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Istraživač saradnik



[Profesionalno iskustvo](#) [Oblasti interesovanja](#) [Projekti](#) [Izabrane publikacije](#)

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Obrazovanje: 2002. diplomirala na Fakultetu za fizičku hemiju, Univerzitet u Beogradu
2007. magistrirala na Fakultetu za fizičku hemiju, Univerzitet u Beogradu
2013. doktorirala na Fakultetu za fizičku hemiju, Univerzitet u Beogradu

Zvanja: 2003. Istraživač pripravnik
2007. Istraživač saradnik
2015. Naučni saradnik

Članstva u društvima: Srpsko Hemijsko Društvo,
International Society of Electrochemistry

Profesionalno iskustvo: 2002. – IHTM – Centar za elektrohemiju

Oblasti interesovanja: Razvoj i elektrohemijska karakterizacija katalizatora za gorive ćelije; Kinetika i mehanizam elektrohemijske oksidacije malih organskih molekula. Elektrohemijska karakterizacija i ispitivanje katalitičkih osobina modifikovanih ugljeničnih materijala.

Stručne veštine: Površinska karakterizacija tehnikom AFM i STM mikroskopije
Elektrohemijska karakterizacija

Citiranost: 303 (bez autocitata) h index = 10

Znanje jezika: Srpski, engleski, ruski

Najznačajniji projekti: Osnovna istraživanja:

2001-2005. Elektrokataliza na nanočesticama: od model sistema do realnih katalizatora, ministarstvo za nauku, tehnologiju i razvoj, Republika Srbija 2001-2005. ON -1796

2006-2010. Kompozitni materijali na bazi ugljenika, metala i oksida metala u elektrokatalizi i procesima skladištenja Ministarstvo za nauku, tehnologiju i razvoj, Republika Srbija, ON -142048

2006-2010 Novi materijali za primenu u gorivim spregovima sa polimernom membranom, Ministarstvo za nauku, tehnologiju i razvoj, Republika Srbija ON -142056

2011-2014 Nov pristup u dizajniranju materijala za konverziju i skladištenje energije, Ministarstvo za nauku, tehnologiju i razvoj, Republika Srbija OH -172060

Izabrane publikacije:

1. Mila N Krstajic-Pajic, **Sanja I Stevanovic**, Vuk V Radmilovic, Aleksandra Gavrilovic-Wohlmuther, Velimir R Radmilovic, Snezana Lj Gojković, Vladislava M Jovanovic, "Shape evolution of carbon supported Pt nanoparticles: From synthesis and application" Applied Catalysis B: Environmental, 196 (2016) 174-184.
2. Marijana Ponjavic, Marija S Nikolic, Sanja Jevtic, Jelena Rogan, **Sanja Stevanovic**, Jasna Djonlagic, "Influence of a Low Content of PEO Segment on the Thermal, Surface and Morphological Properties of Triblock and Diblock PCL Copolymers" Macromolecular Research, Vol 24, (2016), 323-335.
3. Danijela V. Brkovic, Vladimir B. Pavlovic, Vera P. Pavlovic, Nina Obradovic, Miodrag Mitric, **Sanja Stevanovic**, Branislav Vlahovic, Petar S. Uskokovic, Aleksandar D. Marinkovic, "Structural properties of the multiwall carbon nanotubes/poly(methyl methacrylate) nanocomposites: Effect of the multiwall carbon nanotubes covalent functionalization", Polymer Composites, 2016, DOI10.1002/pc.23996
4. M.M.Vasić, P.Roupcova, N. Pizurova, **S.I.Stevanović**, V.A.Bлагоjević, Z.Tomas, D.M.Minić "Thermally Induced Structural Transformations of Fe₄₀Ni₄₀P₁₄B₆ Amorphous Alloy", Metallurgical and Materials Transactions A -PHYSICAL METALLURGY AND MATERIALS SCIENCE, (2016), vol. 47A br. 1, str. 260-267.
5. N. D. Nikolić, E. R. Ivanović, G. O. Branković, U. C. Lačnjevac, **S. I. Stevanović**, J. S. Stevanović, M. G. Pavlović, Electrochemical and Crystallographic Aspects of Lead Granular Growth, Metallurgical and materials Transactions B-Process Metallurgy and Materials Processing Science, 2015; 46: 1760-1774.
6. N.D. Nikolić, K.I. Popov, E.R. Ivanović, G. Branković, S.I. Stevanović, and P.M. Živković, "The potentiostatic current transients and the role of local diffusion fields in formation of the 2D lead dendrites from the concentrated electrolyte", J. Electroanal. Chem. 739 (2015) 137-148. doi: 10.1016/j.jelechem.2014.12.020.
7. J.L.Lović, **S.I.Stevanović**, D.V.Tripković, V.V.Tripković, R.M.Stevanović, K.Đ.Popović, V.M.Jovanović: "Formic acid oxidation at platinum-bismuth clusters" Journal of the Electrochemical Society vol. 161 br. 9, (2014) H547-H554.
8. J.D.Lović,**S.I.Stevanović**,D.V.Tripković,V.M.Jovanović,A.V.Tripković,K.Đ.Popović:"Catalytic activities of Pt thin films electrodeposited onto Bi coated glassy carbon substrate toward formic acid electrooxidation" Journal of Electroanalytical Chemistry 735 (2014) 1-9.
9. Lj. S. Živković, J. B. Bajat, J. P. Popić, B. V. Jegdić, **S.I. Stevanović**, V.B. Mišković-Stanković, "Protective properties of cathodoretic epoxy coating on aluminum alloy AA6060 modified with electrodeposited Ce-based coatings: effect of post-treatment", Proces in Organics Coatings 79 (2015) 43-52.
10. **S.Stevanović**, D.Tripković, V.Tripković, D.Minić, A.Gavrilović, A.Tripković, V.M. Jovanović: "Insight into the Effect of Sn on CO and Formic Acid Oxidation at PtSn Catalysts" The Journal of Physical Chemistry C 118 (2014) 278-289.
11. B.V.Kaluđerović, V.M.Jovanović, **S.I.Stevanović**, Ž.D.Bogdanov: "Characterization of nanoporous carbon fibrous materials obtained by chemical activation of plane tree seed under ultrasonic irradiation" Ultrasonics Sonochemistry 21 (2014) 782-789.
12. **S.I.Stevanović**, D.V.Tripković, V.V.Panić, A.B.Dekanski, V.M.Jovanović:"Platinum electrocatalyst supported on glassy carbon:a dynamic response analysis of Pt activity promoted by substrate anodization" RSC Advances 4 (2014) 3051.
13. N.Ž.Prlainović, D.I.Bezbradica, Z.D.Knežević-Jugović, **S.I.Stevanović**, M.L.Avramov Ivić, P.S.Uskoković, D.Ž.Mijin:" Adsorption of lipase from Candida rugosa on multi walled carbon nanotubes" Journal of Industrial and Engineering Chemistry 19 (2013) 279-285.
14. M.Bučko, J.Rogan, **S.I.Stevanović**, S.Stanković, J.B.Bajat:" The influence of anion type in electrolyte on the properties of electrodeposited Zn\Mn alloy coatings" Surface & Coatings Technology 228 (2013) 221-228.
15. **S.Stevanović**, D.Tripković, J.Rogan, K.Popović, J.Lović, A.Tripković, V.M.Jovanović: "Microwave-assisted polyol synthesis of carbon-supported platinum-based bimetallic catalysts for ethanol oxidation" Journal of Solid State Electrochemistry (2012) 16:3147-3157.
16. Z.Ž. Stojilković, M.L.Avramov Ivić, S.D.Petrović, D.Ž.Mijin, **S.I.Stevanović**, U.Č.Lačnjevac, A.D. Marinković:" Voltammetric and Square-Wave Anodic Stripping Determination of Amlodipine Besylate on Gold Electrode" Int. J. Electrochem. Sci., 7 (2012) 2288 - 2303

