

FIRST NAME AND SURNAME Ivana Stojković Simatović

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EDUCATION AND PROFESSIONAL TRAINING

Elementary school and High school finished in Belgrade, Serbia

2003 Graduated from the Faculty of Physical Chemistry, University of Belgrade, Serbia

2007 MSc, Faculty of Physical Chemistry, University of Belgrade, Serbia

2010 PhD, Faculty of Physical Chemistry, University of Belgrade, Serbia

RESEARCH INTEREST

Chemical power sources. Lithium-ion batteries with organic and aqueous electrolyte. Synthesis of electrode materials by different methods (sol-gel method, hydrothermal method, solid state reaction). Fuel cell.

AWARDS AND FELLOWSHIPS

2010 The Award for the best PhD thesis at the YUCOMAT 2010 conference

2010 Nikola Tesla silver medal at the Exhibition of Belgrade Association of Inventors

2010 IUPAC Poster Prize at the 48th Meeting of the Serbian Chemical Society in Novi Sad

2007 The Award for the best MSc thesis at the YUCOMAT 2007 conference

2004 Special recognition of Serbian Chemical Society

2003 – april 2005 Scholar of Ministry of Science and Environment of the Republic of Serbia on Faculty of Physical Chemistry

2003 Scholar of The Royal Norwegian Embassy

1999/2003 Scholar of Ministry of Education and Sports of the Republic of Serbia

ADDITIONAL INFORMATION

2003 – April 2005 Scholar of Ministry of Science and Environment of the Republic of Serbia at the Faculty of Physical Chemistry

2005 – December 2008 Graduate Assistant, Faculty of Physical Chemistry, University of Belgrade

December 2008 – present Teaching Assistant, Faculty of Physical Chemistry, University of Belgrade

2007 – 2009 Teaching Assistant, Faculty of Agriculture, University of Belgrade

2012 – present Assistant professor, Faculty of Physical Chemistry, University of Belgrade

PARTICIPATION IN PROJECTS

2004 – 2006 Project of Ministry of Science and Environment of the Republic of Serbia, No 1399

2006 – 2008 International project: Agreement on Research Cooperation on the Electrode Materials for Lithium Polymer Batteries, (Varta Microbattery GmbH / University of Belgrade – Faculty of Physical Chemistry).

2006 – 2010 Project of Ministry of Science and Environment of the Republic of Serbia, No 142047

2010 – on going Project of Ministry of Science and Technological Development of the Republic of Serbia, No III45014

2013-2014 Project coordinator of Bilateral project between Serbia (University of Belgrade, Faculty of Physical Chemistry) and Portugal (IST-ID): Transition metal oxide-based materials for lithium-ion batteries.

PUBLICATIONS

1. César A.C. Sequeira, Biljana Šljukic, Milica Vujkovic, Ivana Stojkovic Simatovic, Luis Amaral and Diogo M.F. Santos, "Developments in secondary batteries", Chapter 12, In: ENERGY, SCIENCE & TECHNOLOGY- FUEL CELLS AND BATTERIES, Vol. 10, Ed. J.N. Govil, Studium Press LLC, USA, ISBN 1-62699-071-9, pp. 271-313. (2015).
2. Miloš Milović, Dragana Jugović, Miodrag Mitrić, Robert Dominko, Ivana Stojković Simatović, Bojan Jokić, Dragan Uskoković, The use of methylcellulose for the synthesis of $\text{Li}_2\text{FeSiO}_4/\text{C}$ composites, *Cellulose* 23, (2016), 239-246.
3. Nikola Cvjetičanin, Ivana Stojković, Miodrag Mitrić, Slavko Mentus, „Cyclic voltammetry of $\text{LiCr}_{0.15}\text{Mn}_{1.85}\text{O}_4$ in an aqueous LiNO_3 solution”, *Journal of Power Sources*, 2 (2007) 1117-1120.
4. Mirjana Mališić, Aleksandra Janošević, Biljana Šljukić Paunković, Ivana Stojković, Gordana Ćirić-Marjanović, Exploration of MnO_2 /carbon composites and their application to simultaneous electroanalytical determination of Pb(II) and Cd(II) , *Electrochimica Acta*, 74 (2012) 158–164.
5. M.Vujković, I. Stojković, M. Mitrić, N. Cvjetičanin, S. Mentus, Hydrothermal synthesis of $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ nanostructured composites: morphology and electrochemical performance, *Materials Research Bulletin*, 48 (2013) 218-223.
6. M. Vujković, I. Stojković, N. Cvjetičanin, S. Mentus, Gel-combustion synthesis of LiFePO_4 composite with improved capacity retention in aerated aqueous electrolyte solution, *Electrochimica Acta*, 92 (2013) 248-256.
7. Milica Vujković, Dragana Jugović, Miodrag Mitrić, Ivana Stojkovic, Nikola Cvjetičanin, Slavko Mentus, The $\text{LiFe}_{(1-x)}\text{V}_x\text{PO}_4/\text{C}$ composite synthesized by gel-combustion method, with improved rate capability and cycle life in aerated aqueous solutions, *Electrochimica Acta*, 109 (2013) 835-842.
8. M. Vujković, B. Šljukić Paunković, I. Stojković Simatović, M. Mitrić, C.A.C. Sequeira, S. Mentus, Versatile insertion capability of $\text{Na}_{1.2}\text{V}_3\text{O}_8$ nanobelts in aqueous electrolyte solutions, *Electrochimica Acta*, 147 (2014), 167-175.
9. M. Vujković, I. Pašti, I. Stojković Simatović, B. Šljukić, M. Milenković, S. Mentus, The influence of intercalated ions on cyclic stability of $\text{V}_2\text{O}_5/\text{graphite}$ composite in aqueous electrolytic solutions: experimental and theoretical approach, *Electrochimica Acta*, 176 (2015), 130-140.
10. Sanja Milošević, Ivana Stojković, Miodrag Mitrić, Nikola Cvjetičanin, High performance of solvothermally prepared $\text{VO}_2(\text{B})$ as an anode for aqueous rechargeable lithium batteries, *Journal of the Serbian Chemical Society*, 80 (2015) 685–694.

