

**СПИСАК ПУБЛИКАЦИЈА ОБЈАВЉЕНИХ ПОСЛЕ ПОКРЕТАЊА  
ПРОЦЕДУРЕ ЗА ИЗБОР У ЗВАЊЕ НАУЧНИ САРАДНИК**

**Радови објављени у врхунским међународном часописима изузетне вредности  
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### **Саопштење са међународног скупа штампано у целини (M33)**

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## **СПИСАК ПУБЛИКАЦИЈА ОБЈАВЉЕНИХ ПРЕ ПОКРЕТАЊА ПРОЦЕДУРЕ ЗА ИЗБОР У ЗВАЊЕ НАУЧНИ САРАДНИК**

### **Радови објављени у врхунском међународном часопису (M21)**

1. **Ivica Vujčić**, Slobodan Masic, Mina Medic, Bojana Milicevic, Miroslav Dramicanin, The influence of gamma irradiation on the color change of wool, linen, silk, and cotton fabrics used in cultural heritage artifacts, *Radiation Physics and Chemistry*, **156** (2019), 307-313. DOI: 10.1016/j.radphyschem.2018.12.001 (**IF=1.435**) (ISSN: 0969-806X)

### **Радови објављени у истакнутом међународном часопису (M22)**

1. **Ivica Vujčić**, Tamara Gavrilović, Milica Sekulić, Slobodan Mašić, Slaviša Putić, Jelena Papan, Miroslav D. Dramićanin, Gamma-radiation effects on luminescence properties of  $\text{Eu}^{3+}$  activated  $\text{LaPO}_4$  phosphor, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, **422** (2018), 85–90. DOI: 10.1016/j.nimb.2018.03.002 (**IF=1,323**) (ISSN: 0168-583X)
2. **Ivica Vujčić**, Estelle Glais, Katarina Vuković, Milica Sekulić, Slobodan Mašić, Corinne Chanéac, Miroslav D Dramićanin, Bruno Viana, Radiation effects, photoluminescence and radioluminescence of Eu doped  $(\text{Y}_{0.7}\text{Gd}_{0.3})_2\text{O}_3$  nanoparticles with various sizes, *Optical Materials*, **86** (2018), 582-589. DOI: 10.1016/j.optmat.2018.10.049 (**IF=2,320**) (ISSN: 0925-3467)

### **Радови објављени у часопису међународног значаја (M23)**

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2. **Ivica Vujčić**, Tamara Gavrilović, Milica Sekulić, Slobodan Mašić, Bojana Milićević, Miroslav D. Dramićanin, Vesna Đorđević, Radiation effects on luminescent and structural properties of  $\text{YPO}_4: \text{Pr}^{3+}$  nanophosphors, *Radiation Effects and Defects in Solids*, **173 (11-12)** (2018) 1054-1067. DOI: 10.1080/10420150.2018.1539722 (**IF=0,526**) (ISSN: 1042-0150)

**Рад у објављен у часопису међународног значаја верификованог посебном одлуком (M24)**

1. Jelena M. Petrović, Dragoljub. Ž. Bekrić, **Ivica. T. Vujčić**, Ivana D. Dimić, Slaviša S. Putić, Microstructural characterization of glass-epoxy composite subjected to tensile testing, *Acta Periodica Technologica* (2013), 151-162. DOI: 10.2298/APT1344151P (ISSN 1450-7188)
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**Саопштење са међународног скупа штампано у целини (M33)**

1. **Ivica Vujcic**, S. Masic, M. Medic, I. Vukoje, S. Putic, M. D. Dramicanin, Establishing gamma irradiation method of prunes conservation, *Eco-Ist'16 conference*, Vrnjacka banja, Serbia (2016), 533-537 (ISBN 978-86-6305-043-3)
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**Саопштење са међународног скупа штампано у изводу (M34)**

1. E.Glais, B. Viana, **I. Vujčić**, S. Mašić, M. Sekulić, K. Vuković, M. D. Dramićanin: UV, X and Gamma radiation effects on photoluminescence properties of Eu doped yttrium sesquioxide particles, *18th International Conference on Luminescence – ICL 2017*, João Pessoa, Paraíba, Brazil (2017), 249, (ISBN 978-85-63273-36-9)
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3. **Ivica Vujčić**, Milica Sekulić, Slobodan Mašić, Miroslav D. Dramićanin, Gamma radiation effects on structural and optical properties of Eu-doped  $(Y_{0.7}Gd_{0.3})_2O_3$  scintillators, *Sixth*



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#### **Саопштење са националног скупа штампано у изводу (M64)**

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#### **ЦИТИРАНОСТ РАДОВА**

- **Microstructural characterization of glass-epoxy composites subjected to tensile testing**

