

**ДЕКАНУ ПОЉОПРИВРЕДНОГ ФАКУЛТЕТА  
УНИВЕРЗИТЕТА У БЕОГРАДУ**

На основу члана 10. „Правилника о минималним условима за стицање звања наставника на Универзитету у Београду“ („Гласник Универзитета у Београду“ бр. 192/16, 195/16, 199/17, 203/18 и 223/21), подносим

**ИЗВЕШТАЈ О РАДУ РЕДОВНОГ ПРОФЕСОРА**

за период од 2016. до 2021. године

<b>Име и презиме</b>	Владимир Павловић
<b>Датум и место рођења</b>	12. 11. 1966. Београд
<b>Ужа научна област</b>	физика
<b>Институт за</b>	Институт за пољопривредну технику
<b>Катедра за</b>	Катедра за математику и физику
<b>Датум избора у звање редовног професора</b>	12. 5. 2012.

**БИБЛИОГРАФИЈА НАУЧНИХ И СТРУЧНИХ РАДОВА У ПРЕТХОДНОМ ПЕТОГОДИШЊЕМ ПЕРИОДУ** (Са ознаком врсте резултата, односно М категорија рада)

VLADIMIR PAVLOVIC  
REFERENCE 2016-2021

2017

**М<sub>13</sub>-Радови у тематским зборницима међународног значаја, Поглавље у истакнутој монографији међународног значаја**

1. Pavlović V.B., Vulićević Z., Pavlović V.P. (2017) Contemporary Dental Ceramics. In: Lee B., Gadow R., Mitic V. (eds) Proceedings of the IV Advanced Ceramics and Applications Conference. Atlantis Press, Paris 95-119
2. Pavlović, Vladimir B. and Pavlović, Vera P. (2021) "Polymer-Ceramic Nanocomposites and Converging Technologies", In: Brabazon, Dermot (ed), *Encyclopedia of Materials: Composites*, vol. 2, pp.134-144. Oxford: Elsevier, ISBN 9780128197318, doi: 10.1016/B978-0-12-803581-8.11856-9, <https://doi.org/10.1016/B978-0-12-803581-8.11856-9>

**Радови у врхунском међународном часопису М<sub>21а</sub>**

1. Kekez Branka D Gojgic-Cvijovic Gordana Dj Jakovljevic Dragica M Pavlovic Vladimir B Beskoski Vladimir P Popovic Aleksandar R Vrvic Miroslav M Nikolic Vladimir B Synthesis and characterization of a new type of levan-grafit copolymer CARBOHYDRATE POLYMERS, (2016), vol. 154 20-29
2. Carevic Milica V Abazovic Nadica D Novakovic Tatjana B Pavlovic V.B Comor Mirjana I Zirconium dioxide nanopowders with incorporated Si<sup>4+</sup> ions as efficient photocatalyst for degradation of trichlorophenol using simulated solar light APPLIED CATALYSIS B-ENVIRONMENTAL, (2016), vol. 195 112-120
3. Matijasevic Danka M Pantic Milena D Raskovic Bozidar Pavlovic Vladimir B Duvnjak Dunja Sknepnek Aleksandra Niksic Miomir P The Antibacterial Activity

of *Coriolus versicolor* Methanol Extract and Its Effect on Ultrastructural Changes of *Staphylococcus aureus* and *Salmonella Enteritidis* *Frontiers in Microbiology*, (2016), vol. 7 br. , 1226

4. Bjelajac Andjelika Z Petrovic Rada D Socol Gabriel Mihailescu Ion N Enculescu Monica Grurriezescu Valentina Pavlovic Vladimir B Janackovic Djordje T CdS quantum dots sensitized TiO<sub>2</sub> nanotubes by matrix assisted pulsed laser evaporation method *CERAMICS INTERNATIONAL*, (2016), vol. 42 br. 7, 9011-9017
5. Duvnjak Dunja Pantic Milena D Pavlovic Vladimir B Nedovic Viktor A Levic Steva Matijasevic Danka M Sknepnek Aleksandra Niksic Miomir P aa *Advances in in batch culture fermented Coriolus versicolor medicinal mushroom for the production of antibacterial compounds* *ti INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES*, (2016), vol. 34 br. , str. 1-8sevic Danka M
6. Obradovic Nina N Filipovic Suzana Z Djordjevic Natasa G Kosanovic Darko Markovic Smilja B Pavlovic Vladimir B Olcan Dragan I Djordjevic Antonije R Kachlik Martin Maca Karel *Effects of mechanical activation and two-step sintering on the structure and electrical properties of cordierite-based ceramics* *CERAMICS INTERNATIONAL*, (2016), vol. 42 br. 12, str. 13909-13918
7. Vujkovic Milica J Vidoeski Bojan A Jovanovic Svetlana P Bajuk-Bogdanovic Danica V Budimir Milica D Markovic Zoran MI Pavlovic Vladimir B Todorovic-Markovic Biljana M Holclajtner-Antunovic Ivanka D *Synthesis and Characterization of Electrochemically Exfoliated Graphene-Molybdophosphate Hybrid Materials for Charge Storage Devices* *ELECTROCHIMICA ACTA*, (2016), vol. 217 br. , str. 34-46
8. Rusmirovic Jelena D Trifkovic Kata T Bugarski Branko M Pavlovic VB Dzunuzovic Jasna V Tomic M Marinkovic Aleksandar D *High performance unsaturated polyester based nanocomposites: Effect of vinyl modified nanosilica on mechanical properties* *EXPRESS POLYMER LETTERS*, (2016), vol. 10 br. 2, str. 139-159
9. Malagurski Ivana S Levic Steva M Nesic Aleksandra R Mitric Miodrag N Pavlovic Vladimir Dimitrijevic-Brankovic Suzana I *Mineralized agar-based nanocomposite films: Potential food packaging materials with antimicrobial properties* *CARBOHYDRATE POLYMERS*, (2017), vol. 175, 55-62
10. Malagurski Ivana S Levic Steva M Pantic Milena D Matijasevic Danka M Mitric Miodrag N Pavlovic Vladimir Dimitrijevic-Brankovic Suzana I *Synthesis and antimicrobial properties of Zn-mineralized alginate nanocomposites* *CARBOHYDRATE POLYMERS*, (2017), vol. 165, 313-321
11. Rusmirovic Jelena D Ivanovic Jasna Z Pavlovic Vladimir B Rakic Vesna M Rancic Milica P Djokic Veljko R Marinkovic Aleksandar D *Novel modified nanocellulose applicable as reinforcement in high-performance nanocomposites* *CARBOHYDRATE POLYMERS*, (2017), vol. 164, 64-74
12. Terzic Anja M Obradovic Nina N Stojanovic Jovica N Pavlovic Vladimir B Andric Ljubisa D Olcan Dragan I Djordjevic Antonije R *Influence of different bonding and fluxing agents on the sintering behavior and dielectric properties of steatite ceramic materials* *CERAMICS INTERNATIONAL*, (2017), vol. 43 16, 13264-13275
13. Kljajevic Ljiljana M Nenadovic Snezana S Nenadovic Milos T Bundaleski Nenad K Todorovic Bratislav Z Pavlovic Vladimir B Rakocevic Zlatko Lj *Structural and chemical properties of thermally treated geopolymer samples* *CERAMICS INTERNATIONAL*, (2017), vol. 43 9, 6700-6708
14. Terzic Anja M Pezo Lato L Andric Ljubisa D Pavlovic Vladimir B Mitic Vojislav V *Optimization of bentonite clay mechano-chemical activation using artificial neural network modeling* *CERAMICS INTERNATIONAL*, (2017), vol. 43 2, 2549-2562
15. Obradovic Nina N Filipovic Suzana Z Markovic Smilja B Mitric Miodrag N Rusmirovic Jelena D Marinkovic Aleksandar B Antic Vesna V Pavlovic Vladimir B *Influence of different pore-forming agents on wollastonite microstructures and adsorption capacities* *CERAMICS INTERNATIONAL*, (2017), vol. 43 10, 7461-7468

