

ЦИТИРАНОСТ ОБЈАВЉЕНИХ РАДОВА

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Цитирани радови:

Ana Kalijadis, Nemanja Gavrilov, Bojan Jokić, Martina Gilić, **Aleksandar Krstić**, Igor Pašti, Biljana Babić, Composition, structure and potential energy application of nitrogen doped carbon cryogels, Materials Chemistry and Physics, 2020, vol. 239, 122120

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Број цитата 7, цитирани радови:

1. Marina M. Maletić, Ana M. Kalijadis, Vladimir, Lazović, Snežana Trifunović, Biljana M. Babić, Aleksandra Dapčević, Janez Kovač, Marija M. Vukčević, Influence of N doping on structural and photocatalytic properties of hydrothermally synthesized TiO₂/carbon composites, Journal of the Serbian Chemical Society, 2023, vol. 88 (2) pp. 183-197
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2. Yongming Li, Yunpeng Zhai, Xiaorui Yan, Changkun Xia, Jimin Xie, Xiang Li, Min Chen, Yuanguo Xu, Ni_{0.96}S/NiS/Ni₃S₂ coated three-dimensional graphene composite for high energy storage and capacitance retention supercapacitors, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, vol. 651, 129671
<https://doi.org/10.1016/j.colsurfa.2022.129671>
3. Ana Kalijadis, Marina Maletić, Anđelka Bjelajac, Biljana Babić, Tamara Minović Arsić, Marija Vukčević, Influence of boron doping on characteristics of glucose-based hydrothermal carbons, Journal of the Serbian Chemical Society, 2022, vol. 87 (6) pp. 749-760
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5. Zhou Yalan, Yan Wen, Luo Lu, Fan Mizi, Du Guanben, Zhao Weigang, Recent development of phenolic carbon aerogels: a review, Chemical Industry and Engineering Progress, 2022, vol. 04, pp.1970-1981
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6. B. Matović, Yu.E. Gorshkova, S.Yu. Kottsov, G.P. Kopitsa, S. Butulija, T. Minović Arsić, I. Cvijović-Alagić, Carbon cryogel preparation and characterization, *Diamond and Related Materials*, 2022, vol.121, 108727
<https://doi.org/10.1016/j.diamond.2021.108727>
7. Yunpeng Zhai, Wei Wei, Huihui Hu, Junjie Jing, Xiaomeng Lv, Yuanguo Xu, Jimin Xie, Reduced graphene oxide decorated $\text{CoSnO}_3@ \text{ZnSnO}_3$ with multi-component double-layered hollow nanoboxes for high energy storage and capacity retention asymmetric supercapacitors, *Journal of Alloys and Compounds*, 2021, vol. 857, 157536
<https://doi.org/10.1016/j.jallcom.2020.157536>

Marija Ječmenica Dučić, **Aleksandar Krstić**, Nikola Zdolšek, Danka Aćimović, Branislava Savić, Tanja Brdarić, Dragana Vasić Anićijević, Low-Cost Graphene-Based Composite Electrodes for Electrochemical Oxidation of Phenolic Dyes, *Crystals*, 2023, vol.13, No.1, pp 125

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Број цитата 1, цитиран у раду:

1. Ahsan, Ali, Jamil, Farrukh, Rashad, Moeen Ali, Hussain, Murid, Inayat, Abrar, Akhter, Parveen, Al-Muhtaseb, Ala'a H. Lin, Kun-Yi Andrew, Park, YoungKwon, Wastewater from the textile industry: Review of the technologies for wastewater treatment and reuse, *Korean Journal of Chemical Engineering*, 2023, vol 40 (9)
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Marija Kojić, Marija Mihajlović, Milena Marinović-Cincović, Jelena Petrović, Đurica Katnić, **Aleksandar Krstić**, Svetlana Butulija, Antonije Onjia, Calcium-pyro-hydrochar derived from the spent mushroom substrate as a functional sorbent of Pb^{2+} and Cd^{2+} from aqueous solutions, *Waste Management and Research*, 2022, vol. 40 (11)