17. B.Petković, **S.Stevanović**, M.Budimir, S.P.Sovilj, V.M.Jovanović: "Electrochemical Examination of Copper(II) Complexes with Octaazamacrocyclic Ligand and Heterocyclic Dithiocarbamate" *Electroanalysis* 2012, 24, No. 7, 1605 – 1612
18. **S.I.Stevanović**, V.V.Panić, A.B. Dekanski, A.V.Tripković, V.M.Jovanović:
19. "Relationships between structure and activity of carbon as a multifunctional support for electrocatalysts" *Phys. Chem. Chem. Phys.*, 2012, 14, 9475–9485
20. B.V.Jegdić, J.B.Bajat, J.P.Popić, **S.I.Stevanović**, V.B.Mišković-Stanković: "The EIS investigation of powder polyester coatings on phosphated low carbon steel: The effect of NaNO₂ in the phosphating bath" *Corrosion Science* 53 (2011) 2872–2880.
21. M. Bučko, J.Rogan, **S.I.Stevanović**, A.Perić-Grujić, J.B.Bajat: "Initial corrosion protection of Zn–Mn alloys electrodeposited from alkaline solution", *Corrosion Science* 53 (2011) 2861–2871.
22. J.P.Popić, B.V.Jegdić, J.B.Bajat, Đ.Veljević, **S.I.Stevanović**, V.B.Mišković-Stanković: "The effect of deposition temperature on the surface coverage and morphology of iron-phosphate coatings on low carbon steel" *Applied Surface Science* 257 (2011) 10855– 10862.
23. **S.Stevanović**, D.Tripković, V.Tripković, D.Minić, A.Gavrilović, A.Tripković, V.M.Jovanović: "Enhanced Activity in Ethanol Oxidation of Pt₃Sn Electrocatalysts Synthesized by Microwave Irradiation" *Russian Journal of Physical Chemistry A*, 2011, Vol. 85, No. 13, pp. 2299–2304.
24. Lj. Kljajević, V.M. Jovanović, **S.I.Stevanović**, Ž.Bogdanov, B.Kaluđerović: "Influence of chemical agents on the surface area and porosity of active carbon hollow fibers" *J. Serb. Chem. Soc.* 76 (9) 1283–1294 (2011).
25. J.Bajat, **S.I.Stevanović**, B.M.Jokić: "Microstructure and corrosion behaviour of Zn–Co alloys deposited from three different plating baths" *J. Serb. Chem. Soc.* 76 (11) 1537–1550 (2011)
26. **S.Stevanović**, D.Tripković, D.Poleti, J.Rogan, A.Tripković, V.M.Jovanović: "Microwave synthesis and characterization of Pt and Pt–Rh–Sn electrocatalysts for ethanol oxidation" *J. Serb. Chem. Soc.* 76 (12) 1673–1685 (2011)
27. Mihael M. Bučko, **Sanja I. Stevanović**, Milorad V. Tomić, Miomir G. Pavlović, Jelena B. Bajat: "Specifičnosti elektrohemijskog taloženja i morfologija Zn–Mn prevlaka dobijenih iz pirofosfatnog elektrolita" *Hem. Ind.* 65 (3) 295–303 (2011)
28. J.B.Bajat, S.Stanković, B.M.Jokić, **S.I.Stevanović**: "Corrosion stability of Zn–Co alloys deposited from baths with high and low Co content — The influence of deposition current density", *Surface & Coatings Technology*, 204 (2010) 2745–2753.
29. **S. Stevanović**, K. Babić-Samardžija, S.P. Sovilj, A. Tripković and V.M. Jovanović: "Oxidation of formic acid on platinum surfaces decorated with cobalt(III) macrocyclic complexes ", *Russian Journal of Physical Chemistry A* 83(9) (2009)
30. **S.Stevanović**, V.Panić, D.Tripković, V.M.Jovanović: "Promoting effect of carbon functional groups in methanol oxidation on supported Pt catalyst", *Electrochem.Comm.*, 11 (2009) 18-21.
31. A.V.Tripković, K.Đ.Popović, J.D.Lović, V.M.Jovanović, **S.I.Stevanović**, D.V.Tripković, A.Kowal: "Promotional effect of Sn_{ad} on the ethanol oxidation at Pt₃Sn/C catalyst", *Electrochemistry Communications* 11 (2009) 1030-1033.
32. M.D.Obradović, G.D.Vuković, **S.I.Stevanović**, V.V.Panić, P.S.Uskoković,A.Kowal, S.LJ.Gojkovic: "A comparative study of the electrochemical properties of carbon nanotubes and carbon black", *Journal of Electroanalytical Chemistry*, 634 (2009) 22-30.
33. **S. Stevanović**, D. Tripković, A. Kowal, D. Minić, V.M. Jovanović and A. Tripković: "Influence of surface morphology on methanol oxidation at a glassy carbon-supported Pt catalyst", *J.Serb.Chem.Soc.*, 73 (8-9) 845-859, 2008.
34. V.V. Panić, **S.I. Stevanović**, V.B.Misković Stanković, B.Z. Jovanović, B.Z. Nikolić: "Photoelectrochemical properties of sol-gel obtained titanium oxide", *J.Serb.Chem.Soc.*,73 (12) 1139-1269, 2008.
35. D.Tripković, **S.Stevanović**, A.Tripković, A.Kowal,V.M.Jovanović:"Structural effect in electrocatalysis: formic acid oxidation on Pt electrodeposited on glassy carbon support", *Journal of the Electrochemical Society*, 155 (3)B281-B289 (2008).
36. **S.Terzić**, D.Tripković, V.M.Jovanović, A.Tripković, A.Kowal, "Effect of glassy carbon properties on electrochemical deposition of platinum nano-catalyst and its activity for methanol oxidation" *J.Serb.Chem.Soc.*, 72 (2007) 165-181.
37. V.V. Panić, V.M.Jovanović, **S.I.Terzić**, M.W. Barsoum, V.D.Jović, A.B.Dekanski"The properties of electroactive ruthenium oxide coatings supported by titaniu-based ternary carbides", *Surface and Coatings Technology*, 202, (2007), 319-324.
38. V.M.Jovanović, **S.Terzić** and A.Dekanski: "Characterisation and electrocatalytic application of silver

- modified polypyrrole electrodes*", *J.Serb.Chem.Soc.*, 70 (2005) 41-49
39. V.M.Jovanović, **S.Terzić**, A.V.Tripković, K.Dj.Popović, J.D.Lović: "The effect of electrochemically treated glassy carbon on the activity of supported Pt catalyst in methanol oxidation", *Electrochem. Comm.*, 6 (2004) 1254-1258.

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