16. Grkovic Mirjana Stojanovic Dusica B Pavlovic Vladimir B Rajilic-Stojanovic Mirjana D Bjelovic Milos Uskokovic Petar S Improvement of mechanical properties and antibacterial activity of crosslinked electrospun chitosan/poly (ethylene oxide) nanofibers COMPOSITES PART B-ENGINEERING, (2017), vol. 121, 58-67
17. Filipovic Suzana Z Pavlovic Vera P Obradovic Nina N Paunovic Vesna V Maca K Pavlovic VB The impedance analysis of sintered MgTiO<sub>3</sub> ceramics JOURNAL OF ALLOYS AND COMPOUNDS, (2017), vol. 701, 107-115
18. Markovic Bojana M Vukovic Zorica M Spasojevic Vojislav V Kusigerski Vladan B Pavlovic Vladimir B Onjia Antonije E Nastasovic Aleksandra B Selective magnetic GMA based potential sorbents for molybdenum and rhenium sorption JOURNAL OF ALLOYS AND COMPOUNDS, (2017), vol. 705, 38-50
19. Zivojinovic Jelena A Pavlovic Vera P Kosanovic Darko Markovic Smilja B Krstic Jugoslav B Blagojevic Vladimir A Pavlovic Vladimir B The influence of mechanical activation on structural evolution of nanocrystalline SrTiO<sub>3</sub> powders JOURNAL OF ALLOYS AND COMPOUNDS, (2017), vol. 695, 863-870
20. D. Kosanović, V. A. Blagojević, A. Maričić, S. Aleksić, V. P. Pavlović, V. B. Pavlović, B. Vlahović, Influence of mechanical activation on functional properties of barium hexaferrite ceramics, *Ceramics International*, 44 (6) (2018) 6666-6672.
21. Maria Vesna Nikolic, Zorka Vasiljevic, Miroljub D. Lukovic, Vera P. Pavlovic, Jelena Vujancevic, Milan Radovanovic, Jugoslav B. Krstic, Branislav Vlahovic, Vladimir B. Pavlovic, "Humidity sensing properties of nanocrystalline pseudobrookite (Fe<sub>2</sub>TiO<sub>5</sub>) based thick films", *Sensors and Actuators B: Chemical*, 277 (2018) 654-664. <https://doi.org/10.1016/j.snb.2018.09.063>
22. Radovan Dojčilović, Jelena D Pajović, Dušan K Božanić, Nataša Jović, Vera P Pavlović, Vladimir B Pavlović, Lea Lenhardt Acković, Ivana Zeković, Miroslav Dramićanin, Slavka Kaščaková, Matthieu Réfrégiers, Goran Rašić, Branislav Vlahović, Vladimir Djoković DUV fluorescence bioimaging study of the interaction of partially reduced graphene oxide and liver cancer cells *2D Materials* 5(4),045019 2018
23. P. B. Petrovic, V. B. Pavlovic, B. Vlahovic, V. Mijailovic, "A high-sensitive current-mode pressure/force detector based on piezoelectric polymer PVDF", *Sensors and Actuators: A*, 276 (2018) 165–175, DOI: 10.1016/j.sna.2018.04.014
24. Dostanic Jasmina M Loncarevic Davor R Pavlovic Vladimir B Papan Jelena M Nedeljkovic Jovan M Efficient photocatalytic hydrogen production over titanate/titania nanostructures modified with nickel CERAMICS INTERNATIONAL, (2019), vol. 45 br. 15, str. 19447-19455
25. Pavlovic Vera P Vujancevic Jelena D Maskovic Pavle Z Cirkovic Jovana Papan Jelena Kosanovic Darko A Dramicanin Miroslav D Petrovic Predrag B Vlahovic Branislav Pavlovic Vladimir B Structure and enhanced antimicrobial activity of mechanically activated nano TiO<sub>2</sub> JOURNAL OF THE AMERICAN CERAMIC SOCIETY, (2019) Volume102, Issue12 7735-7745
26. Jeremic Sanja Djokic Lidija S Ajdacic Vladimir Bozinovic Nina S Pavlovic Vladimir B Manojlovic Dragan D Babu Ramesh Padamati Senthamarai kannan Ramsankar Rojas Orlando Opsenica Igor M Nikodinovic-Runic Jasmina Production of bacterial nanocellulose (BNC) and its application as a solid support in transition metal catalysed cross-coupling reactions INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, (2019), vol. 129 br. , str. 351-360
27. Tomic Milos D Dunjic Branko M Nikolic Marija S Trifkovic Kata T Stankovic Nadezda G Pavlovic Vladimir B Bajat Jelena B Djonlagic Jasna A Polyamidoamine as a clay modifier and curing agent in preparation of epoxy nanocomposites PROGRESS IN ORGANIC COATINGS, (2019), vol. 131 br. , str. 311-321
28. Obradovic Nina N Fahrenholtz WG Filipovic Suzana Z Kosanovic Darko A Dapcevic Aleksandra Djordjevic Antonije R Balac Igor M Pavlovic Vladimir B

- The effect of mechanical activation on synthesis and properties of MgAl<sub>2</sub>O<sub>4</sub> ceramics CERAMICS INTERNATIONAL, (2019), vol. 45 br. 9, str. 12015-12021
29. Terzic Anja M Obradovic Nina N Kosanovic Darko A Stojanovic Jovica N Djordjevic Antonije R Andric Ljubisa D Pavlovic Vladimir B Effects of mechanical-activation and TiO<sub>2</sub> addition on the behavior of two-step sintered steatite ceramics CERAMICS INTERNATIONAL, (2019), vol. 45 br. 3, str. 3013-3022
  30. Andjelkovic Ljubica D, Jeremic Dejan A, Milenkovic Milica R, Radosavljevic Jelena, Vulic Predrag J, Pavlovic Vladimir B, Manojlovic Dragan D, Nikolic Aleksandar S Synthesis, characterization and in vitro evaluation of divalent ion release from stable NiFe<sub>2</sub>O<sub>4</sub>, ZnFe<sub>2</sub>O<sub>4</sub> and core-shell ZnFe<sub>2</sub>O<sub>4</sub> NiFe<sub>2</sub>O<sub>4</sub> nanoparticles CERAMICS INTERNATIONAL, (2020), vol. 46 br. 3, str. 3528-3533
  31. Kepic Dejan P Kleut Duska N Markovic Zoran MI Bajuk-Bogdanovic Danica V Pavlovic Vladimir B Krmpot Aleksandar J Lekic Marina M Jovanovic Dragana J Todorovic-Markovic Biljana M One-step preparation of gold nanoparticles - exfoliated graphene composite by gamma irradiation at low doses for photothermal therapy applications MATERIALS CHARACTERIZATION, (2021), vol. 173

### **M<sub>21</sub> -Радови у врхунском међународном часопису M21**

1. Stefanovic Ivan S Spirkova Milena Ostojic Sanja B Stefanov Plamen Pavlovic Vladimir B Pergal Marija V Montmorillonite/poly(urethane-siloxane) nanocomposites: Morphological, thermal, mechanical and surface properties APPLIED CLAY SCIENCE, (2017), vol. 149, 136-146
2. Markovic Zoran MI Matijasevic Danka M Pavlovic Vladimir B Jovanovic Svetlana P Holclajtner-Antunovic Ivanka D Spitalsky Zdenko Micusik Matej Dramicanin Miroslav D Milivojevic Dusan D Niksic Miomir P Todorovic-Markovic Biljana M Antibacterial potential of electrochemically exfoliated graphene sheets JOURNAL OF COLLOID AND INTERFACE SCIENCE, (2017), vol. 500, 30-43
3. Kostic Aleksandar Z Macukanovic-Jocic Marina P Spirovic-Trifunovic Bojana D Vukasinovic Ivana Z Pavlovic Vladimir B Pesic Mirjana B Fatty acids of maize pollen - Quantification, nutritional and morphological evaluation JOURNAL OF CEREAL SCIENCE, (2017), vol. 77, 180-185
4. J. Rusmirović, M. Rančić, V. Pavlović, V. Rakić, S. Stevanović, J. Djonlagić, A. Marinković, Cross-linkable modified nanocellulose/polyester resin based composites: Effect of unsaturated fatty acid nanocellulose modification on material performances, Macromolecular Materials and Engineering, (2018), 303, 1700648, DOI:10.1002/mame.201700648, ISSN: 1438-7492,
5. Djordjevic Aleksandar N Sojic-Merkulov Daniela V Lazarevic Marina J Borisev Ivana Medic Igor S Pavlovic Vladimir B Miljevic Bojan B Abramovic Biljana F Enhancement of nano titanium dioxide coatings by fullerene and polyhydroxy fullerene in the photocatalytic degradation of the herbicide mesotrione CHEMOSPHERE, (2018), vol. 196 br. , str. 145-152
6. Tomic Milos D Dunjic Branko M Nikolic Marija S Maletaskic Jelena Pavlovic Vladimir B Bajat Jelena B Djonlagic Jasna A Dispersion efficiency of montmorillonites in epoxy nanocomposites using solution intercalation and direct mixing methods APPLIED CLAY SCIENCE, (2018), vol. 154 br. , str. 52-63
7. Obradovic Nina N Blagojevic Vladimir A Filipovic Suzana Z Djordjevic Natasa G Kosanovic Darko A Markovic Smilja B Kachlik Martin Maca Karel Pavlovic Vladimir B Kinetics of thermally activated processes in cordierite-based ceramics JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, (2019), vol. 138 br. 5, str. 2989-2998
8. Filipovic Suzana Z Obradovic Nina N Markovic Smilja B Mitric Miodrag N Balac Igor M Djordjevic A Pavlovic Vladimir B The effect of ball milling on properties of sintered manganese-doped alumina ADVANCED POWDER TECHNOLOGY, (2019), vol. 30 No 11, 2533-2540

