

Jadranka Milikić je rođena 09.10.1987. godine u Prijepolju



Obrazovanje:

Doktorske studije, Fakultet za fizičku hemiju, Univerzitet u Beogradu
(2012 –2016)

Tema Doktorske teze: Elektrokatalitički materijali za oksidaciju borhidrida

Master studije, Fakultet za fizičku hemiju, Univerzitet u Beogradu (2011 – 2012)

Tema Master rada: Primena katalizatora na bazi mangan dioksida u direktnim borhidridnim gorivnim ćelijama

Osnovne studije, Fakultet za fizičku hemiju, Univerzitet u Beogradu (2006 – 2011)

Tema Završnog rada : Redukcija kiseonika na elektrodamu na bazi oksida metala

Srednja škola, Medicinska skola “Beograd” u Beogradu (2002 – 2006)

Istraživačko iskustvo:

- Trenutno je učesnik na projektu br. ОИ172043 »Elektroprovodni i redoks-aktivni polimeri i oligomeri: sinteza, struktura, svojstva i primena« Ministarstvo za prosvetu, nauku i tehnološki razvoj Republike Srbije, od dec. 2016.
- Učesnik na projektu bilateralne saradnje Srbija – Slovenija »Fundamentalni uvid u katlizu gorivnih ćelija«, od sredine 2018 do sredine 2019.
- Učesnik na projektu bilateralne saradnje Srbija – Portugal »Oksidi prelaznih metala kao elektrodni materijali za litijum jonske baterije«, od jan. 2012 do dec. 2014.
- Volonter na projektu br. III45014 »Litijum-jon baterije i gorivne ćelije: istraživanje i razvoj«, Ministarstvo za prosvetu, nauku i tehnološki razvoj Republike Srbije, od sept. 2012 do dec. 2016.
- Volonter na projektu br. III45004 Ministarstva za prosvetu, nauku i tehnološki razvoj Republike Srbije, od nov. 2013 do aprila 2014.

- Korisnik stipendije Ministarstva za prosvetu, nauku i tehnološki razvoj Republike Srbije za sufinansiranje postdoktorskog usavršavanja na Instituto Superior Técnico u Lisabonu, u periodu od sep. do dec. 2018.

Bibliografija

Radovi objavljeni u naučnim časopisima međunarodnog značaja:

❖ **Međunarodni časopis izuzetnih vrednosti (M_{21a}):**

1. Gordana Backović, **Jadranka Milikić**, Serena De Negri, Adriana Saccone, Biljana Šljukić, Diogo M.F. Santos, Enhanced borohydride oxidation kinetics at gold-rare earth alloys, Journal of Alloys and Compounds 857 (2020) 158273.
<https://www.sciencedirect.com/science/article/pii/S0925838820346363> IF(2019) 4.605
2. **Jadranka Milikić**, Marta Martins, Ana S. Dobrota, Gamze Bozkurt, Gulin S.P. Soylu, Ayşe B. Yurtcan, Natalia V. Skorodumova, Igor A. Pašti, Biljana Šljukić, Diogo M.F. Santos, A *Pt/MnV₂O₆* nanocomposite for the borohydride oxidation reaction, Journal of Energy Chemistry 55 (2021) 428-436.
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3. Raisa C.P. Oliveira, **Jadranka Milikić**, Elif Daş, Ayşe B. Yurtcan, Diogo M.F. Santosa, Biljana Šljukić, Platinum/polypyrrole-carbon electrocatalysts for direct borohydride peroxide fuel cells, Applied Catalysis B: Environmental 238 (2018) 454–464.
<https://doi.org/10.1016/j.apcatb.2018.06.057> IF(2018) 14.229
4. Aleksandar Jović, **Jadranka Milikić**, Danica Bajuk-Bogdanović, Maja Milojević-Rakić, Bojana Nedić, Vasiljević, Jugoslav Krstić, Nikola Cvjetićanin, Biljana Šljukić, 12 phosphotungstic Acid Supported on BEA Zeolite Composite with Carbonized Polyaniline for Electroanalytical Sensing of Phenols in Environmental Samples, Journal of The Electrochemical Society, 165 (16) H1013-H1020 (2018).
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5. **Jadranka Milikić**, Sladjana Marić, Nikola Cvjetićanin, Zorana Dohčević-Mitrović and Biljana Šljukić, Facile Preparation and High Activity of TiO₂ Nanotube Arrays toward

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7. Ivan Stosevski, Jelena Krstić, **Jadranka Milikić**, Biljana Šljukić, Zorica Kacarević Popović, Slavko Mentus, Šćepan Miljanić, *Radiolitically synthesized nano Ag/C catalysts for oxygen reduction and borohydride oxidation reactions in alkaline media, for potential applications in fuel cells*, Energy, 101 (2016) 79-90.