<https://doi.org/10.1177/0734242X221093951>

Број цитата 2, цитиран у радовима:

1. V.H. Santos, G.E. do Nascimento, D.C. Silva Sales, J.H.L. dos Santos, J.M. Rodríguez-Díaz, M.M.M.B. Duarte, Preparation of adsorbents from agro-industrial wastes and their application in the removal of Cd^{2+} and Pb^{2+} ions from a binary mixture: Evaluation of ionic competition, *Chemical Engineering Research and Design*, 2022, vol. 184, pp.152-164
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2. Đurica B. Katnić, Slavica J. Porobić, Ivica Vujčić, Marija M. Kojić, Tamara Lazarević-Pašti, Vedran Milanković, Milena Marinović-Cincović, Dragana Z. Živojinović, Irradiated fig pomace pyrochar as a promising and sustainable sterilized sorbent for water pollutant removal, *Radiation Physics and Chemistry*, 2024, vol.214, 111277

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Simona Jacimović, Jelena Popovic-Djordjevic, Beka Saric, **Aleksandar Krstić**, Violeta Mickovski-Stefanović, Nebojša Đ. Pantelić, Antioxidant Activity and Multi-Elemental Analysis of Dark Chocolate, *Foods*, 2022, vol. 11 (10), 1445

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Број цитата 6, цитиран у радовима:

1. Jose Angel García-Merino, Beatriz de Lucas, Karen Herrera-Rocha, Diego Moreno-Pérez, Maria Gregoria Montalvo-Lominchar, Arantxa Fernández-Romero, Catalina Santiago, Margarita Pérez-Ruiz, Mar Larrosa, Flavanol-Rich Cocoa Supplementation Inhibits Mitochondrial Biogenesis Triggered by Exercise, *Antioxidants*, 2022, vol. 11(8), 1552
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2. Jasmina Mitrevski, Nebojša Đ. Pantelić, Margarita S. Dodevska, Jovana S. Kojić, Jelena J. Vulić, Snežana Zlatanović, Stanislava Gorjanović, Jovanka Laličić-Petronijević, Sonja Marjanović, Vesna V. Antić, Effect of Beetroot Powder Incorporation on Functional Properties and Shelf Life of Biscuits, *Foods*, 2023, 12 (2), 322,
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3. Radosław Kowalski, Marek Rosochacki, Jakub Wyrostek, Muhammad Torequl Islam, Evaluating the Quality of Raw Chocolate as an Alternative to Commercial Products, *Applied science*, 2023 13 (3), 1274
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5. Mohd Farhan, Asim Rizvi, Mohammad Aatif, Aamir Ahmad, Current Understanding of Flavonoids in Cancer Therapy and Prevention, *Metabolites*, 2023, 13 (4) 481
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Dunja Djukić, **Aleksandar Krstić**, Ksenija Jakovljević, Svetlana Butulija, Ljubica Andjelković, Vladimir Pavlović, Miljana Mirković, Brushite-Metakaolin Composite Geopolymer Material as an Effective Adsorbent for Lead Removal from Aqueous Solutions, Sustainability, 2022, vol.14, No. 7, pp. 4003

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Број цитата 2, цитиран у радовима:

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Jelena Marinković, Tatjana Marković, Biljana Nikolić, Ana Cirić, Dragana Mitic-Ćulafić, Stefana Dukanović, **Aleksandar Krstić**, Dusan Pavlica, Tamara Vlajić, Dejan Marković, Biocompatibility and Antibacterial Potential of the Cinnamomum camphora cineoliferum (L.) J. Presl. and Melaleuca ericifolia Sm. Essential Oils Against Facultative and Obligate Endodontic Anaerobes, Journal of Essential Oil Bearing Plants, 2022, vol.25, No. 1, pp 111-125

