



Dr Miroslav Pavlović

Naučni saradnik

Profesionalno iskustvo Oblasti interesovanja Projekti Izabrane publikacije

Adresa: NU IHTM – Centar za elektrohemiju, Univerzitet u Beogradu

Njegoševa 12, 11000 Beograd 6,
PAK 125213, Republika Srbija

Laboratorija: Institut za hemiju, tehnologiju i metalurgiju,

Njegoševa 12, I sprat, soba 26
11000 Beograd 6, PAK 125213, Republika Srbija

Telefon: +381 11 3640 231

Faks: +381 11 3640 234

Mobilni telefon: +381 65 6769 144

Elektronska pošta: mpavlovic@tmf.bg.ac.rs

mpavlovic@ihtm.bg.ac.rs

Obrazovanje: 2001. Gimnazija

2007. Tehnološko-metalurški fakultet, Univerzitet u Beogradu, Beograd, Srbija (diploma)

2015. Tehnološko-metalurški fakultet, Univerzitet u Beogradu, Beograd, Srbija (doktorska disertacija)

Zvanja: 2007. Istraživač pripravnik*

2010. Istraživač saradnik*

2016. Naučni saradnik*

Članstva u društvima: Srpsko hemijsko društvo

Udruženje inženjera Srbije za koroziju i zaštitu materijala

Profesionalno iskustvo: 2005. – 2006. AGFA Gevaert NV, R&D Department InkJet, Mortsel Belgija

2006. The Institute for Catalysis and Surface Chemistry, Polish Academy of Sciences, Laboratory for surface characterization, Krakov, Poljska

2008. ETH Zürich, Institute of Chemical and Bioengineering, Department of Chemistry and Applied Biosciences, Ciri, Švajcarska

2009. -2010. EPF Lausanne, Laboratory of Composite and Polymer Technology, Lozana, Švajcarska

2007. -2015. IHTM – Centar za materijale i metalurgiju, Beograd, Srbija

2016. -**danas** IHTM – Centar za elektrohemiju, Beograd, Srbija

Nagrade i priznanja: 2007. Nagrada "Panta S. Tutundžić" na Tehnološko-metalurškom fakultetu

2010. Nagrada Ministarstva za prosvetu i nauku Republike Srbije (II mesto) u okviru takmičenja za Najbolju tehnološku inovaciju u kategoriji Inovativne ideje za inovaciju: "Nova tehnologija za sintezu novih materijala na bazi celuloze i lignina"

2011. Nagrada Ministarstva nauke i tehnologije Republike Srpske (II mesto) u okviru takmičenja za Najbolju tehnološku inovaciju u kategoriji Realizovane inovacije za inovaciju: "Nova tehnologija za sintezu novih materijala na bazi celuloze i lignina"

2012. Nagrada Ministarstva nauke i tehnologije Republike Srpske (II mesto) u okviru takmičenja za Najbolju tehnološku inovaciju u kategoriji Realizovane inovacije za inovaciju: "Uređaj za mikrobilošku dezinfekciju vode elektrohemijskim putem"

2013. Nagrada Ministarstva za prosvetu i nauku Republike Srbije (IV mesto) u okviru takmičenja za Najbolju tehnološku inovaciju u kategoriji Realizovane inovacije za inovaciju: "Uređaj za mikrobilošku dezinfekciju vode elektrohemijskim putem kod protočnih sistema"

Oblasti interesovanja: Nauka o polimerima, sinteza i razvoj polimera i drugih organskih i kompozitnih materijala, organska hemijska tehnologija, kompozitni materijali, inženjerstvo materijala, tretman voda i otpadnih voda

Stručne veštine: AFM i STM mikroskopija, sinteza hiperrazgranatih polimera

Znanje jezika: Engleski, Francuski

Najznačajniji projekti: Međunarodni:

2012.–2013. "Elektroprovodni kompozitni materijali na bazi lignoceluloze i bakarnih prahova dobijenih konstantnim i programiranim strujno-naponskim režimima elektrolize", **ELBAKOM140283**, Ministarstvo nauke i tehnologije Republike Srpske, Republika Srpska, Bosna i Hercegovina.