9. Radovanovic Neda R Malagurski Ivana S Levic Steva M Nestic Aleksandra R Cabrera-Barjas Gustavo Kalusevic Ana M Nedovic Viktor A Pavlovic Vladimir B Dimitrijevic-Brankovic Suzana I Influence of different concentrations of Zn-carbonate phase on physical-chemical properties of antimicrobial agar composite films MATERIALS LETTERS, (2019), vol. 255 126572
10. Radovanovic Neda R Malagurski Ivana S Levic Steva M Gordic Milan V Petrovic Jelena Pavlovic Vladimir B Mitric Miodrag N Nestic Aleksandra R Dimitrijevic-Brankovic Suzana I Tailoring the physico-chemical and antimicrobial properties of agar-based films by in situ formation of Cu-mineral phase EUROPEAN POLYMER JOURNAL, (2019), vol. 119 br. , str. 352-358
11. Filipovic Suzana Z Pavlovic Vera P Mitric Miodrag N Levic Steva M Mitrovic Nebojsa S Maricic Aleksa M Vlahovic Branislav Pavlovic Vladimir B Synthesis and characterization of BaTiO<sub>3</sub>/-Fe<sub>2</sub>O<sub>3</sub> core/shell structure JOURNAL OF ADVANCED CERAMICS, (2019), vol. 8 br. 1, str. 133-147
12. Markovic Zoran MI Jovanovic Svetlana P Maskovic Pavle Z Mojsin Marija M Stevanovic Milena J Danko Martin Micusik Matej Jovanovic Dragana Angela Kleinová, Zdeno Špitalský, Vladimir B. Pavlović, Biljana M. Todorović Marković Graphene oxide size and structure pro-oxidant and antioxidant activity and photoinduced cytotoxicity relation on three cancer cell lines JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, (2019), vol. 200 2019, 111647
13. Miloradovic Zorana N, Kljajevic Nemanja, V Miocinovic Jelena B, Levic Steva M, Pavlovic Vladimir B, Blazic Marijana Pudja Predrag Rheology and Microstructures of Rennet Gels from Differently Heated Goat Milk, FOODS, (2020), vol. 9 . 3 (M21)
14. Despotovic Sanja, Z Milicevic Djordje N, Krmpot Aleksandar J, Pavlovic Aleksandra M, Zivanovic Vladimir D Krivokapic, Zoran V, Pavlovic Vladimir B, Levic Steva M, Nikolic Gorana V Rabasovic Mihailo D Altered organization of collagen fibers in the uninvolved human colon mucosa 10 cm and 20 cm away from the malignant tumor SCIENTIFIC REPORTS, (2020), vol. 10 1 (M21)
15. Jovanovic Svetlana P, Syrgiannis Zois, Budimir Milica D, Milivojevic Dusan D, Jovanovic Dragana J, Pavlovic Vladimir B, Papan Jelena M, Bartenwerfer Malte, Mojsin Marija M, Stevanovic Milena J, Todorovic-Markovic Biljana M, Graphene quantum dots as singlet oxygen producer or radical quencher The matter of functionalization with urea/thiourea MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, (2020), vol. 109 (M21)
16. Rac Vladislav A , Rakic Vesna M, Stosic Dusan, Pavlovic Vladimir B, Bosnar Sanja, Enhanced accessibility of active sites in hierarchical ZSM-5 zeolite for removal of pharmaceutically active substances: Adsorption and microcalorimetric study, ARABIAN JOURNAL OF CHEMISTRY, (2020), vol. 13 br. 1, str. 1945-1954
17. Nikolic Milan P Pavlovic Vladimir B Stanojevic-Nikolic Slobodanka Srdic Vladimir V Enzyme immobilization using two processing methods onto silica core-shell particles BOLETIN DE LA SOCIEDAD ESPANOLA DE CERAMICA Y VIDRIO, (2021), vol. 60 4, 243-254 (M21)
18. Pavlovic Vera P Tomic Dragana D Dojcilovic Radovan J Dudic Dusko Dramicanin Miroslav D Medic Mina M McPherson Michael M Pavlovic Vladimir B Vlahovic Branislav Djokovic Vladimir A PVDF-HFP/NKBT composite dielectrics: Perovskite particles induce the appearance of an additional dielectric relaxation process in ferroelectric polymer matrix POLYMER TESTING, (2021), vol. 96 (M21)
19. Miloradovic Zorana N Tomic Nikola S Kljajevic Nemanja V Levic Steva M Pavlovic Vladimir B Blazic Marijana Miocinovic Jelena B High Heat Treatment of Goat Cheese Milk. The Effect on Sensory Profile, Consumer Acceptance and Microstructure of Cheese FOODS, (2021), vol. 10 5, (M21)

20. Zmejkoski Danica Z Markovic Zoran MI Budimir Milica D Zdravkovic Nemanja Trisic Dijana D Bugarova Nikol Danko Martin Kozyrovska Natalia O Spitalsky Zdeno Kleinova Angela Kuzman Sanja B Pavlovic Vladimir B Todorovic-Markovic Biljana M Photoactive and antioxidant nanochitosan dots/biocellulose hydrogels for wound healing treatment MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, (2021), vol. 122 M21
21. Nikolic Maria Vesna Labus Nebojsa J Pavlovic Vera P Markovic Smilja B Lukovic Miloljub D Tadic Nenad B Vujancevic Jelena D Vlahovic Branislav Pavlovic Vladimir B Nanocrystalline Zn<sub>2</sub>SnO<sub>4</sub>/SnO<sub>2</sub>: Crystal structure and humidity influence on complex impedance JOURNAL OF ELECTROCERAMICS, (2021), early access

#### **Рад у истакнутом часопису међународног значаја M22**

1. Markovic Zoran MI Budimir Milica D Kepic Dejan P Holclajtner-Antunovic Ivanka D Marinovic-Cincovic Milena T Dramicanin Miroslav D Spasojevic Vuk D Perusko Davor B Spitalsky Z Micusik M Pavlovic Vladimir B Todorovic-Markovic Biljana M Semi-transparent, conductive thin films of electrochemical exfoliated graphene (Article) RSC ADVANCES, (2016), vol. 6 br. 45, 39275-39283
2. Kosanovic Darko Obradovic Nina N Pavlovic Vera P Markovic Smilja B Maricic Aleksa M Rasic G Vlahovic B Pavlovic Vladimir B Ristic Momcilo M The influence of mechanical activation on the morphological changes of Fe/BaTiO<sub>3</sub> powder MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, (2016), vol. 212 br. , str. 89-95
3. N. R. Filipović, S. Bjelogrić, T. R. Todorović, V. Blagojević, C. D. Muller, A. Marinković, M. Vujčić, B. Janović, A. Malešević, N. Begović, M. Senčanski and D. Minić, Ni(II) complex with bishydrazone ligand: synthesis, characterization, DNA-binding studies and pro-apoptotic and pro-differentiation induction in human cancerous cell lines, RSC Advances (2016) 6, 108726-108740
4. Obradovic Nina N Djordjevic Natasa G Filipovic Suzana Z Markovic Smilja B Kosanovic Darko Mitric Miodrag N Pavlovic Vladimir B Reaction kinetics of mechanically activated cordierite-based ceramics studied via DTA JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, (2016), vol. 124 br. 2, str. 667-673
5. Momic Tatjana G Lazarevic-Pasti Tamara D Bogdanovic Una M Vodnik Vesna V Mrakovic Ana Dj Rakocevic Zlatko Lj Pavlovic Vladimir B Vasic Vesna M Adsorption of Organophosphate Pesticide Dimethoate on Gold Nanospheres and Nanorods JOURNAL OF NANOMATERIALS, (2016), Article ID 8910271
6. Obradovic Nina N Filipovic Suzana Z Djordjevic Natasa G Kosanovic Darko Pavlovic Vladimir B Olcan Dragan I Djordjevic Antonije R Kachlik Martin Maca Karel Microstructural and Electrical Properties of Cordierite-based Ceramics Obtained After Two-step Sintering Technique SCIENCE OF SINTERING, (2016), vol. 48 br. 2, str. 157-165
7. Prekodravac Jovana R Markovic Zoran MI Jovanovic Svetlana P Holclajtner-Antunovic Ivanka D Pavlovic Vladimir B Todorovic-Markovic Biljana M Raman spectroscopy study of graphene thin films synthesized from solid precursor OPTICAL AND QUANTUM ELECTRONICS, (2016), vol. 48 br. 2, 115
8. Nedeljkovic Borivoje Mitrovic Nebojsa S Orelj Jelena Obradovic Nina N Pavlovic Vladimir B Characterization of FeCoV Alloy Processed by PIM/MIM Route SCIENCE OF SINTERING, (2017), vol. 49 3, 299-309
9. Obradovic Nina N Filipovic Suzana Z Rusmirovic Jelena D Postole Georgeta Marinkovic Aleksandar B Radic Danka S Rakic Vesna M Pavlovic Vladimir B Auroux Aline Formation of Porous Wollastonite-based Ceramics after Sintering With Yeast as the Pore-forming Agent SCIENCE OF SINTERING, (2017), vol. 49 3, 235-246

