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Profesionalno iskustvo Oblasti interesovanja Projekti Izabrane publikacije

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1982. Tehnološko-metalurški fakultet, Univerzitet u Beogradu, Beograd, Srbija (doktorska disertacija)

Zvanja: **1981.** Istraživač pripravnik
1984. Istraživač saradnik
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1990. Viši naučni saradnik
1995. Naučni savetnik
1997. Vanredni profesor
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Članstva u društvima: Srpskog hemijskog društva, Međunarodnog elektrohemijskog društva, redovan član Inženjerske Akademije Srbije, predsednik Udruženja inženjera Srbije za koroziju i zaštitu materijala, član Inženjerskog društva za koroziju, član Evropske federacije za koroziju.

Profesionalno iskustvo: **1982.** The University of Southampton, Dep. of Chemistry, U.K.
1985. Institute of Physical Chemistry, Madrid, Spain
1988. Institute of Chemical Technology, Praha, ČFSR
1997; 2002. Institute of Catalysis and Surface Chemistry Polish Academy of Science, Krakow, Poland
1997-2002; Tehnološki fakultet Zvornik, Univerzitet u Istočnom Sarajevu, Bosna i Hercegovina
1979. – danas, IHTM – Centar za elektrohemiju, Beograd, Srbija

Nagrade i priznanja: **2002.** Nagrada Privredne komore Beograda za najbolji pronalazak: "Elektrohemijsko dobijanje prahova bakra kontrolisanih karakteristika pomoću reverzne struje";
2007. Nagrada Privredne komore Beograda za najbolji pronalazak: "Uređaj za mikrobiološku dezinfekciju vode za piće – Eco Aqua Cleaner";
2011. Nagrada Ministarstva za prosvetu i nauku RS (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 za prosvetu i nauku RS (II mesto) u okviru takmičenja za Najbolju tehnološku inovaciju u kategoriji *Realizovane inovacije* za inovaciju: "Uređaj za mikrobiološku dezinfekciju vode elektrohemijским putem".

Oblasti interesovanja: Elektrohemijsko taloženje i rastvaranje metala i legura, korozija i zaštita materijala, elektrohemijsko taloženje metalnih prahova, elektrohemijsko inženjerstvo.

Stručne veštine: Tampon postupak-selektivno taloženje metala, metalizacija plastičnih masa, rad sa programiranim strujno-naponskim režimima.

Znanje jezika: Engleski

Najznačajniji projekti: Međunarodni:

- 2006. – 2008.** "Solving the Problem of Municipal Solid Waste in the Municipalities of North-Eastern Bosnia and Herzegovina", EU CARDS;
- 2010. – 2012.** "Creation of University-Enterprise Cooperation for Education on Sustainable Technologies", Tempus, Coordinator KaHo, Gent, Belgium.

Osnovna istraživanja:

- 1980. – 1989.** "Elektrohemijsko taloženje i rastvaranje metala".
- 1990. – 2000.** "Fundamentalni problemi galvanske tehnike".
- 2001. – 2005.** "Elektrohemijsko dobijanje prahova metala konstantnim i programiranim strujno-naponskim režimima".
- 2006. – 2010.** "Taloženje ultrafinih prahova metala i legura i nanostrukturiranih površina elektrohemijom postupcima".
- 2011. – danas** "Elektrohemijska sinteza i karakterizacija nanostrukturiranih funkcionalnih materijala za primenu u novim tehnologijama"

Primenjena istraživanja:

- 1986. – 1987.** "Galvanska linija za tvrdo hromiranje autoventila i ventila specijalne namene", "Prvi Partizan – Autoventil", Užice.
- 1993. – 1994.** "Tehnološki postupak elektrohemijom graviranja metalnih proizvoda", "IMPA", Zemun.
- 1996. – 1997.** "Razvoj postupka za zaštitu od korozije instalacija sa geotermalnom vodom", PIK "7. juli", Debrč.
- 1998. – 1999.** "Tehnološki postupak za zaštitu bakarnog praha od oksidacije i razrada njegove primene", RTB Bor, "Topionice i rafinacije bakra", Bor.
- 2001. – 2002.** "Tehnološki postupak proizvodnje CuO elektrolitičkim putem", RTB Bor, "Topionice i rafinacije bakra", Bor.