Osnovna istraživanja:

2010. – 2016. - „Savremeni višekomponentni metalni sistemi i nanostrukturni materijali sa različitim funkcionalnim svojstvima“, Projekat OI 172037, Ministarstvo za prosvetu, nauku i tehnološki razvoj, Republika

Srbija.

2006. – 2010. – „Dizajniranje nanokristalnih magnetnih materijala tipa i komponenti na bazi (Nd,Pr)-Fe-B smart magnetnih materijala“, Projekat OI 142035 B, Ministarstvo za nauku i tehnološki razvoj, Republika Srbija.

Izabrane publikacije: Publikovani radovi:*

1. Pavlović, Lj.J., **Pavlović, M.M.**, Pavlović, M.G., Nikolić, N.D., Tomić, M.V., „Electrodeposition of Fe Powder from Citrate Containing Electrolytes“, *Int. J. Electrochem. Sci.*, 5 (2010)1898-1910.
2. **Pavlović, M.M.**, Čosović, V., Pavlović, M.G., Talijan, N., Bojanić, V., „Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders“, *Int. J. Electrochem. Sci.*, 6(2011)3812-3829.
3. Pavlović Lj. J., Pavlović M.G., **Pavlović M.M.**, Nikolić N.D., Tomić M.V., „The Effect of Periodically Changing Regimes on the Electrodeposition of Silver Powder“, *Int. J. Electrochem. Sci.*, 6(2011)6741-6750
4. **Pavlović, M.M.**, Čosović, V., Pavlović, M.G., Bojanić, V., Nikolić, N. D., Aleksić, R., „Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders. Part II. Influence of Particle Size on Percolation Threshold“, *Int. J. Electrochem. Sci.*, 7(2012) 8883 – 8893.
5. **Pavlović, M.M.**, Pavlović, M.G., Panić, V., Talijan, N., Vasiljević, Lj., Tomić, M.V., „Electrical Conductivity of Lignocellulose Composites Loaded with Electrodeposited Copper Powders. Part III. Influence of Particle Morphology on Appearance of Electrical Conductive Layers“, *Int. J. Electrochem. Sci.*, 7(2012) 8894 – 8904.
6. Čosović, V.R., **Pavlović, M.M.**, Čosović, A.R., Vulić, P.J., Premović, M.M., Živković, D.T., Talijan, N.M., „Microstructure Refinement and Physical Properties of Ag-SnO₂ Based Contact Materials Prepared by High-Energy Ball Milling“, *Science of Sintering*, 45(2)(2013)173-180
7. **Pavlović, M.M.**, Pavlović, M.G., Čosović, V.R., Bojanić, V., Nikolić, N.D., Aleksić, R., „Influence of Electrolytic Copper Powder Particle Morphology on Electrical Conductivity of Lignocellulose Composites and Formation of Conductive Pathways“, *Int. J. Electrochem. Sci.*, 9 (2014) 8355 – 8366
8. Pavlović, M.G., Pavlović, M.M., Pavlović, M.M., Nikolić, N.D., „Electrochemical Removal of Microorganisms in Drinking Water“, *Int. J. Electrochem. Sci.*, 9(2014)8249-8262.
9. Tomić, M.V., Mičić, V.M., Godec, R.F., Pavlović, M.G., Vaštag, Đ., Riđošić, M.G., **Pavlović, M.M.**, „Sage Extracts as Inhibitors of Steel Corrosion in 4% HCl“, *Int. J. Electrochem. Sci.*, 11 (2016) 3339 -3350
10. **Pavlović, M.M.**, Čosović, V., Stajić-Trošić, J., Janković, Z., Nikolić, N.D., Pavlović, M.G., „Uticaj morfologije punioca na termijske karakteristike kompozita lignoceluloze punjene metalnim prahovima“, *Zaštita Materijala*, 56(4)(2015)471 - 482.
11. Tomić, M.V., Mičić, V., Pavlović, M.G., **Pavlović, M.M.**, Bošković, G., Nikolić, N.D., „Katalitičko delovanje sumporne kiseline na morfologiju elektrohemijski dobijenog bakarnog praha“, *Zaštita Materijala*, 56(4)(2015)496 - 504.
12. Pavlović, Lj.J., **Pavlović, M.M.**, Arsenović, B., Nikolić, N.D., Popov, K.I., Pavlović, M.G., „Uticaj stanja površine metala na sjaj i strukturu metalnih prevlaka. II deo: Morfologija i struktura elektrohemijski istaloženih prevlaka metala“, *Zaštita materijala*, 48(4)(2007)19-31
13. **Pavlović, M.M.**, Gligorić, M., Čosović, V., Bojanić, V., Tomić, M., Pavlović, M.G., Electrical conductivity of the electrodeposited copper powder filled lignocellulose composites, *Contemporary Materials*, V(2)(2014)203-211.
14. **Pavlović, M.M.**, Čosović, V., Talijan, N., Pavlović, M.G., Bojanić, V., „Struktura i svojstva elektroprovodnih kompozitanih materijala na bazi lignoceluloze i bakarnog praha“, *Bakar*, 37(1)(2012)1-10.
15. Tomić, M.V., Savljević, D., Pavlović, M.G., Riđošić, M.G., **Pavlović, M.M.**, „Uticaj gustine struje na morfologiju elektrohemijski dobijenog bakarnog praha“, *Zaštita materijala i životne sredine*, 3(2)(2014)50-61.
16. **Pavlović, M.M.**, Pavlović, M.G., Aleksić, R., Nikolić, N., Stajić-Trošić, J., Tomić, M., „Formiranje provodnih puteva kod lignoceluloznih kompozita punjenih elektrolitičkim bakarnim prahom“, *Zaštita materijala i životne sredine*, 3(2)(2014)62-66.