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❖ **Vrhunski međunarodni časopis (M_{21}):**

1. Kristina Radinović, Jadranka Milikić, Diogo M. F. Santos, Adriana Saccone, Serena De Negri, Biljana Šljukić, *Electroanalytical Sensing of Trace Amounts of As(III) in Water Resources by Gold–Rare Earth Alloys*, Journal of Electroanalytical Chemistry 872 (2020) 114232.

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2. **Jadranka Milikić**, Una Stamenović, Vesna Vodnik, Scott P. Ahrenkiel, Biljana Šljukić, *Gold nanorod-polyaniline composites: Synthesis and evaluation as anode electrocatalysts for direct borohydride fuel cells*, Electrochimica Acta 328 (2019) 135115.

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3. **Jadranka Milikić**, Milica Vasić, Luís Amaral, Nikola Cvjetićanin, Dragana Jugović, Radmila Hercigonja, Biljana Šljukić, *NiA and NiX zeolites as bifunctional electrocatalysts for water splitting in alkaline media*, International Journal of Hydrogen Energy, 43 (2018) 18977-18991.

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4. Marta Martins, **Jadranka Milikić**, Biljana Šljukić, Gülin S. P. Soylu, Ayşe B.Yurtcan, Gamze Bozkurt, Diogo M.F.Santosa, *Mn₂O₃-MO (MO = ZrO₂, V₂O₅, WO₃) supported PtNi nanoparticles: Designing stable and efficient electrocatalysts for oxygen reduction and borohydride oxidation*, Microporous and Mesoporous Materials, 273 (2019) 286-293.

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7. Biljana Šljukić, **Jadranka Milikić**, Diogo F. M. Santos, Cesar A. C. Sequeira, *Carbon-Supported Pt_xM_y Electrocatalysts for Borohydride Oxidation*, Electrochimica Acta 107 (2013) 577–583.

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❖ Istaknuti međunarodni časopisi (M₂₂):

1. **Jadranka Milikić**, Aldona Balčiūnaitė, Zita Sukackienė, Dušan Mladenović, Diogo M. F. Santos, Tamašauskaitė-Tamašiūnaitė and Biljana Šljukić, *Bimetallic Co-Based (CoM, M = Mo, Fe, Mn) coatings for high-efficiency water splitting*, Materials 2021, 14, 1-15.

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3. **Jadranka Milikić**, Raisa C. P. Oliveira, Ivan Stoševski, Jugoslav Krstić, Radmila Hercigonja, Šćepan Miljanic, Diogo M. F. Santos and Biljana Šljukić, *Evaluation of silver-incorporating zeolites as bifunctional electrocatalysts for direct borohydride fuel cells*, New Journal of Chemistry 43 (2019) 14270-14280.

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4. **Jadranka Milikić**, Ivan Stoševski, Jelena Krstić, Zorica Kačarević-Popović, Šćepan Miljanic and Biljana Šljukić, *Electroanalytical sensing of bromides using radiolytically synthesized silver nanoparticle electrocatalysts*, Journal of Analytical Methods in Chemistry 2017 (2017) 1-9.

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Zbornici sa međunarodnih naučnih skupova

❖ Saopštenja na skupovima međunarodnog značaja štampani u celini (M_{33}):

1. **Jadranka Milikić**, Kristina Radinović, Una Stamenković, Vesna Vodnik, S. P. Ahrenkiel, Biljana Šljukić, *Au-PANI sensors for detection of arsenic in aqueous media*, Physical Chemistry 2018, September 24-28, 2018, Belgrade.
2. Aleksanda Rakić, **Jadranka Milikić**, Biljana Šljukić, Igor Pašti, Gordana Ćirić-Marjanović, *Electrochemical performance of carbonised composite of polyaniline with collagen*, Physical Chemistry 2018, September 24-28, 2018, Belgrade.
3. Biljana Šljukic, **Jadranka Milikić**, Diogo M. F. Santos, César A C Sequeira, *Alternative, non-Pt electrocatalysts for O₂ reduction*, Physical Chemistry 2012, September 24-28, 2012. Belgrade, Serbia, The Book of Abstracts , proceeding Volume I p. 327-329.
4. **Jadranka Milikić**, Ivan Stoševski, Jelena Krstić, Zorica Kačarević–Popović, Šćepan Miljanić and Biljana Šljukić, *Electroanalytical sensing of halogenides using radiolitically synthesized silver nanoparticle electrocatalyst*, Physical Chemistry 2016, 26-30 September, 2016, Belgrade.

