratik, S.M., Jana, S., Sinha, C., Datta, A., Mir, M.H. Novel Br $\cdots\pi$ (Chelate) Interaction in a 1D Coordination Polymer Revealing Aromaticity (2018) *ChemistrySelect*, 3 (16), pp. 4289-4291. [10.1002/slct.201800738](https://doi.org/10.1002/slct.201800738)
16. Maity, T., Mandal, H., Bauzá, A., Samanta, B.C., Frontera, A., Seth, S.K. Quantifying conventional C-H $\cdots\pi$ (aryl) and unconventional C-H $\cdots\pi$ (chelate) interactions in dinuclear Cu(ii) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study (2018) *New Journal of Chemistry*, 42 (12), pp. 10202-10213. [10.1039/c8nj00747k](https://doi.org/10.1039/c8nj00747k)
17. Malenov, D.P., Zarić, S.D. Chelated metal ions modulate the strength and geometry of stacking interactions: Energies and potential energy surfaces for chelate-chelate stacking (2018) *Physical Chemistry Chemical Physics*, 20 (20), pp. 14053-14060. [10.1039/c7cp06262a](https://doi.org/10.1039/c7cp06262a)
18. Mahmoudi, G., Zaręba, J.K., Bauzá, A., Kubicki, M., Bartyzel, A., Keramidas, A.D., Butusov, L., Mirosław, B., Frontera, A. Recurrent supramolecular motifs in discrete complexes and coordination polymers based on mercury halides: Prevalence of chelate ring stacking and substituent effects (2018) *CrystEngComm*, 20 (8), pp. 1065-1076. [10.1039/c7ce02166f](https://doi.org/10.1039/c7ce02166f)
19. Tiekink, E.R.T. Supramolecular assembly based on “emerging” intermolecular interactions of particular interest to coordination chemists (2017) *Coordination Chemistry Reviews*, 345, pp. 209-228. [10.1016/j.ccr.2017.01.009](https://doi.org/10.1016/j.ccr.2017.01.009)
20. Malenov, D.P., Janjić, G.V., Medaković, V.B., Hall, M.B., Zarić, S.D. Noncovalent bonding: Stacking interactions of chelate rings of transition metal complexes (2017) *Coordination Chemistry Reviews*, 345, pp. 318-341. [10.1016/j.ccr.2016.12.020](https://doi.org/10.1016/j.ccr.2016.12.020)
21. Jana, S., Khan, S., Bauzá, A., Frontera, A., Chattopadhyay, S. The crucial role of chelate-chelate stacking interactions in the crystal structure of a square planar copper(II) complex (2017) *Journal of Molecular Structure*, 1127, pp. 355-360. [10.1016/j.molstruc.2016.07.062](https://doi.org/10.1016/j.molstruc.2016.07.062)
22. Marcos, I., Ojea, V., Vázquez-García, D., Fernández, J.J., Fernández, A., López-Torres, M., Lado, J., Vila, J.M. Preparation and characterization of terdentate [C,N,N] acetophenone and acetylpyridine hydrazone platinacycles: A DFT insight into the reaction mechanism (2017) *Dalton Transactions*, 46 (48), pp. 16845-16860. [10.1039/c7dt03418k](https://doi.org/10.1039/c7dt03418k)
23. Singh, Y., Patel, R.N., Singh, Y.P., Patel, A.K., Patel, N., Singh, R., Butcher, R.J., Jasinski, J.P., Colacio, E., Palacios, M.A. Unprecedented tetranuclear complexes with "weighing balance shaped" topology: Single crystal structures, unusual EPR spectra, magnetic properties and antioxidant activity (2017) *Dalton Transactions*, 46 (35), pp. 11860-11874. [10.1039/c7dt02595e](https://doi.org/10.1039/c7dt02595e)
24. Tan, M.Y., Crouse, K.A., Ravoo, T.B.S.A., Jotani, M.M., Tiekink, E.R.T. Bis(N'-{(E)-[(2E)-1,3-diphenylprop-2-en-1-ylidene]amino}-N-ethylcarbamimidothioato- κ^2 N',S)zinc(II): Crystal structure and Hirshfeld surface analysis Tan Ming Yueh (2017) *Acta Crystallographica Section E: Crystallographic Communications*, 73, pp. 1001-1008. [10.1107/S2056989017008064](https://doi.org/10.1107/S2056989017008064)
25. Roy, S., Drew, M.G.B., Bauzá, A., Frontera, A., Chattopadhyay, S. Estimation of conventional C-H $\cdots\pi$ (arene), unconventional C-H $\cdots\pi$ (chelate) and C-H $\cdots\pi$ (thiocyanate) interactions in hetero-nuclear

- nickel(II)-cadmium(II) complexes with a compartmental Schiff base (2017) Dalton Transactions, 46 (16), pp. 5384-5397. [10.1039/c6dt04906k](https://doi.org/10.1039/c6dt04906k)