Saopštenja:

1. Pavlović, M.G., **Pavlović, M.M.**, „Fundamentalna pitanja nastajanja sjajnih površina metala dobijenih elektrohemijskim putem“, Međunarodni naučni skup „Savremeni materijali 2010“, Knjiga Apstrakata, str. 24-25, Izd. Akademija nauka i umjetnosti Republike Srpske, Banja Luka, juli 2010., Bosna i Hercegovina
2. Pavlović, M.G., Gligorić, M., **Pavlović, M.M.**, Pavlović, Lj.J., Tomić, M.V., Nikolić, N.D., „Some questions about morphology and structure of electrodeposited metal coatings“, XX Congress of Chemists and Technologists of Macedonia, Abstract Book, p.221, Ohrid, Macedonia, September 2008, elektronsko izdanje, ISBN 978-9989-760-07-5, ECH-17-E.
3. Pavlović, Lj.J., **Pavlović, M.M.**, Pavlović, M.G., Tomić, M.V., Lačnjevac, U.Č., „Uticaj vrste elektrolita i gustine struje na morfologiju Fe praha“, XII YUCORR – Cooperation of Researches of Different Branches in the Fields of Corrosion, Materials Protection and Environmental Protection, International Conference, Proceedings, CD, PS-48, 9 pages, ISBN 978-86-82343-13-4, May 18-21, 2010., Tara, Serbia.
4. **Pavlović, M.M.**, Čosović, V., Bojanić, V., Talijan, N., Pavlović, M.G., „Elektroprovodni kompozitni materijali na bazi lignoceluloze i bakarnog praha“, II International Congress “Engineering, Ecology and Materials in the Processing Industry”, Proceedings, CD, pp. 1270-1275, ISBN 978-99955-81-01-5, March 2011, Jahorina, Bosnia & Herzegovina.
5. Pavlović, M.G., Talijan, N., **Pavlović, M.M.**, Čosović, V., Bojanić, V., Tomić, M.V., „Strukturne karakteristike kompozitnih materijala lignoceluloze i bakra“, XIII YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 265-272, ISBN 978-86-82343-15-8, April 05.-08., 2011., Tara, Serbia.
6. Pavlović, M.G., Pavlović, Lj.J., **Pavlović, M.M.**, Tomić, M.V., „Uklanjanje mikroorganizama u vodi za piće elektrohemijskim putem“, XIII YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and