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Milena Pijović, Nebojša Manić, Dragana Vasić Anićijević, **Aleksandar Krstić**, Miodrag Mitrić, Tamara Matić, Bojan Janković, Simple and effective one-step production of high-quality mesoporous pyrolytic char from waste tires: Rhodamine B adsorption kinetics and density functional theory (DFT) study, Diamond and Related Materials, 2022, vol.121, 108768

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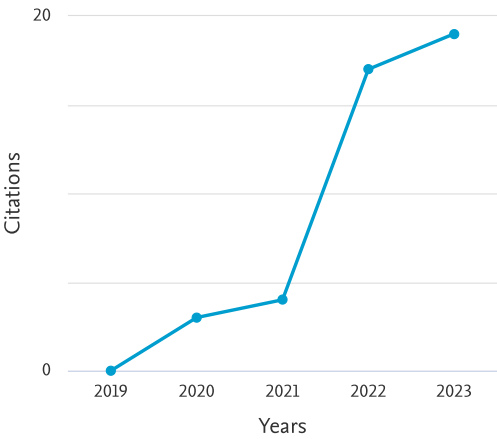
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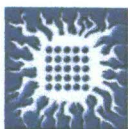
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VINČA INSTITUTE OF NUCLEAR SCIENCES

Address: Mike Alasa 12-14
11001 Belgrade, P.O.Box
522, Serbia

Phone: (+381 11) 3408-101
Director: (+381 11) 6454-945
Telefaxes: (+381 11) 3408-787
E-mail: office@vinca.rs

Mr. Adegboyega Ajani, Industrial Development Officer and Project Manager
Ms. Alessandra Bravin, Associate Procurement Officer

Mail to:
Procurement Services/OSS/CMO
Attention A.Bravin
Room D-2010
UNIDO, P.O Box 300
A-1400 Vienna, Austria

ИНСТИТУТ ЗА НУКЛЕАРНЕ НАУКЕ
"ВИНЧА"

Бр. 407-89-2/2018-850
08-10-2018 год
11001 БЕОГРАД, П.п. 522
Тел. (011) 3408101

UNIDO Project No.:100313

UNIDO Contract No. 3000063261

Contractor: Vinca Institute of Nuclear Sciences, Department of Physical Chemistry

PERSONNEL SUBSTITUTE REQUEST

Dear Sir/Madame,

We hereby request Your consent to make substitutes of personnel in the Vinca Institute project team, according to Section 2.03 of the UNIDO Contract No. 3000063261.

We propose these changes:

	Current team member	Project role	Proposed substitute	Project role
1	Dr Gvozden Tasic	Deputy Project Leader (Reporting)	Dr Vladimir Nikolic	Deputy Project Leader (Reporting)
2	Dr Tanja Brdaric	Analysis of soil contamination (Reporting)	Dr Milica Marceta Kaninski	Analysis of soil contamination (Reporting)
3	MSc Jelena Georgijevic	Soil Analysis	MSc Aleksandar Krstic	Soil Analysis

Dr Gvozden Tasic has accepted a role in education activities of the Vinca Institute in August 2018., and cannot align obligations with the UNIDO project.

Dr Tanja Brdaric has started her maternity leave in July 2018., and will not be present in the Vinca Institute until the end of UNIDO project.

MSc Jelena Georgijevic has started working on PhD thesis experiments in September 2018., and will not be present in the Vinca Institute until the end of UNIDO project.

We have chosen Dr Vladimir Nikolic, Dr Milica Marceta Kaninski and MSc Aleksandar Krstic according to their previous experience in projects in the field of environmental contamination/decontamination and protection. We are convinced that the proposed substitutes will not influence the quality of the work in this project.

In the attachment of this letter, You will find the CV's of the proposed substitutes.

