

MATERIALS RESEARCH SOCIETY OF SERBIA
INSTITUTE OF TECHNICAL SCIENCES OF SASA

Programme and the Book of Abstracts

**NINETEENTH YOUNG RESEARCHERS' CONFERENCE
MATERIALS SCIENCE AND ENGINEERING**

Belgrade, December 1-3, 2021



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MATERIALS SCIENCE AND ENGINEERING**

December 1-3, 2021, Belgrade, Serbia

Program and the Book of Abstracts

**Materials Research Society of Serbia
&
Institute of Technical Sciences of SASA**

2021

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Program and the Book of Abstracts

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Aim of the Conference

Main aim of the conference is to enable young researchers (post-graduate, master or doctoral student, or a PhD holder younger than 35) working in the field of materials science and engineering, to meet their colleagues and exchange experiences about their research.

Topics

Biomaterials
Environmental science
Materials for high-technology applications
Materials for new generation solar cells
Nanostructured materials
New synthesis and processing methods
Theoretical modelling of materials

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Siniša Vučenović Faculty of Sciences, Department of Physics, Banja Luka, B&H
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Results of the Conference

Beside printed «Program and the Book of Abstracts», which is disseminated to all conference participants, selected and awarded peer-reviewed papers will be published in journal “Tehnika – Novi Materijali”. The best presented papers, suggested by Session Chairpersons and selected by Awards Committee, will be proclaimed at the Closing Ceremony. Part of the award is free-of-charge conference fee at YUCOMAT 2022.

Sponsors



ANALYSIS
LABORATORY EQUIPMENT

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Programme
Nineteenth Young Researchers Conference
Materials Science and Engineering

Wednesday, December 1, 2021

09.00 – 10.15 1st Session – Biomaterials I

Chairpersons: Prof. Dr. Bojana Obradović and Marija Kostić

09.00 – 09.15 Synthesis and characterization of the pH-sensitive saccharide-based polyurethane hydrogels

Marija Kostić

Faculty of Technology Novi Sad, University of Novi Sad, Novi Sad, Serbia

09.15 – 09.30 Antiradical activity of graphene quantum dots enriched albumin hydrogel: An EPR study

Đura Nakarada¹, Vladimir Trajković², Miloš Mojović¹

¹*University of Belgrade, Faculty of Physical Chemistry, Belgrade, Serbia,* ²*University of Belgrade, Faculty of Medicine, Belgrade, Serbia*

09.30 – 09.45 Characteristics of thin films of biological substances deposited on polyethylene terephthalate (PET) in terms of biomedical applications

K. Szafran¹, M. Jurak¹, R. Mroccka², A.E. Wiącek¹

¹*Department of Interfacial Phenomena, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie-Skłodowska University, Lublin, POLAND,* ²*Laboratory of X-Ray Optics, Centre for Interdisciplinary Research, Faculty of Science and Health, The John Paul II Catholic University of Lublin, Poland*

09.45 – 10.00 Additive-free resveratrol micro- and nanoparticles and assessment of their toxicity

Nina Tomić¹, Maja Kuzmanović¹, Dragana Mitić Ćulafić², Magdalena M. Stevanović¹

¹*Institute of Technical Sciences of SASA, Knez Mihailova 35/IV 11000 Belgrade, Serbia,* ²*Department of Microbiology, University of Belgrade - Faculty of Biology, Studentski trg 16, Belgrade, Serbia*

10.00 – 10.15 The use of Langmuir's technique to assess the antibacterial properties of chemical substances

Agata Ładniak¹, Małgorzata Jurak¹, Marta Palusińska-Szyszyńska², Klaudia Woźniak¹, Kacper Przykaza¹, Agnieszka Ewa Wiącek¹

¹*Institute of Chemical Sciences, Department of Interfacial Phenomena, Faculty of Chemistry, Maria Curie-Skłodowska University, M. Curie-Skłodowska Sq. 3, 20-031 Lublin, Poland,*

²*Institute of Biological Sciences, Department of Genetics and Microbiology, Faculty of Biology and Biotechnology, Maria Curie-Skłodowska University, Akademicka 19, 20-033 Lublin, Poland*

10.15 – 10.30 Break

10.30 – 12.00 2nd Session – Biomaterials II

Chairpersons: Dr. Djordje Veljović and Ivana Banićević

10.30 – 10.45 Development of a physiologically relevant 3D *in vitro* model for osteosarcoma cell cultivation comprising alginate composite scaffolds and a perfusion bioreactor system

Ivana Banićević¹, Mia Radonjić¹, Marija Pavlović¹, Milena Milivojević², Milena Stevanović^{2,3,4}, Jasmina Stojkowska^{1,5}, Bojana Obradović¹

¹*Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia,* ²*Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Belgrade, Serbia,* ³*Faculty of Biology, University of Belgrade, Belgrade, Serbia,* ⁴*Serbian Academy of Sciences and Arts, Belgrade, Serbia,* ⁵*Innovation Center of the Faculty of Technology and Metallurgy, Belgrade, Serbia*

10.45 – 11.00 Electrochemical composite bioceramic coatings based on hydroxyapatite, chitosan and polyvinyl alcohol loaded with gentamicin

Nevena Jaćimović¹, Marija Došić², Ana Janković¹, Vesna Mišković – Stanković¹

¹*Faculty of Technology and Metallurgy, University of Belgrade, Karnegijeva 4, Belgrade, Serbia,* ²*Institute for Technology of Nuclear and Other Mineral Raw Materials, Bulevar Franš d'Eperea 86, Belgrade, Serbia*

11.00 – 11.15 Optimization of Bioreactor Cultures of Glioblastoma Cells Immobilized in Alginate Microfibers

Jelena Petrović^{1,2}, Mia Radonjić^{1,2}, Jasmina Stojkowska^{1,2}, Bojana Obradović¹