- Environmental Protection, International Conference, Proceedings, CD, pp. 490-495, ISBN 978-86-82343-15-8, April 05.-08., 2011., Tara, Serbia.
7. **Pavlović, M.M.**, Čosović, V., Taliijan, N., Pavlović, M.G., Bojanić, V., „Struktura i svojstva elektroprovodnih kompozitnih materijala na bazi lignoceluloze i bakarnog praha“, XIV YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp.169-176, ISBN 978-86-82343-17-2, April 17.-20., 2012., Tara, Serbia.
 8. Pavlović, M.G., Tomić, M.V., Fuchs – Godec, R., **Pavlović, M.M.**, Đukić, B., Riđošić, M.G., „Mogućnost primene zelenih inhibitora za zaštitu čelika“, XIV YUCORR –Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp.177-190, ISBN 978-86-82343-17-2, April 17.-20., 2012., Tara, Serbia.
 9. **Pavlović, M.M.**, Čosović, V., Taliijan, N., Živković, D., Pavlović, M.G., Aleksić, R., Electrical Conductivity of Lignocellulose Composites Loaded With Chemically Deposited Silver Powders, 44rd International October Conference on Mining and Metallurgy, ISBN 978-86-7827-042-0, October 2012, Bor, Serbia p. 461-464.
 10. **Pavlović, M.M.**, Šašić, R., Stajić-Trošić, J., Bojanić, V., Stevanović, J., “Electrical conductivity of lignocellulose composites loaded with metal powders”, 15. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 122-127, ISBN 978-86-82343-19-6, September 17-20, 2013., Tara, Serbia.
 11. **Pavlović, M.M.**, Čosović, V., Taliijan, N., Gligorić, M., Pavlović, M.G., “Influence of electrolytic copper powder particle morphology on electrical conductivity of lignocellulose composites”, 15. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 312-319, ISBN 978-86-82343-19-6, September 17-20, 2013., Tara, Serbia.
 12. Tošković, N.D., **Pavlović, M.M.**, Tošković, D.V., “Influence of alloyed layer (FeSn₂) and porosity of stannic sheating on the corrosion of tin plate”, 15. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 420-430, ISBN 978-86-82343-19-6, September 17-20, 2013., Tara, Serbia.
 13. Čosović, V., **Pavlović, M.M.**, Čosović, A.R., Živković, D.T., Taliijan, N.M., “Microstructure and physical properties of Ag-SnO₂ based contact materials prepared using high-energy ball milling”, III International Congress, Engineering, Environment and Materials in Processing Industry, Proceedings, CD, pp. 934 -939, ISBN 978-99955-81-11-4, March 4-6, 2013., Jahorina, Bosnia and Herzegovina.
 14. **Pavlović, M.M.**, Gligorić, M., Pavlović, M.G., Čosović, V., Taliijan, N., Tomić, M.V., „Comparison of electrical conductivity of lignocellulose composites loaded with silver and copper powders”, III International Congress, Engineering, Environment and Materials in Processing Industry, Proceedings, CD, pp. 1087 - 1094, ISBN 978-99955-81-11-4, March 4-6, 2013., Jahorina, Bosnia and Herzegovina.
 15. **Pavlović, M.M.**, Čosović, V., Taliijan, N., Gligorić, M., Pavlović, M.G., „Influence of particle morphology on electrical conductivity of lignocellulose composites loaded with electrodeposited copper powders”, , III International Congress, Engineering, Environment and Materials in Processing Industry, Proceedings, CD, pp. 1095 -1103, ISBN 978-99955-81-11-4, March 4-6, 2013., Jahorina, Bosnia and Herzegovina.
 16. Čosović, V., Čosović, A.R., **Pavlović, M.M.**, Kostov, A., Živković, D.T., Taliijan, N.M., “Nanocomposite Ag-SnO₂ electrical contacts prepared by template method”, 1st Metallurgical & Materials Engineering Congress of South-East Europe, Proceedings, pp.267-273, ISBN 987-86-87183-24-7, May 23-25, 2013., Belgrade, Serbia
 17. Pavlović Miomir G., **Pavlović Miroslav, M.**, Pavlović Marija, M., „Electrochemical Reduction of Microorganisms in Drinking Water“, 6th International Conference on Sustainable Energy and Environmental Protection, SEEP 2013, Conference Proceedings, pp. 327-332, University of Maribor, Faculty of Chemistry and Chemical Engineering, ISBN 978-961-248-379-1, 20th-23rd of August 2013, Maribor, Slovenia.
 18. Pavlović, M.G., **Pavlović, M.M.**, Tošković, N.D., Vasiljvić, Lj., „Device for Electrochemical Elimination of Microorganisms in Drinking Water“, International Science Conference „Reporting for Sustainability 2013“, Conference Proceedings, pp. 369-373, Norwegian Embassy and Regional Environmental Center, ISBN 978-86-7550-070-4, 07th-10th of May 2013, Bečići, Montenegro.
 19. **Pavlović, M.M.**, Pavlović, M.G., Aleksić, R., Nikolić, N., Stajić-Trošić, J., „Electrical Conductivity of the Copper Filled Lignocellulose Composites and Formation of the Conductive Pathways“, 16. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 52-58, ISBN 978-86-82343-21-9, May 27-30, 2014., Tara, Serbia.
 20. **Pavlović, M.M.**, Pavlović, Marija M., Čosović, V., Gligorić, M., Bojanić, V., „Influence of Filler Morphology on Electrical Conductivity of Biodegradable Lignocellulose Composites“, 16. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 284-293, ISBN 978-86-82343-21-9, May 27-30, 2014., Tara, Serbia.
 21. **Pavlović, M.M.**, Čosović, V., Gligorić, M., Bojanić, V., Pavlović, M.G., “Formation of the Conductive Pathways and Electrical Conductivity of the Copper Filled Lignocellulose Composites”, 6th International Scientific Conference on Defensive Technologies OTEH2014, International Conference, Proceedings, CD, pp.769-774, ISBN 978-86-81123-71-3, October 09-10, Belgrade, Serbia.
 22. **M.M. Pavlović**, V.Čosović, V. Radojević, J. Stajić-Trošić, P. Uskoković, M.G. Pavlović, „Influence of pressure on electrical conductivity of lignocellulose composites filled with electrolytic copper powder“, IV International Congress “Engineering, Ecology and Materials in the Processing Industry”, Proceedings, 04-06. March 2015., Jahorina, Bosnia & Herzegovina, ISBN 978-99955-81-17-6
 23. Z. Janković, **M. M. Pavlović**, V. Čosović, J. Stajić-Trošić, N. Nikolić, M. G. Pavlović, „The effect of filler