26. Afkhami, F.A., Khandar, A.A., Mahmoudi, G., Maniukiewicz, W., Gurbanov, A.V., Zubkov, F.I., Şahin, O., Yesilel, O.Z., Frontera, A. Chelate ring stacking interactions in the supramolecular assemblies of Zn(ii) and Cd(ii) coordination compounds: a combined experimental and theoretical study (2017) CrystEngComm, 19 (10), pp. 1389-1399. [10.1039/c6ce02666d](https://doi.org/10.1039/c6ce02666d)
 27. Blagojević, J.P., Veljković, D., Zarić, S.D. Stacking interactions between hydrogen-bridged and aromatic rings: study of crystal structures and quantum chemical calculations (2017) CrystEngComm, 19 (1), pp. 40-46. [10.1039/c6ce02045c](https://doi.org/10.1039/c6ce02045c)
 28. Malenov, D.P., Dragelj, J.L., Janjić, G.V., Zarić, S.D. Coordinating benzenes stack stronger than noncoordinating benzenes, even at large horizontal displacements (2016) Crystal Growth and Design, 16 (8), pp. 4169-4172. [10.1021/acs.cgd.5b01514](https://doi.org/10.1021/acs.cgd.5b01514)
 29. Blagojević, J.P., Janjić, G.V., Zarić, S.D. Very strong parallel interactions between two saturated acyclic groups closed with intramolecular hydrogen bonds forming hydrogen-bridged rings (2016) Crystals, 6 (4), art. no. 34. [10.3390/cryst6040034](https://doi.org/10.3390/cryst6040034)
 30. Bhattacharya, S., Roy, S., Harms, K., Bauza, A., Frontera, A., Chattopadhyay, S. Importance of chelate-chelate stacking interactions in crystal structures of square pyramidal copper(II) complexes with two distinct chelating bidentate ligands (2016) Inorganica Chimica Acta, 442, pp. 16-23. [10.1016/j.ica.2015.11.002](https://doi.org/10.1016/j.ica.2015.11.002)
 31. Mahmoudi, G., Castiñeiras, A., Garczarek, P., Bauzá, A., Rheingold, A.L., Kinzhybalov, V., Frontera, A. Synthesis, X-ray characterization, DFT calculations and Hirshfeld surface analysis of thiosemicarbazone complexes of Mn⁺ ions (n = 2, 3; M = Ni, Cd, Mn, Co and Cu) (2016) CrystEngComm, 18 (6), pp. 1009-1023. [10.1039/c5ce02371h](https://doi.org/10.1039/c5ce02371h)
 32. Mahapatra, T.S., Bauzá, A., Dutta, D., Mishra, S., Frontera, A., Ray, D. Carboxylate Coordination Assisted Aggregation for Quasi-Tetrahedral and Partial-Dicubane [Cu₄] Coordination Clusters (2016) ChemistrySelect, 1 (1), pp. 64-75. [10.1002/slct.201600006](https://doi.org/10.1002/slct.201600006)
 33. Mahmoudi, G., Bauzá, A., Gurbanov, A.V., Zubkov, F.I., Maniukiewicz, W., Rodríguez-Diéguez, A., López-Torres, E., Frontera, A. The role of unconventional stacking interactions in the supramolecular assemblies of Hg(ii) coordination compounds (2016) CrystEngComm, 18 (47), pp. 9056-9066. [10.1039/c6ce02073a](https://doi.org/10.1039/c6ce02073a)
 34. Zukerman-Schpector, J., Yeo, C.I., Tiekink, E.R.T. Supramolecular architectures sustained by arene-C-H... π (quasi-chelate ring) interactions in the crystal structures of copper(I) complexes (2016) Zeitschrift für Kristallographie - Crystalline Materials, 231 (1), pp. 55-64. [10.1515/zkri-2015-1868](https://doi.org/10.1515/zkri-2015-1868)
 35. Mirzaei, M., Eshtiagh-Hosseini, H., Shamsipur, M., Saeedi, M., Ardalani, M., Bauzá, A., Mague, J.T., Frontera, A., Habibi, M. Importance of polarization assisted/resonance assisted hydrogen bonding interactions and unconventional interactions in crystal formations of five new complexes bearing chelidamic acid through a proton transfer mechanism (2015) RSC Advances, 5 (89), pp. 72923-72936. [10.1039/c5ra09526c](https://doi.org/10.1039/c5ra09526c)
 36. Malenov, D.P., Ninkovic, D.B., Zarić, S.D. Stacking of metal chelates with benzene: Can dispersion-corrected DFT be used to calculate organic-inorganic stacking? (2015) ChemPhysChem, 16 (4), pp. 761-768. [10.1002/cphc.201402589](https://doi.org/10.1002/cphc.201402589)