¹*Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia,* ²*Innovation Center of the Faculty of Technology and Metallurgy, Belgrade, Serbia*

11.15 – 11.30 Laser induced periodic surface structures on Ti thin films by ultrafast laser irradiation

Nevena Božinović¹, Vladimir Rajić¹, Danilo Kisić¹, Dragana Tošić¹, Dubravka Milovanović², Suzana Petrović¹

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

²*University of Belgrade, Institute of General and Physical Chemistry, Studentski trg 12/V, 11158 Belgrade, Serbia*

11.30 – 11.45 Omitting mischmetal and zirconium as a next step in the development of biodegradable magnesium implants

Maria Zemkova¹, Peter Minarik¹, Eva Jablonska², Jozef Vesely¹, Jan Bohlen³, Robert Kral¹
¹Charles University, Ke Karlovu 5, 121 16 Prague, Czech Republic, ²University of Chemistry and Technology, Technicka 5, 166 28 Prague, Czech Republic, ³Helmholtz-Zentrum Geesthacht, Magnesium Innovation Center, Max-Planck-Straße 1, 215 02 Geesthacht, Germany

11.45 – 12.00 Photo-activation of a dental composite from within using optical fibers – a holographic study

Evgenije Novta¹, Tijana Lainović¹, Dušan Grujić², Svetlana Savić-Šević², Dejan Pantelić², Larisa Blažić^{1,3}
University of Novi Sad, Faculty of Medicine, School of Dental Medicine, Novi Sad, Serbia, University of Belgrade, Institute of Physics, Belgrade, Serbia, Dental Clinic of Vojvodina, Novi Sad, Serbia

12.00 – 12.15 Break

12.15 – 13.30 3rd Session – Biomaterials III

Chairpersons: Dr. Magdalena Stevanović and Tamara Matić

12.15 – 12.30 Electrophoretic deposition vs. dip-coating of the bioceramic layers on Ti6Al4V scaffolds

Marija Milivojević¹, Željko Radovanović¹, Suzana Dimitrijević², Miljana Popović², Rada Petrović², Đorđe Veljović², Đorđe Janačković²
¹Innovation Center of Faculty of Technology and Metallurgy, Belgrade, Serbia, ²Faculty of Technology and Metallurgy University of Belgrade

12.30 – 12.45 Dental inserts based on calcium hydroxyapatite: The influence of cation doping

Tamara Matić¹, Maja Ležaja Zebić², Vesna Miletić³, Rada Petrović⁴, Đorđe Janačković⁴, Đorđe Veljović⁴

¹University of Belgrade, Innovation Center of the Faculty of Technology and Metallurgy, Belgrade, Serbia, ²University of Belgrade, School of Dental Medicine, Belgrade, Serbia, ³The University of Sydney, Faculty of Medicine and Health, Sydney Dental School, Surry Hills NSW, Australia, ⁴University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

12.45 – 13.00 Synthesis and antimicrobial properties of ZnO deposited on hydroxyapatite

Marija Stevanović¹, Rada Petrović², Đorđe Veljović², Suzana Dimitrijević², Đorđe Janačković²

¹*Inovacioni Centar Tehnološko-metalurškog fakulteta u Beogradu d.o.o.*, ²*Tehnološko-metalurški fakultet Univerzitet u Beogradu*

13.00 – 13.15 Processing of gelatine coated composite scaffolds based on magnesium and strontium doped hydroxyapatite and yttria-stabilised zirconium oxide

Aleksa Galić¹, Tamara Matić², Nataša Obradović², Đorđe Veljović¹

¹*University of Belgrade, Faculty of Technology and Metallurgy, Department of Inorganic Chemical Technologies, Karnegijeva 4, 11000 Belgrade, Serbia*, ²*Innovation Center of Faculty of Technology and Metallurgy, Karnegijeva 4, 11000 Belgrade, Serbia*

13.15 – 13.30 Dissolving and water absorption ability of spray-dried willow gentian extract

Miloš Jovanović¹, Nada Čujić-Nikolić¹, Zorica Drinić¹, Teodora Janković¹, Smilja Marković², Katarina Šavikin¹

¹*Institute for Medicinal Plants Research “Dr. Josif Pančić”, Tadeuša Koščuška 1, 11000 Belgrade*, ²*Institute of Technical Sciences of SASA, Knez Mihailova 35/IV, 11000 Belgrade*

13.30 – 14.45 Lunch break

14.45 – 16.15 4th Session – Environmental Materials I

Chairpersons: Dr. Smilja Marković and Dr. Konrad Terpiłowski

14.45 – 15.00 Hydrophobization, a method of monument protection

Joanna Podkościelna, Konrad Terpiłowski

Department of Interfacial Phenomena, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie Skłodowska University Lublin, Poland

15.00 – 15.15 Optimization of biodiesel production from waste cooking oil using waste-based CaO/zeolite catalyst

Stefan Pavlović, Dalibor Marinković, Miroslav Stanković

University of Belgrade, Institute of Chemistry, Technology, and Metallurgy-National Institute of Republic of Serbia, Njegoševa 12, 11000 Belgrade

15.15 – 15.30 Experimental determination of thermodynamic properties and modeling of new choline based ionic liquids

Ivona Đorđević, Nikola Grozdanić, Ivona Radović

University of Belgrade, Faculty of Technology and Metallurgy, Karnegijeva 4, 11120 Belgrade, Serbia

15.30 – 15.45 Xylanase production from *Penicillium chrysogenum* and its application in degradation of agricultural waste

Olivera Vukoičić, Nataša Šekuljica, Zorica Knežević-Jugović

*University of Belgrade, Faculty of Technology and Metallurgy, Karnegijeva 4, 11120
Belgrade, Serbia*