Kind regards,



Dr Dubravka Milovanovic
Project Leader



Aleksandar Krstic



PERSONAL INFORMATION

Date and place of birth: 19. 06. 1991. Leskovac, Serbia

Adress: Tosin bunar 147, 11070 Novi Beograd, Serbia

Telephone number: 069/1991196

e-mail adress: aleksandarkrstic@live.com

EDUCATION

2015 – in progress **Faculty of chemistry (PhD), Doctoral academic studies, University of Belgrade, Belgrade, Serbia, Chair of analytical chemistry**

2014 – 2015 **Faculty of chemistry, University of Belgrade, Belgrade, Serbia, Chair of analytical chemistry, Title: Master of science in chemistry**

2010 - 2014 **Faculty of chemistry, University of Belgrade, Belgrade, Serbia, Chair of analytical chemistry, Title: Bachelor of science in chemistry**

WORK EXPERIENCE

- **May 2018 – in progress „VINČA“ Institute of Nuclear Sciences Department of Physical Chemistry, Vinca, Belgrade, Serbia, Research Trainee**
- **September 2017 – april 2018 „Institute MOL“ L.T.D. Stara Pazova, Head of laboratory**
 - The organization and coordination of jobs in laboratory
 - The application and determination of normative acts related to the work of the laboratory
 - Application of good laboratory practice
 - Proposing plans and programs of development labs and taking moduls for their implementation
 - Planing procurements of material resources: equipment, spare parts, chemicals, standards, reference materials
 - Preparation and verification of analysis report

- **May 2015 – april 2018, Institute MOL“ L.T.D, Stara Pazova, Analyst in laboratory**

Job type: Analysis of water (underground, surface, and wastewater), analysis of waste and soil, pharmaceutical waste, analysis of vitamins in animal feed, analysis of petroleum products, analysis of fertilizers, analysis of fuels, analysis of products for feeding bees

Analytical methods and technique:

- Gravimetry, volumetry, spectrophotometry
- Liquid Chromatography, HPLC UV/FLD/PDA (analysis of PAHs in water, soil and waste)
- Gas Chromatography, GC ECD/FID/MS (analysis of mineral oils, BTEX, PCBs in water, soli, and waste)
- Ionic Chromatography, determination of anion and cation in water and water extract of soli and waste
- TOC (analysis of total organic carbon in water and waste)
- Karl fisher titration (analysis of water content in organic and neorganic products)
- X ray spectrometry, handled XRF spectrometer, analysis of metals in plastics, steel products, brass, preciosus metals)
- Calorimetry
- Refractometry

Srpsko hemijsko društvo



Serbian Chemical Society

Klub mladih hemičara Srbije



Serbian Young Chemists' Club

51. savetovanje
Srpskog hemijskog društva
2. konferencija mladih hemičara Srbije

KNJIGA RADOVA

51st Meeting of
the Serbian Chemical Society
&
2nd Conference of the Young Chemists of Serbia

Proceedings

Nis, 5-7. juni 2014.

Nis, June 5-7, 2014

Uklanjanje smetnji koje potiču od jona gvožđa(III), "u liniji", pri određivanju bakra protočno injekcionom (FIA) metodom sa amperometrijskom detekcijom

Aleksandar Krstić, Snežana Mandić

Hemijski fakultet, Univerzitet u Beogradu, Studentski trg 12-16, Beograd, Srbija,

aleksandar.krstic@live.com

Određivanje bakra se zasniva na merenju signala cijanida na radnoj srebrnoj elektrodi, sa i bez prisustva bakra, na potencijalu 0,0 V vs. Ag/AgCl [1]. FIA sistem je opremljen sa dva ventila za ubrizgavanje, jedan se koristi za ubrizgavanje rastvora cijanida (reagensa), a drugi za ubrizgavanje uzorka (bakra). Kao nosač za cijanide je korišćen rastvor natrijum-hidroksida (0,02 mol/l), a za bakar je rastvor hlorovodonične kiseline (0,01 mol/l). U ovakvom FIA sistemu bakar gradi stabilne cijano komplekse. Sistem sadrži i gasno-difuzionu jedinicu kroz koju difunduje cijanovodonik. Ovo određivanje ometaju svi joni koji grade stabilne cijano komplekse i koji se, najčešće, uklanjaju prethodnom pripremom uzorka što produžava vreme analize. Integrisanjem kolone napunjene celulozom u FIA sistem, uticaj ometajućeg jona gvožđa je potpuno uklonjen. U radu je ispitivan uticaj različitih koncentracija gvožđa, kao i broj ubrizgavanja na stabilnost kolone.