 37. Zarić, S.D., Malenov, D.P., Ninković, D.B. Strong stacking between organic and organometallic molecules as the key for material design (2015) Proceedings of the TMS Middle East - Mediterranean Materials Congress on Energy and Infrastructure Systems, MEMA 2015, pp. 409-413. [10.1002/9781119090427.ch43](https://doi.org/10.1002/9781119090427.ch43)
 38. Žilić, D., Rakvin, B., Milić, D., Pajić, D., Ćilović, I., Cametti, M., Džolić, Z. Crystal structures and magnetic properties of a set of dihalo-bridged oxalamidato copper(ii) dimers (2014) Dalton Transactions, 43 (31), pp. 11877-11887. [10.1039/c4dt00925h](https://doi.org/10.1039/c4dt00925h)

39. Petrović, P.V., Janjić, G.V., Zarić, S.D. Stacking interactions between square-planar metal complexes with 2,2'-bipyridine ligands. analysis of crystal structures and quantum chemical calculations (2014) *Crystal Growth and Design*, 14 (8), pp. 3880-3889. [10.1021/cg500447h](https://doi.org/10.1021/cg500447h)
40. Yeo, C.I., Halim, S.N.A., Ng, S.W., Tan, S.L., Zukerman-Schpector, J., Ferreira, M.A.B., Tiekink, E.R.T. Investigation of putative arene-C-H... π (quasi-chelate ring) interactions in copper(I) crystal structures (2014) *Chemical Communications*, 50 (45), pp. 5984-5986. [10.1039/c4cc02040e](https://doi.org/10.1039/c4cc02040e)
41. Basu Baul, T.S., Kundu, S., Höpfl, H., Tiekink, E.R.T., Linden, A. Synthesis, structures, and spectroscopic properties of Hg(II) complexes of bidentate NN and tridentate NNO Schiff-base ligands (2014) *Journal of Coordination Chemistry*, 67 (6), pp. 1061-1078. [10.1080/00958972.2014.901508](https://doi.org/10.1080/00958972.2014.901508)
42. Malenov, D.P., Zarić, S.D. Novel parallel stacking interactions of aromatic molecules (2014) *Quantum Nanosystems: Structure, Properties, and Interactions*, pp. 353-381. [10.1201/b17412](https://doi.org/10.1201/b17412)
43. Maiti, M., Sadhukhan, D., Thakurta, S., Zangrando, E., Pilet, G., Signorella, S., Bellú, S., Mitra, S. Catalytic efficacy of copper(II) and cobalt(III) Schiff base complexes in alkene epoxidation (2014) *Bulletin of the Chemical Society of Japan*, 87 (6), pp. 724-732. [10.1246/bcsj.20130334](https://doi.org/10.1246/bcsj.20130334)
44. Zhou, J. Stacking interactions of nickel bis(dithiolene) with benzene (2014) *Chemical Physics Letters*, 591, pp. 29-31. [10.1016/j.cplett.2013.10.088](https://doi.org/10.1016/j.cplett.2013.10.088)
45. Dragelj, J.L., Janjić, G.V., Veljković, D.Z., Zarić, S.D. Crystallographic and ab initio study of pyridine CH-O interactions: Linearity of the interactions and influence of pyridine classical hydrogen bonds (2013) *CrystEngComm*, 15 (48), pp. 10481-10489. [10.1039/c3ce40759d](https://doi.org/10.1039/c3ce40759d)
46. Janjić, G.V., Ninković, D.B., Zarić, S.D. Influence of supramolecular structures in crystals on parallel stacking interactions between pyridine molecules (2013) *Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials*, 69 (4), pp. 389-394. [10.1107/S2052519213013961](https://doi.org/10.1107/S2052519213013961)
47. Basu Baul, T.S., Kundu, S., Höpfl, H., Tiekink, E.R.T., Linden, A. Synthesis, crystal structures and optical properties of mercury(II) halide compounds with (E)-N-(pyridin-2-ylmethylidene)arylamines: Effect of ligand R-group upon structure (2013) *Polyhedron*, 55, pp. 270-282. [10.1016/j.poly.2013.03.025](https://doi.org/10.1016/j.poly.2013.03.025)
48. Basu Baul, T.S., Kundu, S., Mitra, S., Höpfl, H., Tiekink, E.R.T., Linden, A. The influence of counter ion and ligand methyl substitution on the solid-state structures and photophysical properties of mercury(II) complexes with (E)-N-(pyridin-2-ylmethylidene)arylamines (2013) *Dalton Transactions*, 42 (5), pp. 1905-1920. [10.1039/c2dt32283h](https://doi.org/10.1039/c2dt32283h)