15.45 – 16.00 Carbon material derived from viscose as adsorbent for chlorpyrifos

Vedran Milanković¹, Tamara Lazarević – Pašti²

¹*University of Belgrade, Faculty of Physical Chemistry, Studentski Trg 12, 11000 Belgrade, Serbia,* ²*University of Belgrade, VINČA Institute of Nuclear Sciences - National Institute of the Republic of Serbia, Mike Petrovica Alasa 12-14, 11000 Belgrade, Serbia.*

16.00 – 16.15 Application of DInSAR Technology for Monitoring the Subsidence Induced by Salt Mining in Tuzla, Bosnia and Herzegovina

Bojana Grujić, Žarko Grujić

University of Banja Luka, Faculty of Architecture, Civil Engineering and Geodesy, Banja Luka /Department of Civil Engineering

16.15 – 16.30 Break

16.30 – 18.00 5th Session – Environmental Materials II

Chairpersons: Dr. Ana Stanković and Michał Chodkowski

16.30 – 16.45 Effective sorption of toxic brilliant green using lignocellulosic waste biomasses and derived biochar samples

Anja Antanasković¹, Zorica Lopičić¹, Tatjana Šoštarić¹, Jelena Milojković¹, Vladimir Adamović¹, Kristina Vučković², Milan Milivojević²

¹*Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia,*

²*Faculty of Technology and Metallurgy, University of Belgrade, Serbia*

16.45 – 17.00 Synthesis of Samarium and Zirconium-doped TiO₂ nanofibers with improved photocatalytic activity

Sanita Ahmetović¹, Zorka Ž. Vasiljević¹, Nikola Cvjetičanin², Jelena Vujančević³, Nenad B. Tadić⁴, Vladimir B. Pavlović⁵, Maria Vesna Nikolić¹

¹*University of Belgrade – Institute for Multidisciplinary Research, Belgrade, Serbia,*

²*University of Belgrade, Faculty of Physical Chemistry, Belgrade, Serbia,* ³*ITS SASA,*

⁴*University of Belgrade, Faculty of Agriculture, Belgrade, Serbia*

17.00 – 17.15 Investigation of biological activity of freeze-dried goat whey with the addition of dry spices

Mihailo Mladenović, Marija Milić, Suzana Dimitrijević-Branković

University of Belgrade, Faculty of Technology and Metallurgy, Department of Biochemical Engineering and Biotechnology

17.15 – 17.30 Europium-doped manganese tungstate for dual electrocatalytic activity

Andrej Kukuruzar¹, Slađana Savić¹, Filip Vlahović², Dalibor Stanković^{1,3}

¹University of Belgrade, Faculty of Chemistry, Studentski trg 12-16, 11000, Beograd, Serbia,

²Innovation Center of the Faculty of Chemistry, University of Belgrade, Serbia, ³'VINČA' Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

17.30 – 17.45 Thermally activated pyrophyllite as ceramic membrane

Katarina Tošić¹, Bojana Paskaš Mamula¹, Nikola Novaković¹, Mirjana Medić Ilić¹, Igor Milanović¹, Silvana Dimitrijević², Jasmina Grbović Novaković¹

¹Centre of Excellence for Hydrogen and Renewable Energy, Vinča Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, POB 522

Belgrade, Serbia, ²The Mining and Metallurgy Institute Bor, Zeleni bulevar 35, 19210 Bor, Serbia

17.45 – 18.00 Effects of sulphur hexafluoride cold plasma hydrophobization on the polyoxymethylene surface

Michał Chodkowski¹, Zoltan Károly², Szilvia Klébert², Konrad Terpilowski¹

¹Department of Interfacial Phenomena, Institute of Chemical Sciences, Faculty of Chemistry, Maria Curie-Skłodowska University in Lublin (UMCS), pl. Marii Curie-Skłodowskiej 3, 20-

031 Lublin, Poland, ²Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Magyar tudósok körútja 2, H-1117 Budapest, Hungary

Thursday, December 2, 2021

09.00 – 10.30 6th Session – Nanostructured Materials I

Chairpersons: Dr. Sonja Jovanović and Dr. Ivana Dinić

09.00 – 09.15 Effect of processing parameters on NaGdYF₄:Yb,Er UCNPs structural, morphological and optical properties

Ivana Dinić¹, Marina Vuković², Marko Nikolić³ and Lidija Mancić¹

¹*Institute of Technical Sciences of SASA, Belgrade, Serbia*, ²*Innovative Centre, Faculty of Chemistry Belgrade, University of Belgrade, Serbia*, ³*Photonic Center, Institute of Physics Belgrade, University of Belgrade, Serbia*

09.15 – 09.30 Electrochemical synthesis of silver nanoparticles in poly(vinyl alcohol)-based hydrogels and evaluation of their sizes by comparing experimental and simulated UV-visible spectra

Marko Opsenica, Katarina Nešović, Vesna Mišković-Stanković

University of Belgrade, Faculty of Technology and Metallurgy, Karnegijeva 4, Belgrade, Serbia

09.30 – 09.45 Radiation-chemical synthesis of antibacterial Ag-poly(vinyl alcohol)/poly(N-vinyl-2-pyrrolidone) nanocomposite hydrogels

Nikolina Nikolić, Jelena Spasojević, Aleksandra Radosavljević, Zorica Kačarević-Popović
Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia

09.45 – 10.00 Synthesis of nano-sized NiMn₂O₄ by glycine nitrate and electrospinning processes and its pseudocapacitive behavior

Milena Dojčinović¹, Zorka Ž. Vasiljević¹, Nenad Tadić², Jugoslav Krstić³, Smilja Marković⁴, Matiaž Spreitzer⁵, Janez Kovač⁵, Maria Vesna Nikolić¹