**Petrović, J.M., Bekrić, D.Ž., Vujčić, I.T., Dimić, I.D., Putić, S.S.**

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5. Optimization of additive manufacturing by vacuum infusion method | [Eklemeli imalat yöntemlerinde vakum infüzyon yolu ile üretim optimizasyonu], Karakuş, R., Tanık, Ç.M., 2023, Journal of the Faculty of Engineering and Architecture of Gazi University, 38(4), pp. 2451-2463
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7. Mathematical modeling of multilayered composite material to obtain in plane elastic constants Bhadane, G.S., Patil, S.B., 2023, *Materials Today: Proceedings*, 72, pp. 794-801
8. Performance Evaluation of Natural Composites Made from Banyan and Cotton Fibers for Sustainable Thermal Insulation Applications, Baladivakar, S., Starvin, M.S., Raj, J.B., 2023, *Journal of Natural Fibers*, 20(1), 2123881
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10. 3D Printing Technology and Materials for Automotive Application: A Mini-Review, Tuazon, B.J., Custodio, N.A.V., Basuel, R.B., Reyes, L.A.D., Dizon, J.R.C., 2022, *Key Engineering Materials*, 913 KEM, pp. 3-16
11. Nano and non-nano fillers in enhancing mechanical properties of epoxy resins: a brief review, Tee, Z.Y., Yeap, S.P., Hassan, C.S., Kiew, P.L., 2022, *Polymer-Plastics Technology and Materials*, 61(7), pp. 709-725
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13. Analysis of the effect of parameters on fracture toughness of hemp fiber reinforced hybrid composites using the anova method, Madhusudhana, H.K., Prasanna Kumar, M., Patil, A.Y., (...), Badruddin, I.A., Kamangar, S., 2021, *Polymers*, 13(17), 3013
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15. Properties of functionally gradient composites reinforced with waste natural fillers, Prasad, L., Singh, G., Yadav, A., Kumar, V., Kumar, A., 2019, *Acta Periodica Technologica*, 50, pp. 250-259

□ **The influence of gamma irradiation on the color change of wool, linen, silk, and cotton fabrics used in cultural heritage artifacts**

**Vujcic, I., Masic, S., Medic, M., Milicevic, B., Dramicanin, M.**

***Radiation Physics and Chemistry*, 2019, 156, pp. 307–313**

Број цитата (без аутоцитата): 12

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1. Effects of ionizing radiation decontamination on botanical collections in herbaria, Lima, L.M.P.R., Kodama, Y., Baitello, J.B., (...), de Souza Santos, P., Vasquez, P.A.S., 2023, *Radiation Physics and Chemistry*, 202, 110561
2. Sustainable Extraction of Colourant from Harmal Seeds (*Peganum harmala*) for Dyeing of Bio-Mordanted Wool Fabric, Adeel, S., Anjum, F., Zuber, M., (...), Amin, N., Ozomay, M., 2022, *Sustainability (Switzerland)*, 14(19), 12226

3. Cellulase Enzyme Based Wet-Pretreatment of Lotus Fabric to Improve Antimicrobial Finishing with *A. indica* Extract and Enhance Natural Dyeing: Sustainable Approach for Textile Finishing Vajpayee, M., Dave, H., Singh, M., Ledwani, L., 2022, ChemistrySelect, 7(25),e202200382
4. Sustainable isolation of licorice (*Glycyrrhiza glabra* L.)-based yellow natural colorant for dyeing of bio-mordanted cotton Adeel, S., Kiran, S., Abbas, M., (...), Hussaan, M., Amin, N. 2022 Environmental Science and Pollution Research, 29(21), pp. 31270-31277
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6. Physical methods for the modification of the natural fibers surfaces ( Book Chapter), Tanasă, F., Nechifor, M., Teacă, C.-A., Stanciu, M.-C., 2022, Surface Treatment Methods of Natural Fibres and their Effects on Biocomposites, pp. 125-146
7. Gamma radiation for sterilization of textile based materials for personal protective equipment, Silva, D., Rocha, R., Silva, C.J., (...), Alves, E., Serro, A.P., 2021, Polymer Degradation and Stability, 194,109750
8. The effect of gamma irradiation to eliminate fungal contamination on two model colors of Iranian paintings Sheikh, N., Babrud, R.B., Khatamifar, F., 2021, Radiation Physics and Chemistry, 189,109704
9. Eco-friendly dyeing of cotton fabric with waste tea leaves-based tannin natural dye, Adeel, S., Anjum, M.N., Ahmad, M.N., (...), Imran, M., Amin, N., 2021, Global Nest Journal, 23(3), pp. 365-369
10. Novel antibiofilm non-biocidal strategies ( Book Chapter), Cappitelli, F., Villa, F., 2021, Microorganisms in the Deterioration and Preservation of Cultural Heritage, pp. 117-136
11. The control of cultural heritage microbial deterioration, Cappitelli, F., Cattò, C., Villa, F., 2020, Microorganisms, 8(10),1542, pp. 1-20
12. 50 years of French experience in using gamma rays as a tool for cultural heritage remedial conservation Cortella, L., Albino, C., Tran, Q.-K., Froment, K., 2020, Radiation Physics and Chemistry, 171,108726

□ **Utilization of gamma and e-beam irradiation in the treatment of waste sludge from a drinking water treatment plant**

**Ranković, B., Sagatova, A., Vujčić, I., ...Pavićević, V., Kamberović**

***Radiation Physics and Chemistry, 2020, 177, 109174***

Број цитата (без аутоцитата): 9

Цитиран у:

1. Study on degradation of wastewater containing PAM catalyzed by nonequilibrium plasma and  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Xiaobing, W., Lu, W., Kai, L., Chenyang, Z., Fengwei, G., 2022, Journal of Water Process Engineering, 49,103065
2. Sludge-derived biochar: Physicochemical characteristics for environmental remediation, Mayilswamy, N. , Nighojkar, A. , Edirisinghe, M., 2023, Applied Physics Reviews, 10 (31), Article number 031308
3. Inactivation of biohazards in healthcare wastewater by E-Beam and Gamma irradiation: a comparative study, Jebri, S., Yahya, M., Rahmani, F., (...), Hamdi, M., Hmaied, F., 2022, Environmental Science and Pollution Research, 29(50), pp. 75575-75586
4. Advances in bioremediation of emerging contaminants from industrial wastewater by oxidoreductase enzymes, Sai Preethi, P., Hariharan, N.M., Vickram, S., (...), Chang, S.W., Kumar Awasthi, M., 2022, Bioresource Technology, 359,127444
5. Inactivation and risk control of pathogenic microorganisms in municipal sludge treatment: A review, Li, M., Song, G., Liu, R., Huang, X., Liu, H., 2022, Frontiers of Environmental Science and Engineering, 16(6),70
6. Analysis of solid waste discharged from water treatment plant as a fluoride-absorbing functional material, Vitorette, P.J., Zaccaron, A., Müller, T.G., (...), Peterson, M., Raupp-Pereira, F., 2022, Groundwater for Sustainable Development, 17,100765
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9. Response of Microcystis aeruginosa and Microcystin-LR to electron beam irradiation doses, Folcik, A.M., Klemashevich, C., Pillai, S.D., 2021, Radiation Physics and Chemistry, 186,109534