49. Hosseini-Monfared, H., Pousaneh, E., Sadighian, S., Ng, S.W., Tiekink, E.R.T. Syntheses, structures, and catalytic activity of copper(II)-aroylhydrazone complexes (2013) *Zeitschrift für Anorganische und Allgemeine Chemie*, 639 (2), pp. 435-442. [10.1002/zaac.201200395](https://doi.org/10.1002/zaac.201200395)
50. Medaković, V.B., Bogdanović, G.A., Milčić, M.K., Janjić, G.V., Zarić, S.D. CH/ π interactions in metal-porphyrin complexes with pyrrole and chelate rings as hydrogen acceptors (2012) *Journal of Inorganic Biochemistry*, 117, pp. 157-163. [10.1016/j.jinorgbio.2012.09.002](https://doi.org/10.1016/j.jinorgbio.2012.09.002)
51. Banerjee, I., Dolai, M., Jana, A.D., Das, K.K., Ali, M. σ -Aromaticity in dinuclear copper(II) complexes: Novel interaction between perchlorate anion and σ -aromatic [Cu₂X₂] (X = N or O) core (2012) *CrystEngComm*, 14 (15), pp. 4972-4975. [10.1039/c2ce25265a](https://doi.org/10.1039/c2ce25265a)
52. Martínez-Calvo, M., Pedrido, R., González-Noya, A.M., Cwiklinska, M., Zaragoza, G., Bermejo, M.R. Chains or grids of cadmium(II) helicates? (2012) *CrystEngComm*, 14 (13), pp. 4270-4273. [10.1039/c2ce25551k](https://doi.org/10.1039/c2ce25551k)
53. Zukerman-Schpector, J., Tiekink, E.R.T. Intermolecular C-H... π (Chelate) Interactions - Prevalence in the Crystal Structures of Metal 1,1-Dithiolates (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 275-299. [10.1002/9781119945888.ch11](https://doi.org/10.1002/9781119945888.ch11)
54. Janjić, G.V., Zarić, S.D. Noncovalent Interactions of π -Systems in Crystal Structures of Transition-Metal Complexes (2012) *The Importance of Pi-Interactions in Crystal Engineering: Frontiers in Crystal Engineering*, pp. 243-274. [10.1002/9781119945888.ch10](https://doi.org/10.1002/9781119945888.ch10)

55. Nishio, M., Umezawa, Y., Suezawa, H., Tsuboyama, S. The CH/ π Hydrogen Bond: Implication in Crystal Engineering (2012) The Importance of π -Interactions in Crystal Engineering: Frontiers in Crystal Engineering, pp. 1-39. [10.1002/9781119945888.ch1](#)
56. Ninković, D.B., Janjić, G.V., Zarić, S.D. Crystallographic and ab initio study of pyridine stacking interactions. Local nature of hydrogen bond effect in stacking interactions (2012) Crystal Growth and Design, 12 (3), pp. 1060-1063. [10.1021/cg201389y](#)
57. Zukerman-Schpector, J., Haiduc, I., Tiekink, E.R.T. Supramolecular Self-assembly of Transition Metal Carbonyl Molecules Through M-CO(Lone Pair)... π (Arene) Interactions (2012) Advances in Organometallic Chemistry, 60, pp. 49-92. [10.1016/B978-0-12-396970-5.00002-5](#)
58. Veljković, D.Z., Janjić, G.V., Zarić, S.D. Are C-H...O interactions linear? the case of aromatic CH donors (2011) CrystEngComm, 13 (15), pp. 5005-5010. [10.1039/c1ce05065f](#)
59. Janjić, G.V., Petrović, P.V., Ninković, D.B., Zarić, S.D. Geometries of stacking interactions between phenanthroline ligands in crystal structures of square-planar metal complexes (2011) Journal of Molecular Modeling, 17 (8), pp. 2083-2092. [10.1007/s00894-010-0905-3](#)
60. Janjić, G.V., Veljković, D.Z., Zarić, S.D. Water/aromatic parallel alignment interactions. Significant interactions at large horizontal displacements (2011) Crystal Growth and Design, 11 (7), pp. 2680-2683. [10.1021/cg101208q](#)
61. Tiekink, E.R.T., Zukerman-Schpector, J. Emerging supramolecular synthons: C-H... π (chelate) interactions in metal bis(1,1-dithiolates) (2011) Chemical Communications, 47 (23), pp. 6623-6625. [10.1039/c1cc11173f](#)
62. Janjić, G., Petrović, P., Ninković, D., Veljković, D., Kapor, A., Zarić, S.D. Stacking interactions between pyridine fragments in crystal structures of terpyridyl complexes (2010) Studia Universitatis Babes-Bolyai Chemia, (3), pp. 165-176.