¹*University of Belgrade – Institute for Multidisciplinary Research, Belgrade, Serbia*,

²*University of Belgrade, Faculty of Physics, Belgrade, Serbia*, ³*University of Belgrade*,

IChTM, Belgrade, Serbia, ⁴*ITS of SASA, Belgrade, Serbia*, ⁵*Institute Jožef Štefan, Ljubljana, Slovenia*

10.00 – 10.15 Characterization of a new Yb³⁺/Er³⁺ doped SrGd₂O₄ up-conversion nanomaterial obtained via glycine-assisted combustion synthesis

Tijana Stamenković¹, Nadežda Radmilović¹, Marija Prekajski-Đorđević², Ivana Dinić³, Lidija Mančić³, Vesna Lojpur¹

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

²*Department of Materials, Vinča Institute of Nuclear Sciences, National Institute of the*

Republic of Serbia, P.O. Box 522, 11001 Belgrade, University of Belgrade, Serbia, ³Institute of Technical Science of SASA, Knez-Mihailova 35/4, Belgrade, Serbia

10.15 – 10.30 Improving the compatibility of zirconium oxide nanoparticles and styrene-free polyester resin by coupling with vinyl functionalized silane

Jelena D. Gržetić¹, Slavko Mijatov¹, Marica Bogosavljević¹, Tihomir Kovačević¹, Saša Brzić¹

Military Technical Institute, Ratka Resanovića 1, Belgrade, Serbia

10.30 – 10.45 Break

10.45 – 12.30 7th Session – Nanostructured Materials II
Chairpersons: Dr. Suzana Filipović and Željko Mravik

10.45 – 11.00 Graphene quantum dots with amino groups as a potential photoluminescent probe for Fe(III) ions

Sladana Dorončić¹, Olivera Marković², Duška Kleut¹ and Svetlana Jovanović¹

¹Vinča”-Institute of Nuclear sciences - National Institute of the Republic of Serbia, University of Belgrade P.O. Box 522, 11001 Belgrade, Serbia, ²University of Belgrade-Institute of Chemistry, Technology and Metallurgy, Department of Chemistry, Njegoševa 12, 11000 Belgrade, Republic of Serbia

11.00 – 11.15 Nanocomposite graphene oxide/silver nanowires: structural and morphological analysis

Aleksandra Mišović¹, Danica Bajuk Bogdanović², Milica Budimir¹ and Svetlana Jovanović¹

¹”Vinča” Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of Belgrade, 11000 Belgrade, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, 11158 Belgrade, Serbia

11.15 – 11.30 Investigation of the interaction of graphene oxide and 12-tungstophosphoric acid in aqueous suspensions

Milica Pejčić¹, Željko Mravik¹, Danica Bajuk-Bogdanović², Snežana Uskoković-Marković³, Bojana Nedić Vasiljević², Sonja Jovanović¹, Zoran Jovanović¹

¹Laboratory of Physics, Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, ³Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

11.30 – 11.45 Surface, structural and electric properties of ion beam irradiated graphene oxide papers

Željko Mravik¹, Marko Gloginjić¹, Danica Bajuk-Bogdanović², Maria Vesna Nikolić³, Andrej Olejniczak^{4,5}, Nemanja Gavrilov², Zoran Jovanović¹

¹*Center of Excellence for Hydrogen and Renewable Energy (CONVINCE), Laboratory of Physics, Vinča Institute of Nuclear Sciences, University of Belgrade, Belgrade, Serbia,*

²*Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia,* ³*Institute for Multidisciplinary Research, University of Belgrade, Serbia,* ⁴*Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, Dubna, Moscow region, Russia,*

⁵*Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland*

11.45 – 12.00 Hydrothermal synthesis and characterization of composite of graphene oxide and cobalt ferrite doped with zink and gallium

Marija Grujičić^{1,2}, Ivana Stojković Simatović¹, Danica Bajuk Bogdanović¹, Zoran Jovanović², Željko Mravik², Sonja Jovanović²

¹*Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia,* ²*“VINČA” Institute of Nuclear Sciences – National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia*

12.00 – 12.15 Hybrid functional porous polymers, based on phosphazene and cage-like siloxane building blocks

Mikhail Soldatov¹, Anna Chernysheva¹, Hongzhi Liu², Sergei Kostjuk³

¹*D. Mendeleev University of Chemical Technology of Russia, Moscow, Russian Federation,* ²*Shandong University, Jinan, People Republic of China,* ³*Belarussian State University, Minsk, Republic of Belarus*

12.15 – 12.30 Recent Progress of Carbon Dots in Nanomedicine and Photocatalysis

Yiqun Zhou and Roger M. Leblanc
University of Miami, USA

12.30 – 13.45 Lunch break

13.45 – 15.00 8th Session – Theoretical Modeling of Materials I
Chairpersons: Dr. Miloš Milović and Marko Jelić

13.45 – 14.00 Structural, spectroscopic and quantum-chemical investigation of testosterone propionate

Nikola Ristivojević, Dušan Dimić

University of Belgrade-Faculty of Physical Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

14.00 – 14.15 Spectroscopic and theoretic analysis of hydrocortisone – forensic aspects

Andjela Gavran, Dusan Dimic

University of Belgrade-Faculty of Physical Chemistry, Studentski trg 12-16, 11000 Belgrade, Serbia

14.15 – 14.30 The role of defects in graphene for removal of toxic compounds – Theoretical analysis

Marko Jelić^{1,2}, Aleksandar Jovanović¹, Igor Pašti¹

¹*Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, 2Laboratory of Physics, Vinča Institute of Nuclear Sciences – National Institute of the Republic of Serbia, University of Belgrade, Belgrade, Serbia*

14.30 – 14.45 A DFT study of the influence of chemical environment and boron concentration in boron-doped graphene on its reactivity