Tehnološki razvoj-Inovacioni projekti:

- 2005. – 2006.** "Razvoj uređaja za mikrobiološku dezinfekciju vode za piće".
- 2007. – 2008.** "Izrada i testiranje prototipa elektrolizera za proizvodnju hlora elektrolizom hlorovodonične kiseline".

Izabrane publikacije: Monografije, poglavlja u knjigama:

1. Popov, K.I., **Pavlović, M.G.**, Jovičević, J.N., "The shape and size of metal particles obtained during electrodeposition from aqueous solutions" in *"Advanced metallic and ceramic materials"*, (Ed. M.D.Rogers and J.Jovičević), ECSC-EEC-EAEC, Brussels - Luxembourg, 1989, pp.48-75.
2. Popov, K.I., **Pavlović, M.G.**, "Electrodeposition of Metal Powders with Controlled Particle Grain Size and Morphology", in *"Modern Aspects of Electrochemistry"*, Vol. XXIV (R.E.White, J.O' M. Bockris and B.E.Conway, eds.), Plenum Press, New York, 1992, pp.299-391.
3. **Pavlović, M.G.**, Popov, K.I., "Metal Powder Production by Electrolysis", *Electrochemistry Encyclopedia*, <http://electrochem.cwru.edu/ed/encycl/>, 2005.
4. Nikolić, N.D., Krstić, S.B., Pavlović, Lj.J., **Pavlović, M.G.**, Popov, K.I., "The mutual relation of decisive characteristics of electrolytic copper powder and effect of deposition conditions on them", in *"Electroanalytical Chemistry Research Trends"*, Ed. Kenta Hayashi, Chapter 8, 2009, pp.185-209.
5. Popov, K.I., **Pavlović, M.G.**, Živković, P.M., "Current Density Distribution in Electrochemical Cells", *Electrochemistry Encyclopedia*, <http://electrochem.cwru.edu/ed/encycl/>, 2011.
6. Bojanić V., **Pavlović, M.G.**, „New Technology for the Synthesis of New Materials Based on Cellulose and Sorption of Noble Metals" in the book *"Noble Metals"*, INTECH, ISBN: 978-953-307-898-4, 2012, pp.179-206.
7. **Pavlović, M.G.**, "Uticaj strujnog i hidrodinamičkog režima na strukturu i morfologiju metalnih taloga", u knjizi *"Primena pulsnih režima u galvanskoj tehnici"*, (urednici: Pavlović, M.G. i Dekanski, A.), Izd. IHTM-Centar za elektrohemiju, Beograd, 1992. str. 1-47.
8. Đorđević, S., Maksimović, M., **Pavlović, M.G.**, Popov, K.I, "Galvanotehnika", (urednici: Maksimović, M., Mrđenović, D.), Tehnička knjiga, Beograd, 1998, str. 1-529.
9. Antonijević, M., **Pavlović, M.G.**, Lačnjevac, Č., Mladenović, S., "Korozija i zaštita čelika" (urednici: Antonijević, M., Pavlović, M.G.), Izd. SITZAMS, Beograd, 1998, str. 1-164.
10. Mladenović, S., **Pavlović, M.G.**, Stanojević, D., "Korozija i zaštita betona i armiranog betona", (urednici: Pavlović, M.G., Stanojević, D.), Izd. SITZAMS, Beograd, 2008, str. 1-278.
11. **Pavlović, M.G.**, Stanojević D., Mladenović, S., "Korozija i zaštita materijala", (urednici: Pavlović, M.G., Stanojević, D., Pavlović, M.M.), Izd. Univerzitet u Istočnom Sarajevu, Tehnološki fakultet, Zvornik, ISBN