□ **Characterization and kinetics of thermal decomposition behavior of plum and fig pomace biomass**

**Katnić, Marinović-Cincović, M., Porobić, S.J., ...Sikirić, B., Živojinović, D.**

***Journal of Cleaner Production*, 2022, 352, 131637**

Број цитата (без аутоцитата): 3

Цитиран у:

1. Investigation of thermodynamic and kinetic parameters of Albizia lebbeck seed pods using thermogravimetric analysis, Rajamohan, S., Chidambaresh, S., Sundarajan, H., (...), Cao, D.N., Hoang, A.T., 2023, Bioresource Technology, 384,129333
2. A comprehensive overview of the continuous torrefaction method: Operational characteristics, applications, and challenges Javanmard, A., Abdul Patah, M.F., Zulhelmi, A., Daud, W.M.A.W., 2023, Journal of the Energy Institute, 108,101199
3. Properties and pelletization of Camellia oleifera shell after anoxic storage Huang, Z., Chen, H., Tan, M., (...), Zhong, R., Li, H., 2023, Biomass and Bioenergy, 170,106724

□ **Composite poly(DL-lactide-co-glycolide)/poly(acrylic acid) hydrogels synthesized using UV and gamma irradiation: comparison of material properties**  
**Janićijević, Vujčić, I., Veljović, Vujisić, M., Radovanović, F.**

*Radiation Physics and Chemistry*, 2020, 166, 108466

Број цитата (без аутоцитата): 3

Цитиран у:

1. Radiation initiated synthesis of (carboxymethyl cellulose/polyacrylamide) hydrogels with polyprotic acid moieties and their utilization in nicotinic acid release Mahdy, S.R., Awadallah-F, A., Khalil, S.A., 2022, *Polymers for Advanced Technologies*, 33(10), pp. 3690-3708
2. Radiation modified polymers for medical applications, Zaharescu, T., Varca, G.C., 2022, *Radiation Physics and Chemistry*, 194, 110043
3. Physicochemical and biological characterization of a xanthan gum-polyvinylpyrrolidone hydrogel obtained by gamma irradiation, López-Huante, T., Del Prado-Audelo, M.L., Caballero-Florán, I.H., (...), Cortes, H., Leyva-Gómez, G., 2021, *Cellular and Molecular Biology*, 67(1), pp. 73-79

□ **Gamma-radiation effects on luminescence properties of Eu<sup>3+</sup> activated LaPO<sub>4</sub> phosphor**  
**Vujčić, I., Gavrilović, T., Sekulić, M., ...Papan, J., Dramićanin, M.D.**

*Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms*, 2018, 422, pp. 85–90

Број цитата (без аутоцитата): 3

Цитиран у:

1. Intensity of the Eu<sup>3+</sup> hypersensitive transition in isostructural phosphate and vanadate compounds, Srivastava, A.M., Brik, M.G., Beers, W.W., (...), Piasecki, M., Cohen, W.E., 2023, *Journal of Luminescence*, 257, 119709
2. Photoluminescence enhancement from the defects state formed by neutron/gamma mixed irradiation in an epoxy resin for LED applications, Daoudi, M., Dridi, W., Sellemi, H., (...), Blaise, P., Hosni, F., 2019, *Radiation Effects and Defects in Solids*, 174(5-6), pp. 467-479

3. Photoluminescence and scintillation properties of Ti-doped CaHfO<sub>3</sub> crystals, Fukushima, H., Nakauchi, D., Kawaguchi, N., Yanagida, T., 2019, Japanese Journal of Applied Physics, 58(5),052005

- **Preservation of hemp flour using high-energy ionizing radiation: The effect of gamma radiation on aflatoxin inactivation, microbiological properties, and nutritional values**

**Vujčić, I., Mašić, S.**

*Journal of Food Processing and Preservation*, 2021, 45(4), e15314

Број цитата (без аутоцитата): 2

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2. The influence of nutrition in the food industry | [La influencia de la nutrición en la industria alimentaria], Gamero, A., Fernández-Villa, T., Pérez-López, A., (...), Nava-González, E.J., Navarrete-Muñoz, E.M., 2021, Revista Espanola de Nutricion Humana y Dietetica, 25(2), pp. 125-127

- **Effect of gamma irradiation on microbiological and nutritional properties of the freeze-dried berries**

**Mašić, S., Vujčić, I.**

*Nukleonika*, 2021, 66(4), pp. 221–225

Број цитата (без аутоцитата): 1

Цитиран у:

1. Berries: effects on health, preservation methods, and uses in functional foods: a review, Barkaoui, S., Madureira, J., Boudhrioua, N., Cabo Verde, S., 2023, European Food Research and Technology, 249(7), pp. 1689-1715

- **Preparation of beechwood/polymer composites using the method of lyophilization and gamma irradiation**

**Vujcic, I., Masic, S., Obradovic, N., Dramicanin, M.D.**

*Radiation Physics and Chemistry*, 2020, 166, 108505

Број цитата (без аутоцитата): 1

Цитиран у:

1. Eco-friendly and sustainable processing of wood-based materials, Akpan, E.I., Wetzel, B., Friedrich, K., 2021, Green Chemistry, 23(6), pp. 2198-2232

□ **Radiation effects on luminescent and structural properties of YPO<sub>4</sub>: Pr<sup>3+</sup> nanophosphors**

**Vujčić, I., Gavrilović, T., Sekulić, M., ...Dramićanin, M.D., Đorđević, V.**

***Radiation Effects and Defects in Solids*, 2018, 173(11-12), pp. 1054–1067**

Број цитата (без аутоцитата): 1

Цитиран у:

1. Temperature dependence of red emission in YPO<sub>4</sub>:Pr<sup>3+</sup> nanopowders Kahouadji, B., Guerbous, L., Jovanović, D.J., Dramićanin, M.D., 2022, Journal of Luminescence, 241,118499

## Руководство међународним пројектима



**IAEA**

*Atoms For Peace and Development*

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence Internationale de l'énergie atomique

Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

Vienna International Centre, P.O. Box 100, A-1400 Vienna, Austria

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ИНСТИТУТ ЗА НУКЛЕАРНЕ НАУКЕ

"Београд"

Бр. 605-40/2019-030

18. 12. 2019. год.

11001 БЕОГРАД, П.о. 522

Тел. (011) 3403101

**IAEA Research Contract No: 23599**

### Research Contract

This Research Contract is entered into between the International Atomic Energy Agency (hereinafter referred to as the "IAEA"), an intergovernmental organization established by its Statute, whose address is Vienna International Centre, P.O. Box 100, 1400 Vienna, Austria; and the Vinca Institute of Nuclear Sciences (hereinafter referred to as the "Contractor") whose address is:

Vinca Institute of Nuclear Sciences  
Mike Petrovica Alasa 12-14  
P.O. Box 522  
11001 Belgrade  
Serbia.

Hereinafter, the IAEA and the Contractor will also be referred to individually as a "Party" and collectively as the "Parties"

WHEREAS, the IAEA is authorized under its Statute and the decisions of its competent organs to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world, and this mandate includes the encouragement and assistance to research on, and the development of, practical applications of atomic energy for peaceful purposes throughout the world by, inter alia, entering into contracts for research and development;

WHEREAS, the IAEA Coordinated Research Project F22072, entitled 'Development of Radiation-Grafted Membranes for Cleaner and Sustainable Energy' has been approved from 4 December 2019 to 31 December 2023;

WHEREAS, the IAEA has approved the Contractor's carrying out the Research Project entitled 'Synthesis and CO<sub>2</sub> Separation Properties of the Radiation Grafted Polyether-b-amide/PEG Membranes with Zeolite Particles Dispersed in the Polymer Matrix' (hereinafter referred to as the "Research Project"), which forms part of the above-mentioned IAEA Coordinated Research Project; and

WHEREAS, the Contractor is able and willing to carry out the Research Project in cooperation with the IAEA under this Research Contract (hereinafter referred to as the "Contract").

NOW, THEREFORE, the Parties hereby agree as follows:

### Article 1

#### Scope of the Research Project

1. The Contractor undertakes to perform the Research Project entitled "Synthesis and CO<sub>2</sub> Separation Properties of the Radiation Grafted Polyether-b-amide/PEG Membranes with Zeolite Particles Dispersed in the Polymer Matrix" which forms part of the IAEA Coordinated Research Project



"F22072", entitled "Development of Radiation-Grafted Membranes for Cleaner and Sustainable Energy" in accordance with the terms and conditions of this Contract.

2. The Chief Scientific Investigator ("CSI") shall be Mr Ivica Vujcic.

3. The programme of work to be performed under this Research Project shall be:

1. Procurement of chemicals and radiological synthesis of the grafted polyether-b-amide/PEG polymers
2. Dispersion of the zeolite nano-powders in the polymer matrix in order to enhance the solubility of carbon dioxide.
3. Measurements of the permeability by the application of the gas at the one side of the membrane, with the vacuum applied at the opposite side.
4. Analyse the appearance of different membranes and determine the effect of dispersed different zeolites on the appearance of the membrane (the membrane should appear transparent, smooth, without any visible spots or zones of the different colour).
5. Dissemination of knowledge through the publication of scientific papers and conference presentations.

4. The programme of work may be further detailed by exchange of letters between the Parties.

#### **Article 2 Implementation Period**

The Contractor shall commence the Research Project on the date of entry into force of this Contract in accordance with Article 21 ("Entry into Force and Duration") of this Contract and shall finalize the Research Project not later than 31 December 2023.

#### **Article 3 Implementation of the Research Project and Reporting**

1. The Contractor shall implement the Research Project in accordance with the quality standards and criteria normally required for carrying out such research.
2. The Contractor shall provide the IAEA with the following reports concerning the implementation of the Research Project:
  - a) Progress reports: The Contractor shall send annual progress reports to the IAEA. The first progress report shall be sent to the IAEA not later than twelve (12) months after entry into force of this Contract pursuant to Article 21 ("Entry into Force and Duration") of this Contract. Any subsequent annual progress reports shall be sent not later than twelve (12) months after the submission of the first progress report; and
  - b) Final report: The final report shall be sent to the IAEA thirty (30) days after completion of the Research Project, or by the date agreed by the Parties.
3. Any report submitted pursuant to paragraph 2 of this Article shall be submitted in the English language and shall be prepared on the basis of the relevant template as provided in Annex A ("Annual Progress Report and Final Report Templates") to this Contract.
4. Each Party shall alert the other Party in the event that any risks or major problems are encountered with the Research Project, whatever the cause. Such problems may include but are not limited to those affecting the implementation of the Research Project, its finances, and any technical issues that could have an impact on the implementation of the Research Project.
5. Notwithstanding paragraph 2 of this Article, the IAEA may, at any time, request further information pertaining to the implementation of the Research Project including the use of the funds provided by the IAEA, and/or additional progress reports.