11. Aleksandar Jović, Aleksandar Đorđević, Maria Čebela, Ivana Stojković Simatović, Radmila Hercigonja, Biljana Šljukić, Composite zeolite/carbonized polyaniline electrodes for p-nitrophenol sensing, *Journal of Electroanalytical Chemistry*, 778, (2016), 137–147.
12. I. Stojković, A. Hosseinmardi, D. Jugović, M. Mitrić, N. Cvjetičanin, „Rapid Synthesis of $\text{LiCr}_{0.15}\text{Mn}_{1.85}\text{O}_4$ by Glycine-nitrate Method”, *Solid State Ionics*, 177 (2006), 847-850.
13. Ivana Stojković, Nikola Cvjetičanin, Igor Pašti, Miodrag Mitrić, Slavko Mentus, „Electrochemical behaviour of V_2O_5 xerogel in aqueous LiNO_3 solution”, *Electrochemistry Communications*, 11(2009), 1512-1514.
14. Ivana Stojković, Nikola Cvjetičanin, Slavko Mentus, „The improvement of the Li-ion insertion behaviour of $\text{Li}_{1.05}\text{Cr}_{0.10}\text{Mn}_{1.85}\text{O}_4$ in an aqueous medium upon addition of vinylene carbonate”, *Electrochemistry Communications*, 12 (2010), 371-373.
15. Ivana Stojkovic, Nikola Cvjeticanin, Miodrag Mitric, Slavko Mentus, „Electrochemical properties of nanostructured $\text{Li}_{1.2}\text{V}_3\text{O}_8$ in aqueous LiNO_3 solution”, *Electrochimica Acta*, 56 (2011), 6469-6473.
16. Sanja Milošević, Ivana Stojković, Sandra Kurko, Jasmina Grbović Novaković, Nikola Cvjetičanin, „The simple one-step solvothermal synthesis of nanostructured $\text{VO}_2(\text{B})$ ”, *Ceramics International*, 38 (2012), 2313–2317.
17. Senčanski Jelena V., Vujković Milica J., Stojković Ivana B., Majstorović Divna M., Bajuk-Bogdanović Danica V., Pastor Ferenc T., Mentus Slavko V., Recycling of $\text{LiCo}_{0.59}\text{Mn}_{0.26}\text{Ni}_{0.15}\text{O}_2$ cathodic material from spent Li-ion batteries by the method of the citrate gel combustion, *Hemijska industrija*, 71 (2017), 211–220.
18. I. Stojković, N. Cvjetičanin, S. Marković, M. Mitrić and S. Mentus, „Electrochemical Behaviour of V_2O_5 Xerogel and V_2O_5 Xerogel/C Composite in an Aqueous LiNO_3 and $\text{Mg}(\text{NO}_3)_2$ Solutions”, *Acta Physica Polonica Series A*, 117 (2010) 837-840.
19. Vujković Milica, Cvjetičanin Nikola, Gavrilov Nemanja, Stojković Ivana, Mentus Slavko, „Electrochemical behavior of nanostructured MnO_2/C (Vulcan®) composite in aqueous electrolyte LiNO_3 ”, *Hemijska industrija*, 65 (2011) 287–293.
20. Biljana Šljukić, Ivana Stojković, Nikola Cvjetičanin, Gordana Ćirić-Marjanović, „Hydrogen peroxide sensing at $\text{MnO}_2/\text{carbonized}$ nanostructured polyaniline electrode”, *Russian Journal of Physical Chemistry A*, 85 (2011) 2406-2409.
21. I. Stojkovic, N. Cvijeticanin and S. Mentus, „Improvement of the cycle life of composite xerogel $\text{V}_2\text{O}_5/\text{C}$ in aqueous LiNO_3 solution”, *Russian Journal of Physical Chemistry A*, 85 (2011) 2344-2348.

PATENT APPLICATIONS

1. Lithium-ions battery $\text{LiMn}_2\text{O}_4 / \text{H}_2\text{O}$, $\text{LiNO}_3 / \text{Li}_{1.2}\text{V}_3\text{O}_8$ with aqueous electrolyte, No P-2011/0105
2. Aqueous lithium-ions battery of type $\text{Li}_{1.05}\text{Cr}_{0.10}\text{Mn}_{1.85}\text{O}_4 / \text{LiNO}_3 / \text{V}_2\text{O}_5$ with addition of additive vinylene carbonate (VC), No P-2009/0274
3. Lithium-ions battery of type $\text{LiMn}_2\text{O}_4 / \text{H}_2\text{O}$, $\text{LiNO}_3 / \text{V}_2\text{O}_5$ with aqueous electrolyte, No P-2008/0486
4. $\text{LiFe}_{0.95}\text{V}_{0.05} \text{PO}_4/\text{C}$ composite as electrode material for secondary Li ion batteries with aqueous electrolytic solution, the number of patent application, No P-2012/0243