Milica S. Ritopečki, Ana S. Dobrota

University of Belgrade, Faculty of Physical Chemistry, Belgrade, Serbia

14.45 – 15.00 Significant modulation of charge-transfer states properties in the biological assembly of the d(TG₄T) sequence in crystal form

Branislav Milovanović, Milena Petković, Mihajlo Etinski

University of Belgrade, Faculty of Physical Chemistry, Belgrade, Serbia

15.00 – 15.15 Break

**15.15 – 16.45 9th Session – Theoretical Modeling of Materials II
Chairpersons: Dr. Marko Opačić and Jovana Vlahović**

15.15 – 15.30 Nitrogen-doped graphene nanoribbons: DFT prospects for Al-ion battery application

Jovana Vlahović^{1,2}, Ana S. Dobrota¹, Natalia V. Skorodumova^{3,4}, Igor A. Pašti^{1,3}

¹*University of Belgrade, Faculty of Physical Chemistry, Belgrade, Serbia, 2University of Belgrade, Vinča Institute of Nuclear Sciences, Laboratory of Physics, Belgrade, Serbia, 3KTH-Royal Institute of Technology, School of Industrial Engineering and Management, Department of Materials Science and Engineering, Brinellvägen 23, Stockholm, 100 44, Sweden, 4Uppsala University, Department of Physics and Astronomy, Box 516, 751 20 Uppsala, Sweden*

15.30 – 15.45 The possibility of achieving bound states in complex periodic potential of the Kronig-Penney type

Jovana Obradović, Jelena Radovanović, Vitomir Milanović

School of Electrical Engineering, University of Belgrade, Bulevar kralja Aleksandra 73, 11120 Belgrade, Serbia

15.45 – 16.00 Comparison of numerical methods for solving the effective mass Schrödinger equation for multilayer heterostructure applications

Novak Stanojević, Jelena Radovanović, Vitomir Milanović

*School of Electrical Engineering, University of Belgrade, Bulevar kralja Aleksandra 73,
11120 Belgrade, Serbia*

16.00 – 16.15 Construction of Symmetry-adapted k.p Hamiltonians for semiconductor nanostructures

Milan Jocić, Nenad Vukmirović

*Institute of Physics Belgrade, University of Belgrade, Pregrevica 118, 11080 Belgrade,
Serbia*

16.15 – 16.30 Application of nanomaterials in mechanical engineering

Dorđe Jovanović¹, Mladen Krstić², Branislav Milenković³

*¹Mathematical institute of SASA, Kneza Mihaila 36, 11000, Belgrade, Department of
Computer Science, ²Faculty of Mechanical and Civil Engineering, Dositejeva 19, 36000,
Kraljevo, Department of Mechanical Engineering, Faculty of Applied Science, Dušana
Popovića 22a, 18000, Niš, Department of Mechanical Engineering*

**16.30 – 16.45 Numerical study of coupled heat and moisture transfer in a finite wall:
effect of wall material on transfer properties**

Zahreddine Hafsi

*Laboratory of Applied Fluids Mechanics Process and Environment Engineering, National
Engineering School of Sfax, University of Sfax, Sfax 3038, Tunisia*

Friday, December 3, 2021

09.00 – 10.30 10th Session – Materials for High-technology Application I
Chairpersons: Dr. Dragana Jugović and Dr. Milica Vasić

09.00 – 09.15 Simply prepared Mg-V-O as potential cathode material for rechargeable aqueous magnesium ion batteries

Milica M. Vasić¹, Miloš Milović², Danica Bajuk Bogdanović¹, Milica Vujković¹

¹University of Belgrade - Faculty of Physical Chemistry, Belgrade, Serbia, ²Institute of Technical Sciences of SASA, Belgrade, Serbia

09.15 – 09.30 Layered CaV₂O₆ as promising electrode material for multivalent storage

Tamara Petrović¹, Miloš Milović², Danica Bajuk-Bogdanović¹, Milica Vujković¹

¹Faculty of Physical Chemistry, University of Belgrade, Belgrade, Serbia, ²Institute of Technical Sciences of SASA, Belgrade, Serbia

09.30 – 09.45 Wearable Graphene Sensor for Pulse Measurement

Teodora Vićentić¹, Milena Rašljajić Rafajilović¹, Bojana Koteska², Ana Madevska Bogdanova², Igor Pašti³ and Marko Spasenović¹

¹Center for Microelectronic Technologies, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Serbia, ²Faculty of Computer Science and Engineering, "Ss. Cyril and Methodius" University of Skopje, North Macedonia, ³Faculty of Physical Chemistry, University of Belgrade, Serbia

09.45 – 10.00 Oxygen sensor based on mechanochemically treated metal oxide semiconducting TiO₂-CeO₂ mixture

Jelena N. Stevanović¹, Srđan Petrović¹, Dana Vasiljević-Radović¹, Katarina Cvetanović¹, Nenad Tadić², Lazar Rakočević³, Milija Sarajlić¹

¹Institute of Chemistry, Technology and Metallurgy, Njegoševa 12, University of Belgrade, Belgrade, ²Faculty of Physics, Cara Dušana 13, University of Belgrade, Belgrade, ³Vinča Institute of Nuclear Science, Mike Petrovića Street 12-14, University of Belgrade, Belgrade

10.00 – 10.15 Improving the electrocatalytic activity of nickel for HER in alkaline media by galvanic exchange with rhodium

Lazar Bijelić, Aleksandar Jovanović, Igor Pašti

University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia

10.15 – 10.30 Hydrogen evolution on graphene supported PtAu nanoparticles

Lazar Rakočević¹, Ivana Stojković-Simatović², Aleksandar Maksić¹, Vladimir Rajić¹, Svetlana Štrbac³, Irina Srejić¹