**IAEA**

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International Atomic Energy Agency

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Международное агентство по атомной энергии

Organismo Internacional de Energia Atómica

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ИНСТИТУТ ЗА НУКЛЕАРНЕ НАУКЕ  
ИНСТИТУТ ОД РАДИОЈАНОГ ЗНАЧАЈА ЗА РЕПУБЛИКУ СРБИЈУ  
УНИВЕРЗИТЕТ У БЕОГРАДУ

"ВИНЧА"

Бр. 605-2/2022-030

11-02-2022 год.

11001 БЕОГРАД, БИНА, 11.11.2022

Тел. (011) 3408101

## IAEA Research Contract No: 25168

### Research Contract

This Research Contract is entered into between the International Atomic Energy Agency (hereinafter referred to as the "IAEA"), an intergovernmental organization established by its Statute, whose address is Vienna International Centre, P.O. Box 100, 1400 Vienna, Austria; and the "VINCA" Institute of Nuclear Sciences (hereinafter referred to as the "Contractor") whose address is:

"VINCA" Institute of Nuclear Sciences  
Institute of National Importance for the Republic of Serbia  
University of Belgrad  
Mike Petrovica Alasa 12-14  
Belgrade  
Serbia.

Hereinafter, the IAEA and the Contractor will also be referred to individually as a "Party" and collectively as the "Parties"

WHEREAS, the IAEA is authorized under its Statute and the decisions of its competent organs to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world, and this mandate includes the encouragement and assistance to research on, and the development of, practical applications of atomic energy for peaceful purposes throughout the world by, inter alia, entering into contracts for research and development;

WHEREAS, the IAEA Coordinated Research Project F23036, entitled 'Recycling of polymer waste for structural and non-structural materials by using ionizing radiation' has been approved from 2021-07-14 to 2026-09-30;

WHEREAS, the IAEA has approved the Contractor's carrying out the Research Project entitled 'Radiation Modification of Polyethylene and Polypropylene for Enhancing Recycling of Polymer Wastes' (hereinafter referred to as the "Research Project"), which forms part of the above-mentioned IAEA Coordinated Research Project; and

WHEREAS, the Contractor is able and willing to carry out the Research Project in cooperation with the IAEA under this Research Contract (hereinafter referred to as the "Contract").

NOW, THEREFORE, the Parties hereby agree as follows:

### Article 1 Scope of the Research Project

1. The Contractor undertakes to perform the Research Project entitled "Radiation Modification of Polyethylene and Polypropylene for Enhancing Recycling of Polymer Wastes" which forms part of the IAEA Coordinated Research Project "F23036", entitled "Recycling of polymer waste for structural

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and non-structural materials by using ionizing radiation" in accordance with the terms and conditions of this Contract.

2. The Chief Scientific Investigator ("CSI") shall be Mr Ivica Vujcic.

3. The programme of work to be performed under this Research Project shall be:

1. Preparation of iPP-LDPE blends: The iPP-LDPE blends will have the different weight percentage compositions. Melt blending of granules will be accomplished in a HAAKE Plasticorder. These mixtures will be compression-moulded into sheets in Carver press. The moulded sheets will be either air-cooled or rapidly quenched by dipping the press plates into ice water.

2.  $\gamma$ -irradiation synthesis of iPP-LDPE blends in absence of oxygen: The iPP-LDPE moulded sheets will be irradiated by gamma rays, in absence of oxygen (inert argon atmosphere), at room temperature. Different total radiation doses will be applied.

3. Ageing of  $\gamma$ -irradiated iPP-LDPE in high oxygen pressure.

4. Gel yield of  $\gamma$ -irradiated LDPE-iPP blends for determination the degree of crosslinking of  $\gamma$ -irradiated blends: The gel yield will be determined by separating the gel insoluble fractions from the solute by treating the crosslinked blends in a suitable solvent at a defined temperature. The gel yield represents the ratio of post-extraction sample weight to pre-extraction sample weight. The sol, as soluble fraction will be calculated as the difference between the weight of the samples before and after extraction. The gel mass fraction will be obtained gravimetrically.

4. The programme of work may be further detailed by exchange of letters between the Parties.

## **Article 2**

### **Implementation Period**

The Contractor shall commence the Research Project on the date of entry into force of this Contract in accordance with Article 21 ("Entry into Force and Duration") of this Contract and shall finalize the Research Project not later than 2026-09-30.

## **Article 3**

### **Implementation of the Research Project and Reporting**

1. The Contractor shall implement the Research Project in accordance with the quality standards and criteria normally required for carrying out such research.

2. The Contractor shall provide the IAEA with the following reports concerning the implementation of the Research Project:

a) Progress reports: The Contractor shall send annual progress reports to the IAEA. The first progress report shall be sent to the IAEA not later than twelve (12) months after entry into force of this Contract pursuant to Article 21 ("Entry into Force and Duration") of this Contract. Any subsequent annual progress reports shall be sent not later than twelve (12) months after the submission of the first progress report; and

b) Final report: The final report shall be sent to the IAEA thirty (30) days after completion of the Research Project, or by the date agreed by the Parties.

3. Any report submitted pursuant to paragraph 2 of this Article shall be submitted in the English language and shall be prepared on the basis of the relevant template as provided in Annex A ("Annual Progress Report and Final Report Templates") to this Contract.