10. Terzic Anja M Djordjevic Natasa G Mitric Miodrag N Markovic Smilja B Djordjevic Katarina Pavlovic Vladimir B Sintering of Fly Ash Based Composites with Zeolite and Bentonite Addition for Application in Construction Materials SCIENCE OF SINTERING, (2017), vol. 49 1,23-37
11. Kalusevic Ana M Levic Steva M Calija Bojan R Milic Jela R Pavlovic Vladimir B Bugarski Branko M Nedovic Viktor A Effects of different carrier materials on physicochemical properties of microencapsulated grape skin extract JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, (2017), vol. 54 11, 3411-3420
12. Brkovic Danijela V Pavlovic Vladimir B Pavlovic Vera P Obradovic Nina N Mitric Miodrag N Stevanovic Sanja I Vlahovic Branislav Uskokovic Petar S Marinkovic Aleksandar D Structural Properties of the Multiwall Carbon Nanotubes/Poly(Methyl Methacrylate) Nanocomposites: Effect of the Multiwall Carbon Nanotubes Covalent Functionalization POLYMER COMPOSITES, (2017), vol. 38 , Suppl. 1, E472-E489
13. Perusko Davor B Kovac Janez Petrovic Suzana M Obradovic Marko B Mitric Miodrag N Pavlovic Vladimir B Salatic Branislav Jaksa G Ciganovic Jovan Milosavljevic Milan M Selective Al-Ti reactivity in laser-processed Al/Ti multilayers MATERIALS AND MANUFACTURING PROCESSES, (2017), vol. 32 br. 14, str. 1622-1627
14. Kalusevic Ana M Levic Steva M Calija Bojan R Pantic Milena D Belovic Miona M Pavlovic Vladimir B Bugarski Branko M Milic Jela R Zilic Sladjana M Nedovic Viktor A Microencapsulation of anthocyanin-rich black soybean coat extract by spray drying using maltodextrin, gum Arabic and skimmed milk powder JOURNAL OF MICROENCAPSULATION, (2017), vol. 34 5,475-487
15. Markovic Zoran MI Kepic Dejan P Matijasevic Danka M Pavlovic Vladimir B Jovanovic Svetlana P Stankovic NK Milivojevic Dusan D Spitalsky Zdenko Holclajtner-Antunovic Ivanka D Bajuk-Bogdanovic Danica V Niksic Miomir P Todorovic-Markovic Biljana M Ambient light induced antibacterial action of curcumin/graphene nanomesh hybrids RSC ADVANCES, (2017), vol. 7 57, 36081-36092
16. Tasic Ana Rusmirovic Jelena D Nikolic Jovana Bozic Aleksandra Pavlovic Vladimir B Marinkovic Aleksandar D Uskokovic Petar S Effect of the vinyl modification of multi-walled carbon nanotubes on the performances of waste poly(ethylene terephthalate)-based nanocomposites JOURNAL OF COMPOSITE MATERIALS, (2017), vol. 51 br. 4, str. 491-505
17. Nikolic Maria Vesna Sekulic Dalibor L Vasiljevic Zorka Z Lukovic Miloljub D Pavlovic Vladimir B Aleksic Obrad S Dielectric properties, complex impedance and electrical conductivity of Fe<sub>2</sub>TiO<sub>5</sub> nanopowder compacts and bulk samples at elevated temperatures JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, (2017), vol. 28 6,4796-4806
18. Nenadovic Snezana S Kljajevic Ljiljana M Nestic Maja D Petkovic Marijana Z Trivunac Katarina V Pavlovic Vladimir B Structure analysis of geopolymers synthesized from clay originated from Serbia Environmental Earth Sciences, (2017), vol. 76 2
19. Antonije R. Đorđević, Dragan I. Olčan, Nina Obradović, Vesna Paunović, Suzana Filipović, Vladimir B. Pavlović, Electrical Properties of Magnesium Titanate Ceramics PostSintered by Hot Isostatic Pressing, Science of sintering, Vol 49, No.4, pp. 373-380, 2017 doi: <https://doi.org/10.2298/SOS1704373D> UDK 666.3.019, 546.824, 676.056.73
20. Zoran M. Marković, Svetlana P. Jovanović, Pavle Z. Mašković, Martin Danko, Matej Mičušík, Vladimir B. Pavlović, Dušan D. Milivojević, Angela Kleinová, Zdeno Špitalský, Biljana M. Todorović Marković: Photo-induced antibacterial activity of four graphene based nanomaterials on a wide range of bacteria. RSC Advances, ISSN: 2046-2069 09/2018; 8(55):31337-31347., DOI:10.1039/C8RA04664F
21. D. A. Kosanović, V. A. Blagojević, N. J. Labus, N. B. Tadić, V. B. Pavlović, M. M. Ristić, Effect of chemical composition on microstructural properties and sintering

- kinetics of (Ba,Sr)TiO<sub>3</sub> powders, *Science of Sintering*, 50 (1) (2018) 29-38.  
<https://doi.org/10.2298/SOS1801029K>. ISSN 0350-820X; IF: 0.736
22. Anja Terzić, Nina Obradović, Vaclav Pouchly, Jovica Stojanović, Karel Maca, Vladimir B. Pavlović, Microstructure and phase composition of steatite ceramics sintered by traditional and spark plasma sintering, *Science of Sintering* vol. 50 : no.3 (2018) pp. 299-312 DOI: <https://doi.org/10.2298/SOS1803299T> UDK 666.3.019; 622.785 Publisher: International Institute for the Science of Sintering, Beograd ISSN: 0350-820X, eISSN: 1820-7413 Link: <http://www.iiss.sanu.ac.rs/> , <http://www.iiss.sanu.ac.rs/journal.htm>
  23. Nina Obradović, Vera Pavlović, Martin Kachlik, Karel Maca, Dragan Olćan, Antonije Đorđević, Ani Tshantshapanyan, Branislav Vlahović, Vladimir Pavlović, "Processing and properties of dense cordierite ceramics obtained through solid-state reaction and pressure-less sintering", *Advances in Applied Ceramics: Structural, Functional and Bioceramics*, DOI: 10.1080/17436753.2018.1548150
  24. Peles A P, Aleksic O S, Pavlovic V P, Djokovic V A, Dojcilovic R J, Nikolic Z, Marinkovic F S, Mitric M N, Blagojevic V A, Vlahovic B, Pavlovic V B; Structural and electrical properties of ferroelectric poly(vinylidene fluoride) and mechanically activated ZnO nanoparticle composite films; *Physica Scripta*, Volume 93, Number 10 105801, <https://doi.org/10.1088/1402-4896/aad749>
  25. Jelena Vujančević, Anđelika Bjelajac, Jovana Ćirković, Vera Pavlović, Endre Horvath, László Forró, Branislav Vlahović, Miodrag Mitrić, Đorđe Janačković, Vladimir Pavlović, "Structure and photocatalytic properties of sintered TiO<sub>2</sub> nanotube arrays", *Science of Sintering* 50 (2018) 39-50. <https://doi.org/10.2298/SOS1801039V>
  26. Kepic Dejan P Ristic Ivan S Marinovic-Cincovic Milena T Perusko Davor B Spitalsky Zdenko Pavlovic Vladimir B Budimir Milica D Siffalovic Peter Dramicanin Miroslav D Micusik Matej Kleinova Angela Janigova Ivica Markovic Zoran MI Todorovic-Markovic Biljana M Simple route for the preparation of graphene/poly(styrene-b-butadiene-b-styrene) nanocomposite films with enhanced electrical conductivity and hydrophobicity *POLYMER INTERNATIONAL*, (2018), vol. 67 br. 8, str. 1118-1127
  27. Petrovic Danijela R Seke Mariana N Labudovic-Borovic Milica M Jovic Danica S Borisev Ivana Srdjenovic Branislava U Rakocevic Zlatko Lj Pavlovic Vladimir B Djordjevic Aleksandar N Hepatoprotective effect of fullerenol/doxorubicin nanocomposite in acute treatment of healthy rats *EXPERIMENTAL AND MOLECULAR PATHOLOGY*, (2018), vol. 104 br. 3, str. 199-211
  28. Malagurski, I., Levic, S., Mitric, M., Pavlovic, V., Dimitrijevic-Brankovic, S. Bimetallic alginate nanocomposites: New antimicrobial biomaterials for biomedical application *Materials Letters* 212, pp. 32-36 2018
  29. Zivojinovic Jelena A Pavlovic Vera P Labus Nebojsa J Blagojevic Vladimir A Kosanovic Darko A Pavlovic Vladimir B Analysis of the Initial-Stage Sintering of Mechanically Activated SrTiO<sub>3</sub> *SCIENCE OF SINTERING*, (2019), vol. 51 br. 2, str. 199-208
  30. Kljajevic Ljiljana M Melichova Zuzana Kisic Danilo D Nenadovic Milos T Todorovic Bratislav Z Pavlovic Vladimir B Nenadovic Snezana S The Influence of Alumino-Silicate Matrix Composition on Surface Hydrophobic Properties *SCIENCE OF SINTERING*, (2019), vol. 51 br. 2, str. 163-173
  31. Tomic Natasa Z Vuksanovic Marija M Djokic Veljko R Mitric Miodrag N Simic Milena R Pavlovic Vladimir B Jancic-Heinemann Radmila M Marinkovic Aleksandar D Synthesis and characterization of nanocrystalline polyhedral oligo silsesquioxanes (POSS) with cross-linkable functionalities *POLYHEDRON*, (2019), vol. 171 br. , str. 299-304
  32. Vranjes Mila R Kuljanin-Jakovljevic Jadranka Z Milosevic Maja S Ciric-Marjanovic Gordana N Stoiljkovic Milovan M Konstantinovic Zorica Pavlovic Vladimir B Milivojevic Dusan D Saponjic Zoran V Hydrothermal synthesis of Mn<sup>2+</sup> doped



