



## Dr Vladislava M. Jovanović

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**Profesionalno iskustvo**   **Oblasti interesovanja**   **Projekti**   **Izabrane publikacije**

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**Profesionalno iskustvo:** 1989 na Department of Chemistry, Birkbeck College, University of London (UK) (Dr Jonathan Slater)  
1996 - 1998 na Department of Chemistry, Rice University, Houston, Texas (USA) (Prof. Norman Hackerman)

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- "Energy Efficient Electrode Materials, Inert Substrate – Surface Activated Systems" (SAD- YU), Department of Energy Contract Energy 675, 1986 – 1989.
- "Novel Conducting Ion-Selective Electrodes", (ALIS Link No. 255, British Council, UK), 1990-1992 (rukovodilac)
- "Electrochemical Reduction of Carbon Dioxide on Modified Surfaces", IHTM-Centar za elektrohemiju - Department of Physical Chemistry, University of Bonn, Germany, Co. No. CI1\*CT90-0866 (TS TS) (EU), 1991-1993.
- "Electrochemical Studies of Processes at electrode/electrolyte Interface " (The Robert A. Welsh fondacija, C-426, Hjuston, Teksas, SAD) 1996-1998
- "Synthesis, Characterisation and Possible Antimicrobial Applications of Mixed-Ligand Dinuclear Cu(II) and Co(II) Complexes", (NCSR - Demokritos, Greece - Hemijiski fakultet Univerziteta u Beogradu)

**Osnovna istraživanja:**

- "Elektrodika, elektrokataliza i elektrohemijiska konverzija energije" (MNT Republike Srbije), (O2E20), 1985-2000
- "Elektrokataliza na nanočesticama: od model sistema do realnih katalizatora", (MNT Srbije), (H-1796), 2001-2005
- "Novi materijali za primenu u gorivim spregovima sa polimernom membranom", (MNT Srbije), (H-142056), 2006-2010
- "Kompozitni materijali na bazi ugljenika metala i oksida metala u elektrokatalizi i procesima skladištenja energije", (MNT Srbije), (B-142048), 2006-2010
- "Nov pristup u dizajniranju materijala za konverziju i skladištenje energije", (Ministarstvo prosvete i nauke Srbije), (OI-172060), 2011-2016

#### Primenjena istraživanja:

- "Primena jon-selektivnih elektroda sa čvrstom membranom sopstvene proizvodnje u poluindustrijskim postrojenjima" (SMNTR), (TSI 317) 1993-1996, (rukovodilac)

#### Izabrane publikacije: Monografije, poglavlja u knjigama:

1. K.Babić-Samardžija, S.P.Sovilj and V.M.Jovanović: "Molecular structure of metal enolates" in "The chemistry of metal enolates" Ed. Jacob Zabicky, A John Wiley and Sons, Ltd. Publication, England, 2009 81-131.