4. Each Party shall alert the other Party in the event that any risks or major problems are encountered with the Research Project, whatever the cause. Such problems may include but are not limited to those affecting the implementation of the Research Project, its finances, and any technical issues that could have an impact on the implementation of the Research Project.

*OK*

## Чланство у организационим одборима међународних конференција



**IAEA**

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In reply please refer to: TN-RER1019-1900402

Dial directly to extension: (+43 1) 2600-22314

Mr Ivica Vujcic

Vinca Institute of Nuclear Sciences

Mihajla Petrovica Alasa 12-14

P.O.BOX 522

11001 BELGRADE

SERBIA

2019-09-24

Subject: Regional Training Course on the Safe Operation of Irradiation Facilities, Belgrade, Serbia from 14 to 18 October 2019

Dear Mr Vujcic,

I was pleased to learn that you will act as Finance Officer of the above-mentioned event and that you are prepared to make payments on behalf of the International Atomic Energy Agency (IAEA).

Please find attached the detailed payment instructions for the event. The IAEA's Division of Budget and Finance will make the required funds available to you as indicated in point II.

You are requested to send, within 30 days after the conclusion of the event, the original receipts of the hospitality event and the local costs, and a list with the names of the persons that attended the hospitality event. You are requested to reimburse any unused balance of funds to the IAEA as indicated in point III of the attached instructions.

Please find herewith an information sheet on the conditions of the health insurance by which the non-local participants are covered. Please note that medical expenses should not be reimbursed to participants in advance. We consider that reimbursement of such expenses is strictly a matter between the insured and the insurance company and may not be advanced out of IAEA funds in the expectation that reimbursement will be coming later from the insurance company. Only in case of hardship and upon special request by the Course Director would the IAEA be prepared to authorize advance reimbursement on a case-by-case basis.

You are requested to inform the IAEA at the beginning of the event whether all participants have arrived. This information is essential for the validity of the participants' health insurance.

Should you have any questions, please do not hesitate to get in touch with the Administrative Contact for the event, Ms Marina Vetter (e-mail: [M.Vetter@iaea.org](mailto:M.Vetter@iaea.org), telephone: +43 1 260022314).



**IAEA**

*Atoms for Peace and Development*

الوكالة الدولية للطاقة الذرية  
国际原子能机构  
International Atomic Energy Agency  
Agence internationale de l'énergie atomique  
Международное агентство по атомной энергии  
Organismo Internacional de Energía Atómica

Vienna International Centre, PO Box 100, 1400 Vienna, Austria  
Phone: (+43 1) 2600 · Fax: (+43 1) 26007  
Email: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org) · Internet: <https://www.iaea.org>

In reply please refer to: TN-RER1021-2206831  
Dial directly to extension: (+43 1) 2600-22394

Mr Ivica Vujcic

Vinca Institute of Nuclear Sciences  
Mike Petrovica Alasa 12-14 - P.O. Box 522  
11001 BELGRADE  
SERBIA

2023-06-20

Subject: Regional Training Course on the Safe Operation of Irradiation Facilities , Belgrade, Serbia from 26 to 30 June 2023

Dear Mr Vujcic,

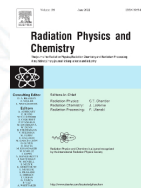
I was pleased to learn that you will act as Finance Officer of the above-mentioned event and that you are prepared to make payments on behalf of the International Atomic Energy Agency (IAEA).

**Payment Instructions:** Please find attached the detailed "Payment Instructions" for the event. The IAEA's Division of Budget and Finance will make the required funds available to you as indicated in point II.

**Health insurance:** The attached information sheet explains the conditions of the health insurance for non-local participants. Medical expenses should not be reimbursed to participants in advance. Reimbursement of such expenses is strictly a matter between the insured and the insurance company and may not be advanced out of IAEA funds in the expectation that reimbursement will be coming later from the insurance company. Only in case of hardship and upon special request by the Course Director would the IAEA be prepared to authorize advance reimbursement on a case-by-case basis.

**You are requested to inform the IAEA at the beginning of the event whether all participants arrived.** This information is essential for the validity of the participants' health insurance.





Radiation Physics and Chemistry

# Certificate of Reviewing

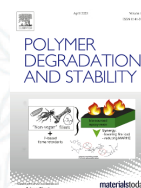
Awarded since April 2021 (4 reviews)  
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**IVICA VUJČIĆ**

in recognition of the review contributed to the journal

The Editors of Radiation Physics and Chemistry





Polymer Degradation and Stability

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**IVICA VUJCIC**

in recognition of the review contributed to the journal

The Editors of Polymer Degradation and Stability



## REVIEW CONFIRMATION CERTIFICATE

We are pleased to confirm that

*Ivica Vujcic*

has reviewed 2 papers for the following MDPI journal in the period 2019–2022:

*Heritage*

Dr. Shu-Kun Lin, Publisher and President  
Basel, 11 April 2022



MDPI is a publisher of open access, international, academic journals. We rely on active researchers, highly qualified in their field to provide review reports and support the editorial process. The criteria for selection of reviewers include: holding a doctoral degree or having an equivalent amount of research experience; a national or international reputation in the relevant field; and having made a significant contribution to the field, evidenced by peer-reviewed publications.

Completed Reviewer Assignments for Ivica Vujcic

Page: 1 of 1 (2 total assignments)

Display 10 results per page.