- morphology on thermal characteristics of lignocellulose and metal powders composites”, 17. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, CD, pp. 31-44, ISBN 978-86-82343-23-3, September 08.-11 2015, Tara, Serbia.
24. D.V. Tošković, D.Z. Rajić, **M.M. Pavlović**, N.D. Tošković, „Određivanje brzine korozije austenitnih čelika Č 4571 i Č 4580 u rastvorima kalcijum-hipohlorita“, VIII International Congress: „Contemporary materials 2015“, Proceedings, pp. 133-143, September 2015, Banja Luka, Republic of Srpska, Bosnia and Herzegovina.
25. Riđošić, M.G., Tomić, M.V., Fuchs-Godec, R., **Pavlović, M.M.**, Pavlović, M.G., Mičić M.V., “Sage Extract as Inhibitor of Copper Corrosion in 3% NaCl”, 18. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 132-140, ISBN 978-86-82343-24-0, April 12-15, 2016., Tara, Serbia.
26. Janković, Z., Rudić Mikić, Lj., Pavlovic, M. G., Gajić, A., Zarić, M., Grujić, O., **Pavlović, M.M.**, “Influence of ecologically acceptable polymer matrices on electrical conductivity of composites” 18. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 177-183, ISBN 978-86-82343-24-0, April 12-15, 2016., Tara, Serbia.
27. Pantović, M., Gajić, A., Stevanović, J., Bojanić, V., Nikolić, N., **Pavlović, M.M.**, Pavlović, M.G., “Electrical Conductivity of PMMA Composites Filled With Copper Powder” 18. YUCORR – Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection, International Conference, Proceedings, CD, pp. 283-289, ISBN 978-86-82343-24-0, April 12-15, 2016., Tara, Serbia.