#### Publikovani radovi:

1. Mila N. Krstajić Pajić, Sanja I. Stevanović, Vuk V. Radmilović, Aleksandra Gavrilović-Wohlmuther, Velimir R. Radmilović, Snežana Lj. Gojković, Vladislava M. Jovanović: "Shape evolution of carbon supported Pt nanoparticles: From synthesis to application", *Applied Catalysis B: Environmental* 196 (2016) 174–184
2. Lovic Jelena D., Stevanovic Sanja I., Tripkovic Dusan V., Tripkovic Amalija V., Stevanovic Rade M., Jovanovic Vladislava M., Popovic Ksenija Dj.: "Insight into electrocatalytic stability of low loading Pt-Bi/GC and Pt/GC clusters in formic acid oxidation", *J. Solid State Electrochem.*, 19 (2015) 2223-2233
3. B.V. Kaludjerovic, V.M. Jovanovic, S.I. Stevanovic, Z.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
4. 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", *J. Phys. Chem. C*, 118 (2014) 278-289
5. A.R. Mladenović, D.Ž. Mijin, S.Ž. Drmanić, V.E. Vajs, V.M. Jovanović, S.D. Petrović and M.L. Avramov Ivić: "Electrochemical oxidation of donepezil and its voltammetric determination at gold electrode", *Electroanalysis* 26 (5) (2014) 893-897
6. J.D. Lović, S.I. Stevanović, D.V. Tripković, V.V. Tripković, R.M. Stevanović, K.Dj. Popović and Vladislava M. Jovanović: "Formic acid oxidation at platinum-bismuth clusters", *J. Electrochemical Society* 161 (9) (2014) H547-H554
7. S.I. Stevanović, D.V. Tripković, V.V. Panić, A.B. Dekanski and V.M. Jovanović: "Platinum electrocatalyst supported on glassy carbon: a dynamic response analysis of Pt activity promoted by substrate anodization", *RSC Advances*, 4, (2014), 3051-3059
8. J.D. Lovic, S.I. Stevanovic, D.V. Tripkovic, V.M. Jovanovic, R.M. Stevanovic, A.V. Tripkovic, K.Dj. Popovic: "Catalytic activities of Pt thin films electrodeposited onto Bi coated glassy carbon substrate toward formic acid electrooxidation", *J. Electroanal. Chem.* 735 (2014) 1–9
9. Z.Z. Stoiljković, V.M. Jovanović, D.Ž. Mijin, V. Nikolić, Lj. Nikolić, S.D. Petrović and M.L. Avramov Ivić: "The Electrochemical Investigation of Inclusion Complexes of Nifedipine and Amlodipine with  $\beta$ -Cyclodextrin and (2-Hydroxypropyl)- $\beta$ -Cyclodextrin", *Int. J. Electrochem. Sci.*, 8 (2013) 9543-9557
10. B.B. Petković, M. Milčić, D. Stanković, I. Stambolić, D. Manojlović, V.M. Jovanović, S.P. Sovilj: "Complexation ability of octaazamacrocyclic ligand toward Co<sup>2+</sup>, Ni<sup>2+</sup>, Cu<sup>2+</sup> and Zn<sup>2+</sup> metal cations: Experimental and theoretical study", *Electrochim. Acta* 89 (2013) 680-687
11. J.D. Lović, D.V. Tripković, K.Đ. Popović, V.M. Jovanović and A.V. Tripković: "Electrocatalytic properties of Pt-Bi electrodes towards the electrooxidation of formic acid", *J. Serb. Chem. Soc.*, 78 (8) (2013) 1189–1202
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13. A.R. Mladenović, V.M. Jovanović, S.D. Petrović, D.Ž. Mijin, S.Ž. Drmanić, M.L. Avramov-Ivić: "Determination of clopidogrel using square wave voltammetry at a gold electrode", *J. Serb. Chem. Soc.* 78 (12) (2013) 2131–2140
14. J. D. Lović, M. D. Obradović, D. V. Tripković, K. Dj. Popović, V. M. Jovanović, S. Lj. Gojković and A. V. Tripković: "High Activity and Stability of Pt<sub>2</sub>Bi Catalyst in Formic Acid Oxidation", *Electrocatalysis* 3 (3-4) (2012) 346-352.
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17. S. Stevanović, D. Tripković, J. Rogan, K. Popović and J. Lović, A. Tripkovic and V.M.Jovanovic: "Microwave-assisted polyol synthesis of carbon-supported platinum-based bimetallic catalysts for ethanol oxidation", *J. Solid State Electrochemistry*. 16 (2012) 3147-3157
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49. V.M.Jovanović, K.Babić-Samardžija and S.P.Sovilj: "Electrochemical Characterization of Mixed-Ligand Cobalt(III) Complexes with Tetraazamacrocyclic Ligand and Heterocyclic Dithiocarbamates", *Electroanalysis* 13 (13) (2001) 1129-1135
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#### Saopštenja:

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- Pt Anodic Catalysts for DFAFC", 5<sup>th</sup> RSE-SEE, Pravets, Bulgaria 2015, Program and the Book of Abstracts, Bulgarian Academy of Sciences, Sofia, Bulgaria, pp.78-79, ESC-O-18, ISBN 978-954-92483-4-0; <http://www.rse-see.eu/>
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