¹INN Vinca, Laboratory of Atomic Physics, University of Belgrade, Serbia, Mike Alasa 12-14, 11001 Belgrade, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, Serbia,

Studentski trg 12-16, 11158 Beograd, Serbia, ³Institute of Chemistry, Technology and Metallurgy, Department of Electrochemistry, University of Belgrade, Njegoševa 12, 11000 Belgrade, Serbia

10.30 – 10.45 Break

10.45 – 12.15 11th Session – Materials for High-technology Application II Chairpersons: Dr. Zoran Jovanović and Vladimir Terek

10.45 – 11.00 Electrochemical deposition for advanced engineering of novel electrocatalytic interfaces

Aleksandar Z. Jovanović¹, Sanjin J. Gutić², Lidija Rafailović³, Igor A. Pašti¹

¹University of Belgrade – Faculty of Physical Chemistry, Belgrade, Serbia, ²University of Sarajevo, Faculty of Science, Department of Chemistry, Sarajevo, Bosnia and Herzegovina, ³CEST, Centre of Electrochemical Surface Technology, Wr. Neustadt, Austria

11.00 – 11.15 Effect of different cobalt loadings on the electrochemical performance of aluminum pillared clay-supported cobalt towards glucose oxidation

Biljana Milovanović, Tihana Mudrinić, Sanja Marinović, Marija Ajduković, Aleksandra Milutinović-Nikolić, Predrag Banković

University of Belgrade - Institute of Chemistry, Technology and Metallurgy, National Institute of the Republic of Serbia, Department of Catalysis and Chemical Engineering, Njegoševa 12, Belgrade, Serbia

11.15 – 11.30 Synthesis and characterization of new dysprosium doped phosphate-tungsten bronze

Tijana Maksimović¹, Jelena Maksimović², Pavle Tančić³, Ljubinka Joksović¹, Maja Pagnacco⁴, Zoran Nedić²

¹Faculty of Science, Department of Chemistry, University of Kragujevac, Radoja Domanovića 12, 34000 Kragujevac, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, Studentski trg 12-16, 11001 Belgrade, Serbia, ³Geological Survey of Serbia, Rovinjska 12, 11000 Belgrade, Serbia, ⁴Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Njegoševa 12, 11000 Belgrade, Serbia

11.30 – 11.45 Novel PAN-based Air Filters for Potential Applications in Industrial Air Filtering and Facemask Production

Mihailo Mirković¹, Dušica Stojanović¹, Daniel Mijailović², Nemanja Barać², Đorđe Janačković¹, Petar Uskoković¹

¹University of Belgrade, Faculty of Technology and Metallurgy, Karnegijeva 4, 11120 Belgrade, Serbia, ²Innovation Center of Faculty of Technology and Metallurgy in Belgrade Ltd., Karnegijeva 4, 11120 Belgrade, Serbia

11.45 – 12.00 High temperature tribological testings of TiAlN coating

Vladimir Terek¹, Lazar Kovačević¹, Aleksandar Miletić², Branko Škorić¹, Aljaž Drnovšek³, Zoran Bobić¹, Pal Terek¹

¹University of Novi Sad, Faculty of Technical Sciences, Department of Production Engineering, Novi Sad, Serbia, ²Polytechnique Montreal, Department of Engineering Physics, Quebec, Canada, ³Jožef Stefan Institute, Department of Thin Films and Surfaces Ljubljana, Slovenia

12.00 – 12.15 Effects of corrosion on NiTi caused by fluoride and chloride media in non-accelerated corrosion tests

Zoran Bobić¹, Bojan Petrović², Sanja Kojić¹, Vladimir Terek¹, Lazar Kovačević¹, Goran Stojanović¹, Branko Škorić¹, Pal Terek¹

¹University of Novi Sad, Faculty of Technical Sciences, Department of production Engineering, Novi Sad, Serbia, ²University of Novi Sad, Faculty of Medicine, Novi Sad, Serbia

12.15 – 13.15 Lunch break

**13.15 – 14.45 12th Session – Materials for High-technology Application III
Chairpersons: Prof. Dr. Ljiljana Damjanović-Vasilić and S. Djurdjić Mijin**

13.15 – 13.30 Raman Spectroscopy of Quasi-two-dimensional transition metal trihalides
S. Djurdjić Mijin¹, AM Milinda Abeykoon², A. Solajić¹, A. Milosavljević¹, J. Pešić¹, M. Šćepanović¹, Y. Liu³, A. Baum^{4,5}, C. Petrović³, N. Lazarević³, Z. V Popović^{1,6}

¹Center for Solid State Physics and New Materials, Institute of Physics Belgrade, University of Belgrade, Pregrevica 118, 11080 Belgrade, Serbia, ²National Synchrotron Light Source II, Brookhaven National Laboratory, Upton, New York 11973, ³Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory, Upton, New York 11973-5000, United States, ⁴Walther Meissner Institut, Bayerische Akademie der Wissenschaften, 85748 Garching, Germany, ⁵Fakultat für Physik E23, Technische Universität München, 85748 Garching, Germany, ⁶Serbian Academy of Sciences and Arts, Knez Mihailova 35, 11000 Belgrade, Serbia

13.30 – 13.45 Finishing of polyamide fabric with some boron compounds

Milena Nikodijević, Čedomir Dimić, Ivana Petrović, Dragan Đorđević
Faculty of Technology, University of Niš

13.45 – 14.00 Zeolite-containing photocatalysts immobilized on aluminum support by plasma electrolytic oxidation

Kristina Mojsilović¹, Nikola Božović^{1,2}, Srna Stojanović³, Ljiljana Damjanović-Vasilić³, Maria Serdechnova⁴, Carsten Blawert⁴, Mikhail L. Zheludkevich^{4,5}, Stevan Stojadinović¹, Rastko Vasilić¹