❖ Saopštenja na skupovima međunarodnog značaja štampani u izvodu (M_{34}):

1. Kristina Radinović, **Jadranka Milikić**, Nikola Cvjetićanin, Tanja Barudžija, Biljana Šljukić, Electroanalytical Detection of Trace Arsenic(III) in Aqueous Media Using AgMnO₂ Electrode, 71st Annual Meetingof the International Society of Electrochemistry 30 August - 4 September 2020 Belgrade, Serbia
2. **Jadranka Milikić**, Una Stamenović, Vesna Vodnik, and Biljana Šljukić, Evaluation of Silver-Polyaniline-Polyvinylpyrrolidone Samples for The Borohydride Oxidation Reaction, 71st Annual Meetingof the International Society of Electrochemistry 30 August - 4 September 2020 Belgrade, Serbia
3. **Jadranka Milikić**, Sara Knežević, Radmila Hercigonja and Biljana Šljukić, *CuX and NiX Nanozeolites as Electrocatalysts for Alkaline Oxygen Evolution Reaction*, 71st Annual

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4. Diogo Santos, **Jadranka Milikić**, Biljana Sljukic, Una Stamenovic, Andres Tapia and Vesna Vodnik, *Novel Au/PPy and Cu/PPy Nanocomposites as Electrocatalysts for Borohydride Oxidation*, 25th Topical Meeting of the International Society of Electrochemistry, 12-15 May, 2019, Toledo, Spain.
5. Biljana Sljukic, Filipe Figueiredo, Rodolfo Fuentes, Jelena Georgijevic, **Jadranka Milikić** and Diogo Santos, *Nickel-Doped Ceria Bifunctional Electrocatalysts for Oxygen Reduction and Evolution in Alkaline Media*, 25th Topical Meeting of the International Society of Electrochemistry, 12-15 May, 2019, Toledo, Spain.
6. Milica M. Vasić, **Jadranka Milikić**, Luís Amaral, Nikola Cvjetićanin, Dragana Jugović, Radmila Hercigonja, Biljana Šljukić, *NiA and NiX zeolites as electrocatalysts for water splitting in alkaline media*, Materials Science for Energy Related Applications, September 25-26, 2018, Belgrade.
7. Aleksanda Rakić, **Jadranka Milikić**, Jelena Krstić, Biljana Šljukić, Igor Pašti, Gordana Ćirić-Marjanović, *The influence of hydrolysed collagen on capacitance properties of carbonised polyaniline*, Materials Science for Energy Related Applications, September 25-26, 2018, Belgrade.
8. Nikola Zdolšek, **Jadranka Milikić**, Slavko Mentus, Magdalena Bendova, Tatjana Trtić-Petrović, Biljana Šljukić, *Metal containing ionic liquid- new precursor for nickel-carbon composite catalyst for borohydride oxidation and oxygen reduction reaction*, Materials Science for Energy Related Applications, September 25-26, 2018, Belgrade.
9. Nenad Filipović, Magdalena Stevanović, Jelena Djurdjević, **Jadranka Milikić**, Ljiljana Veselinović, Vladimir Pavlović, Dragan Uskoković, *Facile chemical synthesis and characterization of polyester/magnesium oxide nanoparticles for biomedical application*, The sixteenth annual Materials Research Society Conference YUCOMAT 2014, Herceg Novi, Montenegro, September 1-5, 2014.
10. Giuseppe Digilio, Magdalena Stevanović, Nenad Filipović, Jelena Đurđević, **Jadranka Milikić**, Lorenzo Tei, Valeria Catanzaro, Sergio Padovan, Carla Carrera, Silvio Aime, *Gadolinium labelled microparticles as cell scaffolds for cell transplantation*, European molecular imaging meeting EMIM 2014, Antwerp, Belgium June 4-6, 2014.
11. Biljana Šljukić, **Jadranka Milikić**, Diogo M.F. Santosand César A. C. Sequeira, *Rotating disc electrode study of the borohydride oxidation at Pt electrocatalysts*, HYCELTEC 2013: IV Iberian Symposium on Hydrogen, Fuel Cells and Advanced Batteries, Estoril, Portugal, June 26-28, 2013.