63. Janjić, G., Andrić, J., Kapor, A., Bugarić, I.D., Zarić, S.D. Classification of stacking interaction geometries of terpyridyl square-planar complexes in crystal structures (2010) CrystEngComm, 12 (11), pp. 3773-3779. [10.1039/b917268h](#)
64. Ming-Ling, S., Pei-Xiu, Y., Zhao-Ji, L., Xin-Yi, C., Jian-Kai, C., Ye-Yan, Q., Yuan-Gen, Y. A three-dimensional supramolecular complex {[co(h2btcc)(2, 2'-bipy)(h2o)3]-h2o}_n assembled via hydrogen bonding and π - π stacking interactions (2010) Jiegou Huaxue, 29 (5), pp. 726-731.
65. Janjić, G.V., Milčić, M.K., Zarić, S.D. Intramolecular MLOH/ π and MLNH/ π interactions in crystal structures of metal complexes (2009) Chemical Papers, 63 (3), pp. 298-305. [10.2478/s11696-009-0020-z](#)
66. Mosae Selvakumar, P., Suresh, E., Subramanian, P.S. Single stranded helical supramolecular architecture with a left handed helical water chain in ternary copper(II) tryptophan/diamine complexes (2009) Polyhedron, 28 (2), pp. 245-252. [10.1016/j.poly.2008.10.072](#)
67. Anzellotti, A.I., Bayse, C.A., Farrell, N.P. Effects of nucleobase metalation on frontier molecular orbitals: Potential implications for π -stacking interactions with tryptophan (2008) Inorganic Chemistry, 47 (22), pp. 10425-10431. [10.1021/ic801004a](#)
68. Mastropietro, T.F., Armentano, D., Grisolia, E., Zanchini, C., Lloret, F., Julve, M., De Munno, G. Guanine-containing copper(ii) complexes: Synthesis, X-ray structures and magnetic properties (2008) Dalton Transactions, 8 (4), pp. 514-520. [10.1039/b713960h](#)
69. Ostojić, B.D., Janjić, G.V., Zarić, S.D. Parallel alignment of water and aryl rings - Crystallographic and theoretical evidence for the interaction (2008) Chemical Communications, (48), pp. 6546-6548. [10.1039/b812925h](#)
70. Stojanović, S.D., Medaković, V.B., Predović, G., Beljanski, M., Zarić, S.D. XH/ π interactions with the π system of porphyrin ring in porphyrin-containing proteins (2007) Journal of Biological Inorganic Chemistry, 12 (7), pp. 1063-1071. [10.1007/s00775-007-0276-0](#)
71. Milčić, M.K., Ostojić, B.D., Zarić, S.D. Are chelate rings aromatic? Calculations of magnetic properties of acetylacetonato and o-benzoquinonediimine chelate rings (2007) Inorganic Chemistry, 46 (17), pp. 7109-7114. [10.1021/ic062292w](#)

72. Pucci, D., Albertini, V., Bloise, R., Bellusci, A., Cataldi, A., Catapano, C.V., Ghedini, M., Crispini, A. Synthesis and anticancer activity of cyclopalladated complexes containing 4-hydroxy-acridine (2006) *Journal of Inorganic Biochemistry*, 100 (9), pp. 1575-1578. [10.1016/j.jinorgbio.2006.04.009](https://doi.org/10.1016/j.jinorgbio.2006.04.009)
73. Tomić, Z.D., Leovac, V.M., Jaćimović, Z.K., Giester, G., Zarić, S.D. Multi- π , π stacked interaction between planar chelate rings in the crystal structure of dichloro(2-hydroxy-1-naphthaldehyde-3-methylisothiosemicarbazonato)iron(III) hemiethanol solvate (2006) *Inorganic Chemistry Communications*, 9 (8), pp. 833-835. [10.1016/j.inoche.2006.04.030](https://doi.org/10.1016/j.inoche.2006.04.030)
74. Tiekink, E.R.T. Molecular crystals by design? (2001) *Chemical Communications*, 50 (76), pp. 11079-11082. [10.1039/c4cc04972a](https://doi.org/10.1039/c4cc04972a)