On-line elimination of Fe(III) during determination of copper flow injection analysis (FIA) with amperometric detection

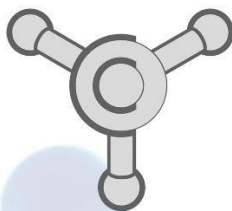
Aleksandar Krstić, Snežana Mandić

Faculty of Chemistry, University of Belgrade, Studentski trg 12-16, Belgrade, Serbia

Determination of copper was based on measuring of the cyanide signal, without and in the presence of copper on working silver electrode at 0,0 V vs Ag/AgCl [1]. FIA manifold was equipped with two injection valves, one for injection of cyanide solution (reagent) and another one for the sample injection (copper solution). The carrier for cyanide solution was sodium-hydroxide (0,02 mol/l), and the carrier for copper solution was hydrochloric acid (0,01 mol/l). In such system copper forms stable cyano complexes. The system is equipped with gas-diffusion unit which enables diffusion of hydrogen-cyanide. Copper determination in such system was interfered with ions which form stable cyano complexes, which were removed off-line, therefore increasing the analysis time. By integrating the column filled with cellulose interferences by iron were completely removed. The effect of concentration of iron (III) was investigated, as well as the number of injections on stability of the cotton filled column.

1. A. Lolić, T. Tripković, R. Baošić, S. Nikolić-Mandić, B. Stanimirović, *J. Serb. Chem. Soc.* **77**(11) (2012) 1641
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Serbian Young Chemists' Club



Serbian Chemical Society



Seventh Conference of the Young Chemists of Serbia

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Belgrade, 2nd November 2019



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Comparison of two cleanup methods of aliphatic hydrocarbons removal for the determination of PAHs in sludge

Aleksandar D. Krstić, Mina M. Seović, Marija V. Ječmenica Dučić,
Đurica B. Katnić

University of Belgrade, Institute of Nuclear Sciences Vinča, Belgrade, Serbia

Polycyclic aromatic hydrocarbons (PAHs) are classified as priority micropollutants by most environmental authorities around the world. They are produced during all types of incomplete combustion of organic matter. PAHs shows the characteristic POPs effects: persistence, bio-accumulation, potential for long-range environmental transportation.

The purpose of this work was comparison between different methods of purification of aliphatic hydrocarbons removal from high contaminated sludge samples (more than 20 wt.% content of aliphatic hydrocarbons) and analyze the PAHs by using liquid chromatography with PDA detection. In addition, this method was used to determine the concentration of 16 PAHs in the sludge from industrial plant and to evaluate the PAHs level, composition and potential toxicity in the sludge.

Analytes were extracted from sludge samples using solid-liquid extraction with n-hexane/acetone mixture. They were separated and fractionated on a florisil and silica columns for observation. Florisil was heated for 14h at 140°C, silica 16h at 160°C for activation [1,2]. Columns were filled with florisil/silica and anhydrous sodium sulphate immediately before use. They were washed with methylene chloride. The extract was loaded on the columns and eluted with n-hexane.

As a control, samples were spiked for a final concentration of 0.1 mg/kg. Results have shown that florisil recovery assay is extensively higher than those observed with silica. The outcome of this examination is that silica is not suitable for cleanup of PAHs because of its elevated adsorption affinity.

References

1. EPA method 3630C/3620C, Silica gel cleanup"/„Florisil cleanup”
2. EN 14039:2014 Characterization of waste-Determination of hydrocarbon content in the range of C10 to C40 by gas chromatography

Acknowledgments

This work was supported by the Ministry of Education and Science Republic of Serbia under the project number OI 172045

Наслов **BMC Chemistry: Thank you for your review on "The Olive Industry Liquid Waste from Trash to Metal Adsorbent For Wastewater Purification"**



Од BMC Chemistry <bmcchemistry@biomedcentral.com>

За <aleksandar.krstic@vin.bg.ac.rs>

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-
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Dear Dr Aleksandar Krstic,

Thank you for submitting your report to BMC Chemistry. We greatly value the time and effort you put into reviewing the manuscript.