¹Faculty of Physics, University Of Belgrade, Studentski trg 12-16, Belgrade 11000, Serbia,

²Directorate of Measures and Precious Metals, Mike Alasa 14, Belgrade 11000, Serbia,

³Faculty of Physical Chemistry, University of Belgrade, Studentski trg 12-16, Belgrade

11000, Serbia, ⁴Institute of Surface Science, Hemholtz-Zentrum Hereon, Max-Planck-Straße

1, Geesthacht 21502, Germany, ⁵Institute of Materials Science, Faculty of Engineering, Kiel University, Kaiserstraße 2, Kiel 24143, Germany

14.00 – 14.15 Obtaining of healthcare textiles based on viscose fabric with improved sorption properties

Matea Korica¹, Zdenka Peršin², Lidija Fras-Zemljic², Mirjana Kostic³

¹Innovation Center of Faculty of Technology and Metallurgy, University of Belgrade, Serbia,

²Institute of Engineering Materials and Design, Faculty of Mechanical Engineering,

University of Maribor, Slovenia, ³Faculty of Technology and Metallurgy, University of Belgrade, Serbia

14.15 – 14.30 Lattice dynamics and magnetism in Fe_{3-x}GeTe₂

Ana Milosavljević¹, Andrijana Šolajić¹, Sanja Đurđić Mijin¹, Jelena Pešić¹, Bojana Višić¹,

Yu Liu², Cedomir Petrovic², Zoran V. Popović^{1,3}, Nenad Lazarević¹

¹Institute of Physics Belgrade, University of Belgrade, Pregrevica 118, 11080 Belgrade,

Serbia, ²Condensed Matter Physics and Materials Science Department, Brookhaven

National Laboratory, Upton, New York 11973-5000, USA, ³Serbian Academy of Sciences and Arts, Knez Mihailova 35, 11000 Belgrade, Serbia

14.30 – 14.45 Design of a pump for shipping crude oil from an oil terminal in Cameroon

Lotin Thierry, Bella Marie

University of Douala, Faculty of sciences P.O. Box 245 Douala, Cameroon

14.45 – 15.00 Break

15.00 – 16.45 13th Session – New Synthesis and Processing Methods and Materials for New Generation Solar Cells

Chairpersons: Prof. Dr. Ivana Stojković Simatović and Jelena Mitrić

15.00 – 15.15 Application of supercritical carbon dioxide for making perovskite photodiode

Milica Stefanović¹, Rada Petrović², Ivana Lukić², Jelena Vujančević³, Đorđe Janačković²

¹University of Belgrade, Innovation Center of Faculty of Technology and Metallurgy,

Belgrade, Serbia, ²University of Belgrade, Faculty of Technology and Metallurgy, Belgrade,

Serbia, ³Institute of Technical Sciences of SASA, Belgrade, Serbia

15.15 – 15.30 Optimisation of materials for enhancement of efficiency of Dye Sensitized Solar Cells

Evgenija Milinković¹, Katarina Cvetanović¹, Dana Vasiljević-Radović¹ and Dragomir Stanisavljević²

¹Centre of Microelectronic Technologies, Institute of Chemistry, Technology and Metallurgy, University of Belgrade, Njegoseva 12, 11060 Belgrade, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, Studentski trg 12-16, 11060 Belgrade, Serbia

15.30 – 15.45 Investigation of photo(electro)catalytic efficiency of BaTi_{1-x}Sn_x, ZnO and ZnO@BaTi_{1-x}Sn_x (x = 0, 0.05, 0.10) powders

Katarina Aleksić¹, Ivan Supić², Ivana Stojković Simatović², Ana Stanković¹, Smilja Marković¹

¹Institute of Technical Sciences of SASA, Belgrade, Serbia, ²Faculty of Physical Chemistry, University of Belgrade, Serbia

15.45 – 16.00 Thin film nanocomposites based on polyaniline and silver nanowires for optoelectronic applications

Jovan Lukić, Vuk V. Radmilović

Faculty of Technology and Metallurgy, University of Belgrade, Serbia

16.00 – 16.15 Surface phonons in YVO₄:Eu³⁺ nanopowders

J. Mitrić¹, N. Paunović¹, M. Mitrić³, J. Ćirković², M. Gilić¹, M. Romčević¹ and N. Romčević¹

¹Institute of Physics, University of Belgrade, Pregrevica 118, 11080 Belgrade, Serbia,

²Institute for Multidisciplinary Research, University of Belgrade, Kneza Višeslava 1a, 11030 Belgrade, Serbia, ³Institute Vinča, University of Belgrade, P.O. Box 522, 11001 Belgrade, Serbia

16.15 – 16.30 Hydrothermal synthesis of hydroxyapatite on calcium-enriched natural and synthetic zeolite as a carrier

Katarina Sokić¹, Đorđe Veljović¹, Jelena Dikić², Jovica Stojanović³, Danijela Smiljanić³, Sanja Jevtić¹

¹Faculty of Technology and Metallurgy, University of Belgrade, Serbia, ²Innovation centre of the Faculty of Technology and Metallurgy, University of Belgrade, Serbia, ³Institute for Technology of Nuclear and Other Mineral Raw Materials, University of Belgrade, Serbia

16.30 – 16.45 Synthesis of linear and star-shaped oligoimides by high-temperature catalytic polycondensation in a benzoic acid melt according to the Bn + AB scheme

A.E. Soldatova¹, A.Ya. Tsegelskaya¹, I. G. Abramov², A. Kh. Shakhnes³, O.V. Serushkina³, A. Herberg⁴, A.A. Kuznetsov¹

¹Enikolopov Institute of Synthetic Polymeric Materials, Moscow, Russia, ²Yaroslavl State Technical University, Yaroslavl, Russia, ³Zelinsky Institute of Organic Chemistry, Moscow, Russia, ⁴Paderborn University, Paderborn, Germany