Action	My Reviewer Number	Manuscript Number	Article Type	Article Title	Final Disposition	Date Reviewer Invited	Date Reviewer Accepted	Date Review Due	Date Review Submitted	Days Taken	Editor's Name	Corr. Author
<a href="#">Action Links</a>	2	JRNC-D-19-00217R1	Manuscript	Gamma-radiation combined with tricycloazole to protect tempera paintings in ancient Egyptian tombs (Nile Delta, Lower Egypt)	Accept	13 May 2019	13 May 2019	28 May 2019	14 May 2019	1	Yahia Elbeshar	
<a href="#">Action Links</a>	2	JRNC-D-19-00217	Manuscript	Gamma-radiation combined with tricycloazole to protect tempera paintings in ancient Egyptian tombs (Nile Delta, Lower Egypt)	Accept	14 Mar 2019	15 Mar 2019	14 Apr 2019	10 Apr 2019	26	Yahia Elbeshar	

Page: 1 of 1 (2 total assignments)

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[FAMENA] Manuscript review received (FAMENA.0113 Experimental Investigation on red mud micro particle reinforced Cissus Quadrangularis stem Fiber composite) [Приміщення](#)



FAMENA <famena@sdeswes.org>  
come ja

уто 3. мар 09:23 ☆ ↶ ⋮

А енглески > српски Преведи поруку

Искључи за енглески x

Dear Dr. Vujcic,

Thank you for submitting the manuscript review of the submission:

FAMENA.0113 Experimental Investigation on red mud micro particle reinforced Cissus Quadrangularis stem Fiber composite

Iyyadurai Jenish\*, Rohini college of Engineering and Technology, India  
Veeramalai Chinnasamy Sathish Gandhi, University College of Engineering Nagercoil, India  
Satyappa Basavarajappa, Indian Institute of Information Technology, India  
Suyambulingam Indran, Rohini college of Engineering and Technology, India

for FAMENA journal.

Your decision: RESUBMIT AFTER CONSIDERATIONOF THE RECOMMENDED REVISIONS

Your comment:

\* Overall rating:  
Average

\* Categorisation  
Scientific paper

\* Grade of innovation:  
Low

\* Are the scope and contents of the paper appropriate for the Journal?  
Yes



## Менторства и чланства у комисијама

ДП

На основу чл. 40. став 3. Закона о високом образовању, чл. 112. став 3. Статута Универзитета у Београду, чл. 88. став 3. Статута ТМФ-а и чл.31. и 32. Правилника о докторским студијама ТМФ-а на седници Наставно-научног већа Технолошко-металуршког факултета од 05.11.2020. године, донета је

### О Д Л У К А

о прихватању Реферата Комисије за оцену подобности теме и кандидата  
за израду докторске дисертације

Прихвата се Реферат Комисије за оцену подобности теме и кандидата и одобрава израда докторске дисертације **Бојана Ранковића**, број индекса 4003/2012, под називом: „**Третман отпадних муљева из постројења за припрему воде за пиће применом јонизујућег зрачења**“.

Одлуку о давању сагласности на предлог теме докторске дисертације доноси Универзитет у Београду.

За менторе се одређују др Владимир Павићевић, доцент Технолошко-металуршког факултета Универзитета у Београду и др Ивица Вујчић, научни сарадник Института за нуклеарне науке Винча.

Одлуку доставити: Универзитету у Београду, кандидату, менторима, Служби за наставно студентске послове и архиви Факултета.

Д Е К А Н

Проф. др Петар Ускоковић

---



**УНИВЕРЗИТЕТ У БЕОГРАДУ**  
**ЕЛЕКТРОТЕХНИЧКИ ФАКУЛТЕТ**

Булевар краља Александра 73, П.Ф. 35-54, 11120 Београд, Србија

Тел: +381 11 3248464, Факс: +381 11 3248681

Република Србија  
Универзитет у Београду  
Електротехнички факултет  
Број: 5026/11-3  
Датум: 30 MAY 2022

На основу члана 40. Закона о високом образовању (Сл. Гласник РС“ бр. 88/2017, 27/2018-др. закон, 73/2018, 67/2019, 6/2020-др. закон, 11/2021-Аутентично тумачење, 67/2021 и 67/2021-др. закон), члана 112. Статута Универзитета у Београду („Гласник Универзитета у Београду“, бр. 201/2018, 207/2019, 213/2020, 214/2020, 217/2020, 230/2021, 232/2021 и 233/2022), члана 86. Статута Универзитета у Београду-Електротехничког факултета и чланова 45. и 46. Правилника о докторским студијама Електротехничког факултета Универзитета у Београду, Наставно-научно веће на својој 873. седници одржаној 17.05.2022. године, донело је

**ОДЛУКУ**

о именовању Комисије у саставу:

1. др Милош Вујисић, ванредни професор, Електротехнички факултет у Београду
2. др Јован Цветић, редовни професор, Електротехнички факултет у Београду
3. др Ивица Вујчић, научни сарадник, Институт за нуклеарне науке „Винча“

за преглед и оцену докторске дисертације под насловом “Радијациона стабилност полимерних, геополимерних и композитних материјала за примене у управљању радиоактивним отпадом“ коју је пријавио Милан Вујовић, мастер.инж.електротехничког рачунарства.

Комисија за преглед и оцену докторске дисертације дужна је да поднесе извештај Наставно-научном већу Факултета у року од три месеца од датума доношења одлуке (не рачунајући летњу паузу по календару наставе).

Припремила: секретарица стручних органа

Председавајући Наставно-научног већа  
Проф. др Дејан Гвоздић



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Vinca

x IAEA Intercomparison

x IAEA Membrane

x Nova godina itd

x Radovi

From

Diana Orlić

To

Gordana Dražić, Jelena Milovanović, Ivica Vujčić

Cc

Vuk Gajić, Dragan Cvetković, Drazen Prica, Slobodan Radovanović, Računarski centar, master, Snežana Pešić

Date

2022-10-28 12:38

Message 1167 of 5999

Poštovana, i prof,

obaveštavam Vas da će, dana 10.11.2022. godine, sa početkom u 14:00 časova, u sali S 32, na III spratu UNIVERZITETA SINGIDUNUM, Danijelova 32, u Beogradu, kandidat Vuk Gajić, master, broj dosijea 485048/2019, pristupiti odbrani doktorske disertacije na temu "Mikrobiološka dekontaminacija priobalnog zemljišta u slivu reke Kolubare primenom visokoenergetskog jonizujućeg zračenja".