Publikovani radovi:

1. Popov, K.I., Maksimović, M.D., **Pavlović, M.G.**, Ostojić, G.R., "Formation of powdered copper deposits by square - wave pulsating overpotential", *J. Appl. Electrochem.*, 7, 331 (1977).
2. **Pavlović, M.G.**, Maksimović, M. D., Popov, K.I., Kršul, M.B., "The effect of pulsating overpotential on the morphology of electrodeposited silver powder particles", *J.Appl.Electrochem.*, 7, 61 (1978).
3. Popov, K. I., **Pavlović, M.G.**, Maksimović, M.D., Krstajić, S.S., "The comparison of galvanostatic and potentiostatic copper powder deposition on platinum and aluminium electrodes", *J.Appl.Electrochem.*, 8, 503 (1978).
4. Popov, K.I., **Pavlović, M.G.**, Maksimović, M.D., "The mechanism of formation of a surface film of silver on a platinum electrode in galvanostatic deposition", *J.Appl.Electrochem.* 8, 531 (1978).
5. Popov, K.I., Đukić, Lj.M., **Pavlović, M.G.**, Maksimović, M.D., "Critical overpotential of copper dendrite formation", *J.Appl.Electrochem.* 9, 527 (1979).
6. Popov, K.I., **Pavlović, M.G.**, Spasojević, M.D., Nakić, V.M., "Critical overpotential of zinc dendrite formation", *J.Appl.Electrochem.* 9, 533 (1979).
7. Popov, K.I., **Pavlović, M.G.**, Maksimović, M.D., Lukić, D.T., "The mechanism of copper powder formation in potentiostatic deposition", *J.Appl.Electrochem.*, 10, 299 (1980).
8. Popov, K.I., Maksimović, M.D., Trnjančev, J.D., **Pavlović, M.G.**, "Dendritic electrocrystallization and the mechanism of powder formation in the potentiostatic electrodeposition of metals", *J.Appl.Electrochem.*,11, 239 (1981).
9. Despić, A. R., **Pavlović, M.G.**, "Deposition of zinc on foreign substrates", *Electrochim.Acta*, 27, 1539 (1982).
10. Popov, K.I., **Pavlović, M.G.**, Maksimović, M.D., "Comparison of the critical conditions for initiation of dendritic growth and powder formation in potentiostatic and galvanostatic copper electrodeposition", *J.Appl.Electrochem.*, 12, 525 (1982).
11. Despić, A.R., **Pavlović, M.G.**, "Anodic deposition of colloidal gold", *J.Electroanal.Chem.*, 180, 31 (1984).
12. Popov, K.I., **Pavlović, M.G.**, Pavlović, Lj.J., Čekerevac, M.I., Remović, G.Ž., "Electrode surface coarsening in pulsating overpotential copper electrodeposition", *Surf.Coat.Technol.*, 34, 355 (1988).
13. Popov, K.I., Pavlović, Lj.J., **Pavlović, M.G.**, Čekerevac, M.I., "Electrode surface coarsening in potentiostatic copper electrodeposition", *Surf.Coat.Technol.*, 35, 39 (1988).
14. Popov, K.I., **Pavlović, M.G.**, Jovičević, J. N., "The morphology of tin powder particles obtained in electrodeposition on copper cathode by constant and square-wave overpotential from Sn (II) alkaline solution", *Hydrometallurgy*, 23, 127 (1989).
15. Hadžismajlović, Dž. E., **Pavlović, M.G.**, Popov, K.I., "The annulus of a spouted bed as a threedimensional electrode", *Hydrometallurgy*, 22, 393 (1989).
16. Popov, K.I., **Pavlović, M.G.**, Mitrović, B.A.Toperić, B.V., "Electrodeposition of silver powder by pulsating and reversing currents", *J.Appl.Electrochem.*, 21, 50 (1991).
17. Popov, K.I., **Pavlović, M.G.**, Remović, G.Ž., "The effect of the pause-to-pulse ratio on the morphology of metal powder particles electrodeposited by square-wave pulsating overpotential", *J.Appl.Electrochem.*, 21, 743 (1991).