16.50 Closing Ceremony

5-4

Europium-doped manganese tungstate for dual electrocatalytic activity

Andrej Kukuruzar¹, Slađana Savić¹, Filip Vlahović², Dalibor Stanković^{1,3}

¹*University of Belgrade, Faculty of Chemistry, Studentski trg 12-16, 11000, Beograd, Serbia,*

²*Innovation Center of the Faculty of Chemistry, University of Belgrade, Serbia,* ³*'VINČA'
Institute of Nuclear Sciences - National Institute of the Republic of Serbia, University of
Belgrade, Belgrade, Serbia*

Ethidium bromide (EthBr) is a fluorescent dye commonly used in molecular biology for visualization of DNA in electrophoresis gels. As EthBr intercalates nucleic acids, it is a potential human mutagen. Therefore, an efficient method for its removal would be beneficial to human and environmental safety.

Europium(III)-doped manganese tungstate was synthesized and characterized. The Eu-doped MnWO_4 and modified carbon paste electrodes (CPE) containing different amounts of this material were characterized. These electrodes were used for electrochemical determination and degradation of EthBr.

Firstly, EthBr was characterized electrochemically by cyclic voltammetry using a glassy carbon electrode and the different CPEs, at different conditions. Then, the optimal method for voltammetric EthBr determination using the modified CPE was investigated. It was found that SWV gives the best results.

Lastly, the material was applied to graphite rods as electrodes for electrochemical oxidative removal of EthBr from aqueous solution and the optimal parameters for the process were established. The resulting degradation products were determined. The devised method gave satisfying results for dye removal, with complete decolorization after 50 minutes of treatment.

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Aleksić, Katarina	katarina.aleksic96@gmail.com	72
Antanasković, Anja	anja.antanaskovic@yahoo.com	23
Bajuk Bogdanović, Danica		36, 37, 38, 39, 52, 53
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Bijelić, Lazar	20170032@student.ffh.bg.ac.rs	56
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Bogosavljević, Marica		34
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Božinović, Nevena	nevena.bozinovic@vin.bg.ac.rs	9
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Branislav, Milovanović	branislavm@ffh.bg.ac.rs	46
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Djordjić Mijin, S.	sanja@ipb.ac.rs	64
Dobrota, Ana S.		45, 47
Dojčinović, Milena	milena.p.dojcinovic@gmail.com	32
Dorontić, Slađana	sladjanaseatovic93@gmail.com	35
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Đurđić Mijin, Sanja	sanja@ipb.ac.rs	68
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Galić, Aleksa	aleksagalic99@gmail.com	15
Gavran, Andjela	andjela.gavran@gmail.com	43
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Grujičić, Marija	marijagrujicic64@gmail.com	39
Grujić, Bojana	bojana.grujic@aggf.unibl.org	22

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Gržetić, Jelena D.	jrusmirovic@tmf.bg.ac.rs	34
Gutić, Sanjin J.		58
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Jelić, Marko	marko.jelic@vinca.rs	44
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Jocić, Milan	mjocic@ipb.ac.rs	50
Joksović, Ljubinka		60
Jovanović, Aleksandar		44, 56
Jovanović, Aleksandar Z.	a.jovanovic@ffh.bg.ac.rs	58
Jovanović, Đorđe	bmilenkovic92@gmail.com	51
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Korica, Matea	mkorica@tmf.bg.ac.rs	67
Kostić, Marija	mkostic607@gmail.com	1
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Ładniak, Agata	agata.gozdecka@poczta.umcs.lublin.pl	5
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Matić, Tamara	tmatic@tmf.bg.ac.rs	13, 15
Medić Ilić, Mirjana		27
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Milanković, Vedran	milankovicvedran@gmail.com	21
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Milinković, Evgenija	evgenija@nanosys.ihtm.bg.ac.rs	71
Milivojević, Marija	mmilivojevic@tmf.bg.ac.rs	12
Milivojević, Milan		23
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Milojković, Jelena		23
Milosavljević, A.		64
Milosavljević, Ana	anam@ipb.ac.rs	68
Milovanović, Biljana	biljana.milovanovic@ihtm.bg.ac.rs	59
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Milović, Miloš		52, 53
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Mirković, Mihailo	mihailo.mirkovic17@gmail.com	61

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Mišović, Aleksandra	aleksandra.misovic@vin.bg.ac.rs	36
Mitić Čulafić, Dragana		4
Mitrić, Jelena	jmitric@ipb.ac.rs	74
Mitrić, Miodrag		74
Mladenović, Mihailo	mihailo.mladenovic99@gmail.com	25
Mojović, Miloš		2
Mojsilović, Kristina	kristina.mojsilovic@ff.bg.ac.rs	66
Mravik, Željko	mravik@vin.bg.ac.rs	37, 38, 39
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Nakarada, Đura	djura@ffh.bg.ac.rs	2
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Nikodijević, Milena	nikmilena94@gmail.com	65
Nikolic, Marko		29
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Nikolić, Nikolina	nnikolina@vin.bg.ac.rs	31
Novaković, Nikola		27
Novta, Evgenije	evgenije.novta@mf.uns.ac.rs	11
Obradovic, Jovana	jovanaobradovic988@gmail.com	48
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Pavlović, Stefan	stefan.pavlovic@ihm.bg.ac.rs	18
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Pejčić, Milica	pejcic97m@gmail.com	37
Peršin, Zdenka		67
Pešić, J.		64
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Petrovic, Jelena	jelenapetrovic.co@gmail.com	8
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Petrović, Tamara	tamara@ffh.bg.ac.rs	53
Podkościelna, Joanna	terpil@umcs.pl	17
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