Članovi komisije:

Prof.dr Jelena Milovanović, predsednik

dr Ivica Vujčić, naučni saradnik, član

Prof. dr Gordana Dražić, mentor

Odbrana je javnog karaktera.

Srdačan pozdrav,

Diana Orlić  
Samostalni stručni saradnik  
Univerzitet Singidunum  
Danijelova 32, Beograd  
011/3094-047  
<http://singidunum.ac.rs/>

Предавања по позиву на међународним конференцијама



**AMITY UNIVERSITY**  
UTTAR PRADESH

**AMITY INSTITUTE OF APPLIED SCIENCES**

Date: 19<sup>th</sup> January 2021

To  
Dr. Ivica T. Vujcic  
Research Associate & Head of the Dosimetry Laboratory  
Vinca Institute of Nuclear Sciences,  
Vinca-Belgrade, Serbia

Dear Dr. Ivica T. Vujcic,

We are extremely grateful to you for delivering a very useful and valuable invited talk on the topic, "Use of radiation technology in the development of active packaging material in the food industry based on polyethylene & silver zeolite" in the International e-Symposium on "Smart Polymers: Applications in Current Scenario" (SPACS-2021) held on 15<sup>th</sup>-16<sup>th</sup> January 2021 on Zoom link, organized by Amity Institute of Applied Sciences, Amity University and Asian Polymer Association.

We truly appreciate you and extend our gratitude for sparing your precious time and sharing your insights in the programme.

We look forward to a mutually rewarding collaboration with you in future also.

With regards

(Prof. Sunita Rattan)

Director,  
Amity Institute of Applied Sciences,  
Amity University, Sector-125, Noida

---

Amity University Campus, Sector - 125, Noida - 201 313, Gautam Buddha Nagar, U.P. (INDIA)

Tel.: +91(0)-120-4392884 / 4392466 Fax : +91(0)-120-2433234

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### Invited Speakers

**Yuki TANABE**  
METI

active

**Tinne VAN DER STRAETEN**  
Federal Government of Belgium

**Ivica VUJCIC**  
Vinca Institute of Nuclear Sciences

active

**Xiaolu WANG**  
Nuclear Power Institute of China (NPIC)

active

**Bruce WATSON**  
U.S. Nuclear Regulatory Commission, Office...

active

**Brian WILCOX**  
Reactor Decommissioning, Canadian Nuclea...

active

**Laura WILKERSON**  
U.S. Department of Energy

active

**Haimanot YILMA**  
OECD Nuclear Energy Agency (NEA)





*Certificate of Attendance*

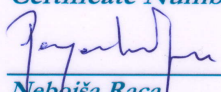
*Ivica Vujčić*

*has attended*  
**SRPS ISO 9001:2015**  
*Internal Auditor Training Course*

*held in:* Vinča : GAMA Laboratorija  
Belgrade, Serbia

*on the:* 21. 09. 2017

*Certificate Number:* QEI K9 01 955 202/SER/2017

  
Nebojša Raca  
General Manager





*Certificate of Attendance*

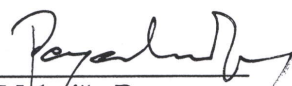
*Ivica Vujčić*

*has attended*  
***SRPS EN ISO 13485:2016***  
*Internal Auditor Training Course*

*held in:* ***RQA Belgrade***  
***Belgrade, Serbia***

*on the:* ***25. 03. 2018***

*Certificate Number:* ***018/2018***

  
***Nebojša Raca***  
***General Manager***

## Одлука о именовању за Представника руководства за квалитет

Institut „Vinča“, Laboratorija „Gama“  
Datum: 01.04.2015.

U cilju uspješne realizacije Projekta uvođenja sistema menadžmenta kвалитетom prema seriji standarda ISO 9001:2008, i ISO 13485:2003 donosim

### O D L U K U

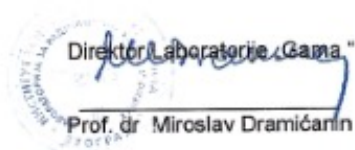
Određujem **Ivicu Vujčić** за Представника руководства за квалитет. Он ће бити директно одговоран за реализацију задатака у оквиру наведеног пројекта, као и за:

- утврђивање политике и циљева квалитета у Institutu „Vinča“, Laboratorija „Gama“ ;
- преиспитивање организационих решења у мери у којој она утичу на систем менаџмента квалитетом, као и давање предлога за њихово побољшавање;
- праћење остварења програма менаџмента квалитетом и извештавање највишег руководства Instituta „Vinča“, Laboratorije „Gama“ у циљу утврђивања потребе за побољшањима, као и верификовање предлоženih корективних мера;
- израду, ревизију и одржавање Poslovnika о квалитету;
- контролу свих осталих докумената система менаџмента квалитета;
- спровођење поступака интерних провера система менаџмента квалитета;
- координацију активности целог циклуса обуке за квалитет.

Kao Представник руководства за квалитет, он је истовремено и руководилац Пројектног тима, чији су задаци дефинисани посебном Одлуком директора.

Dostavljeno:

- Директору,
- Представнику руководства за квалитет

  
Direktor Laboratorije „Gama“  
Prof. dr. Miroslav Dramićanin