- titanate nanotubes: Investigation of their structure and room temperature ferromagnetic behavior *SOLID STATE SCIENCES*, (2019), vol. 94 br. , str. 155-161
33. Yilmaztekin Murat Levic Steva M Kalusevic Ana M Cam Mustafa Bugarski Branko M Rakic Vesna M Pavlovic Vladimir B Nedovic Viktor A Characterisation of peppermint (*Mentha piperita* L.) essential oil encapsulates *JOURNAL OF MICROENCAPSULATION*, (2019) 1464-5246
  34. Obradovic Nina N Pavlovic Vera P Kachlik Martin Maca Karel Olcan Dragan I Djordjevic Antonije R Tshantshapanyan Ani Vlahovic Branislav Pavlovic Vladimir B Processing and properties of dense cordierite ceramics obtained through solid-state reaction and pressure-less sintering *ADVANCES IN APPLIED CERAMICS*, (2019), vol. 118 br. 5, str. 241-248
  35. Rusmirovic Jelena D Obradovic Nina N Perendija Jovana Umicevic Ana B Kapidzic Ana M Vlahovic Branislav Pavlovic Vera P Marinkovic Aleksandar D Pavlovic Vladimir B Controllable synthesis of Fe<sub>3</sub>O<sub>4</sub>-wollastonite adsorbents for efficient heavy metal ions/oxyanions removal *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*, (2019), vol. 26 br. 12, str. 12379-1239
  36. Nikolic Maria Vesna Vasiljevic Zorka Z Lukovic Miloljub D Pavlovic Vera P Krstic Jugoslav B Vujanecic Jelena D Tadic Nenad B Vlahovic Branislav Pavlovic Vladimir B Investigation of ZnFe<sub>2</sub>O<sub>4</sub> spinel ferrite nanocrystalline screen-printed thick films for application in humidity sensing *INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY*, (2019), vol. 16 br. 3, str. 981-993
  37. Obradovic Nina N Gigov Mihajlo N Djordjevic Aleksandar N Kern Frank Dmitrovic Svetlana Matovic Branko Z Djordjevic Antonije R Tshantshapanyan Ani Vlahovic Branislav Petrovic Predrag B Pavlovic Vladimir B Shungite - a carbon-mineral rock material: Its sinterability and possible applications *PROCESSING AND APPLICATION OF CERAMICS*, (2019), vol. 13 br. 1, str. 89-97
  38. Markovic Bojana M Spasojevic Vojislav V Dapcevic Aleksandra Vukovic Zorica M Pavlovic Vladimir B Randjelovic Danijela V Nastasovic Aleksandra B Characterization of glycidyl methacrylate based magnetic nanocomposites *HEMIJSKA INDUSTRIJA*, (2019), vol. 73 br. 1, str. 25-35
  39. Nina Obradović, William G. Fahrenholtz, Suzana Filipović, Smilja Marković, Vladimir Blagojević, Steva Lević, Slobodan Savić, Antonije Đorđević, Vladimir Pavlović, "Formation kinetics and cation inversion in mechanically activated MgAl<sub>2</sub>O<sub>4</sub> spinel ceramics", *Journal of Thermal Analysis and Calorimetry*, 140 (2020) 95–107. (M22)
  40. 2. Darko Kosanović, Nebojša J. Labus, Jelena Živojinović, Adriana Peleš, Vladimir A. Blagojević, Vladimir B. Pavlović, "Effects of mechanical activation on the formation and sintering kinetics of barium strontium titanate ceramics", *Science of Sintering*, 52(2020)371-385 (M22)
  41. 3. S. Filipović, Lj. Anđelković, D. Jeremić, P. Vulić, A. S. Nikolić, S. Marković, V. Paunović, S. Lević, V. B. Pavlović, "Structure and Properties of Nanocrystalline Tetragonal BaTiO<sub>3</sub> Prepared by Combustion Solid State Synthesis", *Science of Sintering*, 52 (2020) 257–268. (M22)
  42. 4. M. Mirković, Lj. Kljajević, S. Filipović, V. Pavlović, S. Nenadović, "Study of Nanosized Hydroxyapatite Material Annealing at Different Retention Times", *Science of Sintering*, 52(2020)405-41. (M22)
  43. Kalifa Mustaf,a Tomic Natasa Z, Vuksanovic Marija M, Stevanovic Sanja I, Djokic Veljko R, Volkov-Husovic Tatjana D Pavlovic Vladimir B, Jancic-Heinemann Radmila M Marinkovic Aleksandar D, he effect of polyhedral oligosilsesquioxanes (POSS) on cavitation resistance of hybrid acrylate films *POLYMER COMPOSITES*, (2020), 41(8), pp. 3403–3410 (M22)
  44. 6. Dejan Jeremić, Ljubica Andjelković, Milica R. Milenković, Marija Šuljagić, Maja Šumar Ristović, Sanja Ostojić, Aleksandar S. Nikolić, Predrag Vulić, Ilija Brčeski, Vladimir Pavlović One-Pot Combustion Synthesis of Nickel Oxide and

- Hematite: from Simple Coordination Compounds to High Purity Metal Oxide Nanoparticles Science of Sintering, 52(2020)481-490 (M22)
45. Jovanovic Aleksandra A Levic Steva M Pavlovic Vladimir B Markovic Smilja B Pjanovic Rada V Djordjevic Verica B Nedovic Viktor A Bugarski Branko M Freeze vs. Spray Drying for Dry Wild Thyme (*Thymus serpyllum* L.) Extract Formulations: The Impact of Gelatin as a Coating Material MOLECULES, (2021), vol. 26, 13 (M22)
  46. Filipovic Suzana Z Obradovic Nina N Andjelkovic Ljubica D Olcan Dragan I Petrovic Jovana P Mirkovic Miljana M Pavlovic Vladimir B Jeremic Dejan A Vlahovic Branislav Djordjevic Antonije R Multiferroic Heterostructure BaTiO<sub>3</sub>/epsilon-Fe<sub>2</sub>O<sub>3</sub> Composite Obtained by in situ Reaction SCIENCE OF SINTERING, (2021), vol. 53 1, 1-8 (M22)
  47. Zmejkoski Danica Z Markovic Zoran MI Zdravkovic Nemanja Trisic Dijana D Budimir Milica D Kuzman Sanja B Kozyrovska Natalia O Orlovska Iryna V Bugarova Nikol Petrovic Djordje Z Kovacova Maria Kleinova Angela Spitalsky Zdeno Pavlovic Vladimir B Todorovic-Markovic Biljana M Bactericidal and antioxidant bacterial cellulose hydrogels doped with chitosan as potential urinary tract infection biomedical agent RSC ADVANCES, (2021), vol. 11 15, 8559-8568 (M22)
  48. Jelic Aleksandra N Marinkovic Aleksandar D Sekulic Milica M Dikic Stefan Ugrinovic Vukasin Dj Pavlovic Vladimir B Putic Slavisa S Design of halloysite modification for improvement of mechanical properties of the epoxy based nanocomposites POLYMER COMPOSITES, (2021), early access (M22)
  49. Suljagic Marija R Vulic Predrag J Jeremic Dejan A Pavlovic Vladimir B Filipovic Suzana Z Kilanski Lukasz Lewinska Sabina Slawska-Waniewska Anna Milenkovic Milica R Nikolic Aleksandar S Andjelkovic Ljubica D The influence of the starch coating on the magnetic properties of nanosized cobalt ferrites obtained by different synthetic methods MATERIALS RESEARCH BULLETIN, (2021), vol. 134