18. **Pavlović, M.G.**, Hadžismajlović, Dž.E., Toperić, B.V., Popov, K.I., "Electrochemical deposition of lead powder by reversing current", *J.Serb.Chem.Soc.*, 57, (10) 687 (1992).
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21. Popov, K.I., Radmilović, V., Grgur, B.N., **Pavlović, M.G.**, "The morphology of copper electrodeposits. II. The mechanism of carrot-like electrodeposit formations", *J.Serb.Chem.Soc.*, 59 (1) 47 (1994).
22. Popov, K.I., Radmilović, V., Grgur, B.N., **Pavlović, M.G.**, "The morphology of copper electrodeposits. III. Disperse deposits formation", *J.Serb.Chem.Soc.*, 59 (2) 119 (1994).
23. **Pavlović, M.G.**, Popov, K.I., Remović, G.Ž., Komnenić, V.P., Štrbački, Ž.V., "A microscopic investigation of electrolytic copper powders deposited by reversing currents", *Hydrometallurgy*, 35, 267-274 (1994).
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- and pulsating overpotential", *J.Serb.Chem.Soc.*, **61** (1) 47 (1996).
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 29. Popov, K.I., **Pavlović, M.G.**, Stojilković, E.R., Stevanović, Z.Ž., "The current density distribution on stationary wire electrodes during copper and lead electrodeposition", *Hydrometallurgy*, **46** (1997) 321.
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 31. Radmilović, V., Popov, K.I., **Pavlović, M.G.**, Dimitrov, A., Hadži Jordanov, S., "The mechanism of silver granular electrodeposits formation", *Journal of Solid State Electrochemistry*, **2** (3) 162 (1998).
 32. Dimitrov, A.T., Hadži Jordanov, S., Popov, K.I., **Pavlović, M.G.**, Radmilović, V., "Electrodeposition of Ag from nitrate solutions. Part I. Effect of phosphate ions on morphology", *J.Appl.Electrochem.*, **28** (1998) 791.
 33. Popov, K.I., **Pavlović, M.G.**, Grgur, B.N., Dimitrov, A.T., Hadži Jordanov, S., "Electrodeposition of Ag from nitrate solution. Part II. Mechanism of the effect of phosphate ions", *J.Appl.Electrochem.*, **28** (1998) 797.
 34. Popov, K.I., Kostić, T.M., Stojilković, E.R., Nikolić, N.D., **Pavlović, M.G.**, "The determination of the optimum current wave in reversing current metal electrodeposition", *J.Serb.Chem.Soc.*, **63** (7) 537 (1998).
 35. Nikolić, N.D., Stojilković, E.R., Popov, K.I., **Pavlović, M.G.**, "Elimination of nucleation exclusion zones by electrodeposition at a reversing current", *J.Serb.Chem.Soc.*, **63** (11) 877 (1998).
 36. **Pavlović, M.G.**, Popov, K.I., Stojilković, E.R., "The effect of different deposition conditions on the morphology and grain size of electrodeposited metal powder", *Bulletin of Electrochemistry*, **14** (6-7) 211-217 (1998).
 37. Popov, K.I., Kostić, T.M., Nikolić, N.D., Stojilković, E.R., **Pavlović, M.G.**, "A new approach to metal electrodeposition at a periodically changing rate. Part I.. The reversing overpotential method", *J.Electroanal.Chem.*, **464/2** (1999) 245.
 38. Štrbac, S., Rakočević, Z., Popov, K.I., **Pavlović, M.G.**, Petrović, R., "The role of surface defects in HOPG on the electrochemical and physical deposition of Ag", *J.Serb.Chem.Soc.*, **64** (7-8) 483 (1999).
 39. Nikolić, N.D., Stojilković, E.R., Đurović, D.R., **Pavlović, M.G.**, Knežević, V.R., "The preferred orientation of bright copper deposits", *Materials Science Forum*, **352** (2000) 73-78.