We've attached a copy of the report for your reference. You can also use this email to verify your review activity with third party websites, such as Publons.

Thanks again for your review; we'll email you the decision on the manuscript as soon as it is made. Meanwhile, we hope that we can continue to benefit from your expertise in the future.

Kind regards,

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Универзитет у Београду
ПОЉОПРИВРЕДНИ ФАКУЛТЕТ
Број: 11/43
Датум: 25.03.2022. године
Београд - Земун

На основу члана 86. Закона о високом образовању („Службени гласник РС“ бр. 88/2017, 73/2018, 27/2018 – други закон, 67/2019, 6/2020 – други закони, 11/2021 – аутентично тумачење, 67/2021 и 67/2021 – други закон), а у складу са чланом 202. Закона о раду („Службени гласник РС“ бр. 24/2005, 61/2005, 54/2009, 32/2013, 75/2014, 13/2017 – одлука УС, 113/2017 и 95/2018 – аутентично тумачење) и одлуке о избору надлежне организационе јединице Факултета, закључује се

УГОВОР О АНГАЖОВАЊУ САРАДНИКА ВАН РАДНОГ ОДНОСА у школској 2021/2022. години

Уговор је закључен између:

1. Универзитета у Београду - ПОЉОПРИВРЕДНОГ ФАКУЛТЕТА, Београд - Земун, ул. Немањина бр. 6, МБ 7029845; ПИБ 100198802, рачун број 840-1872666-79 (у даљем тексту: Факултет), кога заступа декан проф. др Душан Живковић, с једне стране и

1. Александра Крстића, дипл. хемичара, Београд, Нови Београд. .

(у даљем тексту: Сарадник) с друге стране, како следи

Предмет уговора

Члан 1.

Овим уговором се регулишу међусобна права и обавезе између Факултета и сарадника за помоћ у настави на основним академским студијама првог степена из предмета Основи биохемије и Биохемија хране, у летњем семестру школске 2021/2022. године.

Обавезе сарадника

Члан 2.

Сарадник се обавезује да ће пружати услуге помоћи у настави (извођењу вежби) из предмета Основи биохемије и Биохемија хране, у летњем семестру школске 2021/2022. године, по студијском програму Факултета, а према распореду који је утврђен на Факултету и у сарадњи са предметним наставником Факултета.

Обавезе Факултета

Члан 3.

Факултет се обавезује да ће сарадника исплаћивати према члану 1. овог Уговора. Накнада се утврђује у нето износу од [] динара месечно. Накнада се обрачунава и исплаћује за период од 21.02.2022. године до 12.06.2022. године, месечно, а на основу одобреног захтева за исплату који подноси руководиоца студијског програма Факултета.

Исплата накнаде за ангажовање сарадника се врши уплатом на текући рачун сарадника.

Остале одредбе

Члан 4.

Овај уговор се закључује за летњи семестар школске 2021/2022. године.

Уговорне стране су сагласне да Факултет може отказати овај уговор пре истека времена на који је закључен, без навођења посебног разлога са отказним роком од 15 (петнаест) дана.

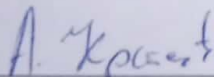
Члан 5.

Уговорне стране су сагласне да све спорове поводом овог Уговора решавају споразумно, а ако до споразума не дође, прихватају стварно надлежни суд у Београду.

Члан 6.

Овај уговор је сачињен у 5 (пет) истоветна примерака, од којих 4 (четири) за Факултет, а 1 (један) за сарадника.

САРАДНИК



Александар Крстић



Проф. др Душан Живковић

Доставити: сараднику, шефу Катедре за хемију и биохемију, Служби за финансијске и рачуноводствене послове, Служби за правне и кадровске послове и архиви (2).