### **Рад у часопису међународног значаја M23**

1. Boskovic Ivana V Vukcevic Mira A Nenadovic Snezana S Mirkovic Miljana Stojmenovic Marija D Pavlovic Vladimir B Kljajevic Ljiljana M Characterization of Red Mud/Metakaolin-Based Geopolymers as Modified by Ca(OH)<sub>2</sub> MATERIALI IN TEHNOLOGIJE, (2019), vol. 53 br. 3, str. 341-348
2. Nina Obradović, Jelena Rusmirović, Suzana Filipović, Darko Kosanović, Aleksandar Marinković, Danka Radić, Vladimir Pavlović, “Porous cordierite-supported polyethyleneimine based composites for nickel (II) and cadmium (II) ions removal”, Desalination and Water Treatment, 192 (2020) 283–296. (M23)
3. Nikolić, M.P., Pavlović, V.B., Stanojević-Nikolić, S., Srdić, V.V. Enzyme immobilization using two processing methods onto silica core-shell particles Boletin de la Sociedad Espanola de Ceramica y Vidrio, 2020 (M23)
4. Radovanovic, M., Nedeljkovic, A., Miocinovic, J., Pavlovic, V., Pudja, P. Microstructure of kajmak skin layer made during kajmak production | Mikrostruktura pokožica dobivenih tijekom proizvodnje kajmaka Mljekarstvo, 2020, 70(3), pp. 150–161 (M23)
5. Klaus, A., Petrovic, P., Vunduk, J., Pavlovic, V., van Griensven, L.J.L.D. The antimicrobial activities of silver nanoparticles synthesized from medicinal mushrooms International Journal of Medicinal Mushrooms, 2020, 22(9), pp. 869–883 (M23)
6. Ivanovic Marija D Nenadovic Snezana S Pavlovic Vera P Radovic Ivona R Kijevcanin Mirjana Lj Pavlovic Vladimir B Kljajevic Ljiljana M The Influence of Thermodynamic Parameters on Alkaline Activators of Geopolymers and the Structure

of Geopolymers MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, (2021), vol. 40 1, 107-117 (M23)

7. Cvetkovic Dragoljub D Ranitovic Aleksandra S Seregelj Vanja N Sovljanski Olja Lj Vulic Jelena J Jovic Branislav D Pavlovic Vladimir B Encapsulation of peach waste extract in *Saccharomyces cerevisiae* cells JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, (2021), vol. 86 4, 367-380 (M23)
8. Tomic Natasa Z Marinkovic Aleksandar D Balanc Bojana D Obradovic Vera M Pavlovic Vladimir B Manojlovic Vaso D Vuksanovic Marija M High-performance laminate material based on polyurethane and epoxide reinforced by silica particles from rice husk used for intelligent pedestrian crossings IRANIAN POLYMER JOURNAL, (2021), early access

M28a

1. Glavni i odgovorni urednik istaknutog međunarodnog naučnog časopisa Science of Sintering (M22)

#### **Рад у врхунском националном часопису M51:**

1. Vladimir B. Pavlović, Jelena D. Vujančević, Branislav Vlahović, Vera P. Pavlović TiO<sub>2</sub> based nanomaterials and nanostructures for green convergent technologies and environmental protection *Zastita Materijala* 61 (4) 346 – 355 (2020) ISSN 0351-9465, E-ISSN 2466-2585 UDC: 549.514.6: 620.3:502.175 (M51)

#### **Рад у националном часопису M52**

1. Suzana Filipović, Nina Obradović, Nataša Đorđević, Darko Kosanović, Smilja Markovic, Miodrag Mitrić, Vladimir Pavlović, "Uticaj mehaničke aktivacije na sistem MgO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> u prisustvu aditiva TeO<sub>2</sub>", *Tehnika – Novi materijali* 25, 6 (2016) 797–802.
2. A. Janičijević, A. Sknepnek, M. Mirković, V. Pavlović, S. Filipović, Optimizacija parametara sinteze nanokompozita na bazi bakterijske nanoceluloze/Fe<sub>3</sub>O<sub>4</sub>, *Tehnika – Novi materijali*, 2021, vol. 76, br. 3, 273-278. <https://scindeks.ceon.rs/Article.aspx?artid=0040-21762103273J> (M52)

#### **Зборници међународних научних скупова**

##### **Предавање по позиву са међународног скупа штампано у целини M31**

1. Vera Pavlović, Branislav Vlahović, Darko Kosanović, Milan Dukić, Marwin Wu, Vladimir Pavlović, Mechanically Activated Ferroelectric Materials, Proceedings of 3rd International conference on Electrical, Electronic and Computing Engineering – IcETRAN 2016, Zlatibor, Serbia, June 13-16, 2016, ISBN 978-86-7466-618-0, pp. NMI1.1.1-8
2. V. P. Pavlović, A.Tshantshapanyan, B. Vlahović, J. Živojinović, D. Kosanović, V. B. Pavlović, Raman spectra of the materials based on mechanically activated alkaline earth metal titanates, Proceedings of Papers - 7<sup>th</sup> International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2020), Belgrade, Čačak, Niš, Novi Sad, Serbia, September 28-29<sup>th</sup> 2020, Published by ETRAN Society, Belgrade, Academic Mind, Belgrade, ISBN 978-86-7466-852-8, pp.501-508 (M31)

##### **M32 : Предавање по позиву са међународног скупа штампано у изводу**

1. J. Rusmirović, A. Marinković, N. Obradović, V. Pavlović, V. Pavlović, Iron oxide functionalized wollastonite based adsorbents for oxyanions removal, *Serbian Ceramic*

Society Conference Advanced Ceramics and Application VI, 18-20 September 2017. Book of Abstracts, pp 48, Invited lecture, ISBN 978-86-915627-5-5

2. Jelena Vujancevic, Andjelika Bjelajac, Vera Pavlovic, Branislav Vlahovic, Djordje Janackovic, Vladimir Pavlovic, "Fabrication and applications of multifunctional nanostructured TiO<sub>2</sub>", The Third International Symposium on Agricultural Engineering, 20-21<sup>st</sup> October 2017, Belgrade-Zemun, Serbia, book of abstract page 44, ISBN 978-86-7834-287-5