 40. **Pavlović, M.G.**, Pavlović, Lj.J., Nikolić, N.D., Popov, K.I., "The effect of some parameters of electrolysis on apparent density of electrolytic copper powder in galvanostatic deposition", *Materials Science Forum*, **352**(2000) 65-72.
 41. Nikolić, N.D., Popov, K.I., Rakočević, Z., Đurović, D.R., **Pavlović, M.G.**, Stojanović, M., "The structure of bright zinc coatings", *J.Serb.Chem.Soc.*, **65** (11) 819-827 (2000).
 42. **Pavlović, M.G.**, Pavlović, Lj.J., Ivanović, E.R., Radmilović, V., Popov, K.I., "The effect of particle structure on apparent density of electrolytic copper powder", *J.Serb.Chem.Soc.*, **66**(2001) 923-933.
 43. Popov, K.I., Pavlović, Lj.J., Ivanović, E.R., Radmilović, V., **Pavlović, M.G.**, "The effect of reversing current deposition on the apparent density of electrolytic copper powder", *J.Serb.Chem.Soc.*, **67**(2002) 61-67.
 44. Popov, K.I., Krstić, S.B., **Pavlović, M.G.**, "The critical apparent density for the free flow of copper powder", *J.Serb.Chem.Soc.*, **68** (2003) 511 - 513.
 45. **Pavlović, M.G.**, Nikolić, N.D., Popov, K.I., "The current efficiency during the cathodic period of reversing current in copper powder deposition and overall current efficiency", *J.Serb.Chem.Soc.*, **68** (2003) 649 - 656.
 46. Popov, K.I., Krstić, S.B., Obradović, M.Č., **Pavlović, M.G.**, Pavlović, Lj.J., Ivanović, E.R., "The effect of the particle shape and structure on the flowability of electrolytic copper powder. I. Modeling of a representative powder particle", *J.Serb.Chem.Soc.*, **68**(2003) 771 – 777.
 47. Popov, K.I., **Pavlović, M.G.**, Pavlović, Lj.J., Ivanović, E.R., Krstić, S.B., Obradović, M.Č., "The effect of the particle shape and structure on the flowability of electrolytic copper powder. II. The experimental verification of the model of the representative powder particle", *J.Serb.Chem.Soc.*, **68**(2003) 779 – 783.
 48. **Pavlović, M.G.**, Pavlović, Lj.J., Doroslovački, I.D., Nikolić, N.D., "The effect of benzoic acid on the corrosion and stabilisation of electrodeposited copper powder", *Hydrometallurgy*, **73** (2004) 155-162.
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 50. Popov, K.I., Krstić, S.B., **Pavlović, M.G.**, Pavlović, Lj.J., Maksimović, V.M., "The effect of the particle shape and structure on the flowability of electrolytic copper powder. IV. The internal structure of the powder

- particles", *J. Serb. Chem. Soc.*, **69**(2004)817–825.
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 63. Nikolić, N.D., Popov, K.I., Pavlović, Lj.J., **Pavlović, M.G.**, "Determination of critical conditions for the formation of electrodeposited copper structures suitable for electrodes in electrochemical devices", *Sensors*, **7**(2007)1-15.
 64. Maksimović, V.M., **Pavlović, M.G.**, Pavlović, Lj.J., Tomić, M.V., Jović, V.D., "Morphology and growth of electrodeposited silver powder particles", *Hydrometallurgy*, **86**(2007)22-26.
 65. Jović, V.D., Jović, B.M., Maksimović, V., **Pavlović, M.G.**, "Electrodeposition and morphology of Ni, Co and Ni-Co alloy powders. Part II: Ammonium chloride supporting electrolyte", *Electrochim. Acta*, **52**(2007)4254-4263.
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