#### Саопштење са међународног скупа штампано у изводу - М<sub>34</sub>

1. Nina Obradović, Nataša Đorđević, Darko Kosanović, Suzana Filipović, Martin Kachlik, Karel Maca, Dragan Olčan, Antonije Đorđević, Vladimir Pavlović, Characterization of pressureless sintered MgO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-TeO<sub>2</sub> system, 19th Annual Conference of the Materials Research Society of Serbia - YUCOMAT 2017, Herceg Novi, Montenegro, September 4-8, 2017. <http://www.mrs-serbia.org.rs/index.php/youcomat-book-of-abstracts>
2. Nina Obradović, Nataša Đorđević, Suzana Filipović, Darko Kosanović, Smilja Marković, Vladimir Blagojević, Vladimir Pavlović, Kinetics and thermodynamics of thermally activated processes in cordierite-based ceramics, 4<sup>th</sup> Central and Eastern European Committee for Thermal Analysis and Calorimetry, 28-31 August 2017, Chisinasu, Moldova. <http://www.ceec-tac.org/conf4/welcome.html>
3. Nina Obradović, Darko Kosanović, Suzana Filipović, Jelena Rusmirović, Aleksandar Marinković, Danka Radić, Vladimir Pavlović, Preparation of cordierite-based adsorbents for water purification, Advanced Ceramics and Application VI - Serbian Ceramic Society, Belgrade, Serbia, Sep 18<sup>st</sup>-20<sup>st</sup>, 2017. <http://www.serbianceramicsociety.rs/doc/ACA-VI-Program-and-Book-of-Abstracts.pdf>
4. Zorka Z. Vasiljevi, Maria Vesna Nikolic, Miroljub D. Lukovic, Milica Vujkovic, Jelena Vujancevic, Vladimir B. Pavlovic, Obrad S. Aleksic "Photoelectrochemical water splitting potential of ZnFe<sub>2</sub>O<sub>3</sub> thick films" 4<sup>th</sup> Conference of the Serbian Society for Ceramic Materials, June 14-16.2017. Belgrade Serbia, book of abstract, page 99-100, ISBN 978-86-80109-20-6
5. Zorka Z. Vasiljevic, Miroljub D. Lukovic, Maria Vesna Nikolic, Milica Vujkovic, Jelena Vujancevic, Vladimir B. Pavlovic, Obrad S. Aleksic "Photoelectrochemical water splitting behavior of nanostructured Fe<sub>2</sub>TiO<sub>5</sub> thick films prepared by a solid state reaction" 4<sup>th</sup> Conference of the Serbian Society for Ceramic Materials, June 14-16.2017. Belgrade Serbia, book of abstract page 100, , ISBN 978-86-80109-20-6
6. N. Obradović, J. Rusmirović, D. Kosanović, M. Đolić, A. Popović, V. Pavlović, A. Marinković, The Removal of Ni<sup>2+</sup> and Cd<sup>2+</sup> -ions onto Synthetic Mineral Based Composite Functionalized by Polyethylenimine, Book of Abstracts/10th Congress of Toxicology in Developing Countries (CTDC10) [and] 12<sup>th</sup> Congress of the Serbian Society of Toxicology (12th SCT), April 18-21, 2018, Belgrade, Serbia;]. - Beograd: Serbian Society of Toxicology, 2018 (Beograd : Dosije studio). - 144 str., ISBN 978-86-917867-1-7
7. Nina N. Obradovic, Jelena D. Rusmirovic, Darko A. Kosanovic, Maja B. Djolic, Ana L. Popovic, Vladimir B. Pavlovic, Aleksandar D. Marinkovic, "The removal of Ni<sup>2+</sup> and Cd<sup>2+</sup> - ions onto synthetic mineral based composite functionalized by polyethylenimine", CTDC 10 and 12th SCT – book of abstracts (2018) 144.
8. Nina Obradović, Mihajlo Gigov, Aleksandar Đorđević, Frank Kern, Svetlana Dmitrović, Branko Matović, Antonije Đorđević, Vladimir Pavlović, "Shungite - a russian mineral: possible application as a microwave absorber", YUCOMAT 2018, Herceg Novi, Montenegro, Programme and the book of abstracts, (2018) 94
9. Suzana Filipović, Nina Obradović, Smilja Marković, Antonije Đorđević, Aleksandra Dapčević, Jelena Rogan, Vladimir Pavlović, "Sintering of alumina doped with different oxides, followed by sensitive dilatometer", YUCOMAT 2018, Herceg Novi, Montenegro, Programme and the book of abstracts, (2018) 95

10. Jelena Vujančević, Anđelika Bjelajac, Jovana Ćirković, Vera P. Pavlović, Endre Horváth, László Forró, Đorđe Janačković, Vladimir B. Pavlović, "Customizing nanotubular titania for photocatalytic activity, 17 young researchers conference-materials science and engineering, Book of abstracts, December 5-7, 2018, Belgrade, Serbia
11. N. Obradović, W. Fahrenholtz, S. Filipović, D. Kosanović, A. Dapčević, J. Rogan, V. Pavlović, The effect of mechanical activation on synthesis and properties of  $MgAl_2O_4$  ceramics, XVI ECerS Conference, 16-20 June, Torino, Italy, Programme and the book of abstracts, (2019), p. 262. *Usmeno izlaganje*
12. S. Filipović, N. Obradović, S. Marković, I. Balać, A. Đorđević, V. Pavlović, Electrical and mechanical properties of alumina doped with transition metal oxides sintered at  $1400^\circ C$ , XVI ECerS Conference, 16-20 June, Torino, Italy, Programme and the book of abstracts, (2019), p. 682. *Poster*
13. Nina OBRADOVIĆ, William G. FAHRENHOLTZ, Suzana FILIPOVIĆ, Smilja MARKOVIĆ, Vladimir BLAGOJEVIĆ, Steva LEVIĆ, Antonije ĐORĐEVIĆ, Vladimir PAVLOVIĆ, "Influence of mechanical activation on kinetics and formation of spinel monitored by DTA", 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis, 27-30 August, Roma, Italy, Programme and the book of abstracts, (2019), p. 70. *Usmeno izlaganje*
14. S. Filipović, N. Obradović, W. G. Fahrenholtz, B. A. Marinković, J. Rogan, S. Lević, V. B. Pavlović, Morphological nad structural characterization of spinel  $MgAl_2O_4$ , Advanced Ceramics and Applications VIII, 23-25 September, Belgrade, Serbia, Programme and the book of abstracts, (2019), p. 32. *Predavanje po pozivu*
15. N. Obradović, W. G. Fahrenholtz, **S. Filipović**, P. Đorđević, S. Marković, J. Rogan, P. J. Vulić, V. B. Pavlović, Characterization of  $MgAl_2O_4$  sintered ceramics, Advanced Ceramics and Applications VIII, 23-25 September, Belgrade, Serbia, Programme and the book of abstracts, (2019), p. 54. *Poster*
16. Nina Obradović, William G. Fahrenholtz, **Suzana Filipović**, Pavle Đorđević, Jelena Rogan, Vladimir Pavlović, "Effect of Mechanical Activation on the Densification Behavior of  $MgAl_2O_4$  Spinel", The 13th Pacific Rim Conference of Ceramic Societies (PACRIM13) October 27 - November 1, Okinawa Convention Center, Japan, (2019), 30-B1C-S13-14. *Usmeno izlaganje*
17. Vladimir Pavlović, Nataša Milosavljević, Vera Pavlović, Branislav Vlahović, Artificial intelligence and digital technologies in digitally-supported university education, *WEBINAR MATHEMATICS FOR HUMAN FLOURISHING IN THE TIME OF COVID-19 AND POST COVID-19* book of abstracts 14, Center for Applied Mathematics, CAM-FMEN, Faculty of Mechanical Engineering, University of Niš, Serbia 21 October 2020
18. A. Sknepnek, S. Filipović, P. Mašković, M. Mirković, D. Miletić, M. Nikšić, V. B. Pavlović, "Effects of synthesis parameters on structure and properties of the ceramic/polymer fulms based on bacterial cellulose", International conference of experimental and numerical investigations and new technologies, Zlatibor June 29-July 02, 2021. str.78. [http://cnntechno.com/docs/5\\_CNN\\_book\\_of\\_abstracts.pdf](http://cnntechno.com/docs/5_CNN_book_of_abstracts.pdf)
19. M. Mirković, S. Filipović, P. Mašković, V. B. Pavlović, "Phase morphological and antimicrobial properties of Hap-TiO<sub>2</sub> nanomaterials obtained by different synthesis route", International conference of experimental and numerical investigations and new technologies, Zlatibor June 29-July 02, 2021. str.14. [http://cnntechno.com/docs/5\\_CNN\\_book\\_of\\_abstracts.pdf](http://cnntechno.com/docs/5_CNN_book_of_abstracts.pdf)
20. A. Janićijević, V. B. Pavlović, A. Sknepnek, M. Mirković, D. Kovačević, N. Djordjević, S. Filipović, "Effect of prolonged precipitation on morphology and crystal structure of the bacterial nanocellulose/Fe<sub>3</sub>O<sub>4</sub> composite", Advanced ceramics and application IX: New Frontiers in Multifuncional Material Science and Processing, 21-22 September, Belgrade, Serbia, Program and the book of abstracts, (2021), p. 55. <file:///C:/Users/suzan/AppData/Local/Temp/ACA-IX-2021-Book-of-Abstracts-1.pdf>

21. S. Filipović, N. Obradović, M. Rosenschon, E. Füglein, R. Dojčilović, A. Đorđević, J. Petrović, V. B. Pavlović, „Enhanced dielectric properties of PVDF-based composites with BaTiO<sub>3</sub> ceramic decorated with Fe<sub>2</sub>O<sub>3</sub>“, Advanced ceramics and application IX: New Frontiers in Multifunctional Material Science and Processing, 21-22 September, Belgrade, Serbia, Program and the book of abstracts, (2021), p. 58.

### **Зборници националних научних скупова**

**Саопштење са националног скупа штампано у целини - М63**

1. A. Janićijević, S. Filipović, V. B. Pavlović, A. Sknepnek, D. Kovačević, N. Đorđević, M. Mirković, P. Živković, Sinteza i struktura bakterijske celuloze primenom bakterija sirćetnog vrenja, “XXVI SAVETOVANJE O BIOTEHNOLOGIJI” Zbornik radova, 2021. 281-289. <https://doi.org/10.46793/sbt26-281j/>

### **М64**

1. Jelena Vujančević, Vlada Blagojević, Pavao Andričević, Vera P. Pavlović, Endre Horváth, László Forró, Branislav Vlahović, Vladimir B. Pavlović, Đorđe Janačković, *Photoactivity of vanadium oxide TiO<sub>2</sub> nanotubes*, Conference for Young Scientists in Ceramics - CYSC 2021, Novi Sad, Serbia, October 20-23, 2021, pp92 (M64)
2. Jelena D. Vujančević, Jovana Ćirković, Endre Horvath, Laszlo Forro, Vladimir Pavlović, Đorđe Janačković, *Influence anodization parameter on photocatalytic activity of TiO<sub>2</sub> nanotubes*, International Conference of Experimental and Numerical Investigations and New Technologies-CNN Tech 21, Zlatibor, 29. Jun - 02 July 2021, pp23

### **Патентна пријава – (М90)**

1. П. Петровић, В. Павловић, “Пиезоелектрични сензор притиска/силе базиран на струјном процесирању”, Завод за интелектуалну својину, П-2017/1216, 27. 11 2017.год. Београд.

НАСТАВНА АКТИВНОСТ У ПРЕТХОДНОМ ПЕТОГОДИШЊЕМ ПЕРИОДУ (Списак предмета са статусом предмета (обавезни или изборни, ниво студија) у чијем извођењу је наставник учествовао; Списак менторства и/или учешћа у комисијама за одбрану завршних радова на докторским, специјалистичким или мастер академским студијама са насловом рада, именом и презименом кандидата)

Списак предмета по одсецима

Биљна производња

Основне академске студије

Модул - Предмет:

- Фитомедицина(Статут 08) - Физика (изборни)

Мелиорације земљишта

Основне академске студије

Модул - Предмет:

- Мелиорације земљишта(Статут 08) - Физика (обавезни)
- Мелиорације земљишта(Статут 14) - Физика (обавезни)

Пољопривредна техника

Основне академске студије

Модул - Предмет:

- Пољопривредна техника(Статут 08) - Физика (обавезни)
- Пољопривредна техника(Статут 14) - Физика (обавезни)
- Биотехнички инжњљеринг Физика (обавезни)
- Биотехнички инжњљеринг Биотехнички материјали (изборни)

Прехрамбена технологија

Основне академске студије

Модул - Предмет:

- Технологија анималних производа(Статут 08) - Физика (обавезни)
- Управљање безбедношћу и квалитетом у производњи хране(Статут 08) - Физика (обавезни)
- Технологија конзервисања и врења(Статут 08) - Физика (обавезни)
- Технологија ратарских производа(Статут 08) - Физика (обавезни)
- Технологија анималних производа(Статут 14) - Физика (обавезни)
- Технологија конзервисања и врења(Статут 14) - Физика (обавезни)
- Управљање безбедношћу и квалитетом у производњи хране(Статут 14) - Физика (обавезни)
- Технологија ратарских производа(Статут 14) - Физика (обавезни)
- Микробиологија хране(Статут 14) - Физика (обавезни)
- Технологија анималних производа(Статут 20) - Физика (обавезни)
- Технологија конзервисања и врења(Статут 20) - Физика(обавезни)
- Технологија ратарских производа(Статут 20) - Физика (обавезни)
- Микробиологија хране(Статут 20) - Физика (обавезни)
- Управљање безбедношћу и квалитетом у производњи хране(Статут 20) - Физика (обавезни)

Члан комисије за одбрану докторске дисертације

1. Јелена Русмировић  
Назив докторске дисертације: Динамичко-механичка и темичка својства композита базираних на незасићеним полиестарским смолама и модификованим наночестицама силицијум-диоксида и целулозе  
Година одбране 2016 Универзитет у Београду, Технолошко-металуршки факултет
2. Ивана Малагурски

Назив докторске дисертације Добијање и карактеризација неминерализованих и минерализованих биоматеријала на бази полисахарида морских алги и есенцијалног метала цинка“

Година одбране 2017 Универзитет у Београду, Технолошко-металуршки факултет

3. Данка М. Матијашевић

Назив докторске дисертације УТИЦАЈ СЕ(ИВ)- И СЕ(ВИ)-  
МОДИФИКОВАНОГ ЗЕОЛИТА НА АНТИОКСИДАТИВНО И  
АНТИМИКРОБНО ДЕЈСТВО ГЉИВА  
*PLEUROTUS OSTREATUS И CORIOLUS VERSICOLOR*

Година одбране 2017 Универзитет у Београду, Пољопривредни факултет

4. Немања В. Кљајевић

Назив докторске дисертације Утицај складиштења смрзнутог козјег млека,  
груша и груде на својства сира у саламури

Година одбране 2018 Универзитет у Београду, Пољопривредни факултет

5. Jelena D. Vujačević

Назив докторске дисертације Модификовање структуре и фотоактивности  
титан(IV)-оксида допирањем и применом фотоосетљивих компоненти  
Година одбране 2020 Универзитет у Београду, Технолошко-металуршки  
факултет

6. Јелена Живојиновић

Назив докторске дисертације Утицај механичке активације на структуру и  
својства стронцијум-титанатне керамике

Година одбране 2020 Универзитет у Београду, Технолошко-металуршки  
факултет

7. Урош Јосић

Назив докторске дисертације The effect of cross-linker on endogenous enzymatic  
activity within radicular dentin and bond strength between intraradicular post and  
radicular dentin

Година одбране 2021 Универзитет у Београду, Стоматолошки факултет

ФАКУЛТЕТСКЕ, СТРУЧНЕ И ДРУШТВЕНЕ АКТИВНОСТИ У ПРЕТХОДНОМ ПЕТОГОДИШЊЕМ ПЕРИОДУ (Учешће у пројектима, комисијама, одборима, стручним органима, професионалним удружењима или организацијама националног или међународног нивоа и слично на и/или ван Факултета)

Учешће на пројектима

1. 2021-2022 Artificial Intelligence and Digital Technologies for Distance Learning - University Partnership Between Belgrade University's Faculty of Agriculture & North Carolina Central University (NCCU)
2. 2021-2022 ВиДтАгро, Пројекат је финансиран од стране Министарства просвете, науке и технолошког развоја РС
3. Пољопривредни факултет, пројекат институционалног финансирања од стране Министарства просвете, науке и технолошког развоја РС
4. 2020- EU COST project CA19124 "Rethinking Packaging for Circular and Sustainable Food Supply Chains of the Future") member of the management committee
5. 2020- Institutional research project - Serbian ministry of education and science, scientific coordinator in the field of smart materials
6. 2018- EU COST project CA17128, "Establishment of a Pan-European Network on the Sustainable Valorisation of Lignin", (2018-2022)
7. 2018-2019 In situ FTIR spectroscopy of micro/mesoporous aluminosilicates (451-03-01963/2017-09/18) - project of bilateral cooperation between Serbia and France



8. 2018-ongoing (estimated end date 2021) 1829245 USA NSF grant NSF-RISE: Enhancement of Research and Education Infrastructure on Nanobiomaterials, Biochemistry, Biophysics, and Environmental Science
9. 2016-2017 Smart eco-friendly nanostructures and nanocomposites - project of bilateral cooperation between Serbia and France
10. 2015- ongoing (estimated end date 2021) 1523617NSF Grant NSF- PREM Partnership for Research and Education in Nanomaterials between Pennsylvania State University (PSU) and North Carolina Central University (NCCU)
11. 2014-2018 EU COST project CM1302 - European Network on Smart Inorganic Polymers (SIPs) member of management committee substitute
12. 2013-2019 NSF CREST support (NSF-HRD 0833184, CREST: Computational Center for Fundamental and Applied Science and Education at North Carolina Central University
13. 2011- 2019 Targeted synthesis, structure and properties of multifunctional materials - Serbian ministry of education and science (руководилац пројекта)

Учешће у комисијама, одборима, стручним органима професионалним удружењима или организацијама националног или међународног нивоа и слично на и/или ван Факултета

1. Шеф катедре за математику и физику
2. Члан комисије за пријемне испите
3. Члан етичке комисије
4. Члан савета факултета
5. Председник КОКСа
6. Руководилац лабораторије за електронску микроскопију
7. Главни и одговорни уредник истакнутог међународног часописа Science of Sintering
8. Потпредседник Српског керамичког друштва

Датум 31. 12. 2021

Подносилац извештаја

Владимир Павловић