Научном већу
Института техничких наука САНУ
Кнез Михаилова 35/IV
Београд

Молба за образовање комисије за реизбор у звање научни сарадник

Молим Научно веће Института техничких наука САНУ, да у складу са Правиликом о поступку и начину вредновања, и кавантитативном исказивању научно – истраживачких резултата истрачивача (Службени Гласник РС, бр. 24/2016 и 21/2017) на основу чл. 2, чл. 3 о праву на реизбор у звање научни сарадник, чл. 32, чл. 35 о условима за реизбор у звање научни сарадник, као и чл. 49 који се односи на избор у звање виши научни сарадник након реизбора у звање научног сарадника, да покрене поступак мога реизбора у звање научни сарадник и да сагласност за формирање комисије за припрему извештаја за реизбор у звање научни сарадник. Стога Научноме већу предлажем комисију у саставу:

1. проф. др Ненад Игњатовић, научни саветник ИТН САНУ
2. др Лидија Т. Манчић, научни саветник ИТН САНУ
3. доц. др Ђорђе Вељовић, доцент на Катедри за неорганску хемију ТМФ у Београду

У прилогу достављам:

1. Биографију
2. Библиографију
3. Извештај о цитираности радова
4. Решење о избору у звање научни сарадник

У Београду 20. Новембра 2019. године

Подносилац захтева с.р.:

Zl.Stojanović

др Зоран Стојановић
научни сарадник ИТН САНУ

Прилог 1

Биографија

Зоран Стојановић рођен је 2. марта 1978. године у Вршцу, Република Србија. Завршио је гимназију у Вршцу природно – математичког смера 1997. и исте године уписао Технолошко металуршки факултет у Београду. Дипломирао је на Катедри за хемијско инжењерство 2004. године дипломским радом “Динамика апсорпције/десорпције влаге из ваздуха на пакованом слоју зеолита”. Постдипломске студије наставља на истом факултету 2006. године. Запослен је на Институту техничких наука САНУ од 2007. године на пројекту Министарства науке и технолошког развоја Републике Србије “Синтеза функционалних материјала са контролисаном структуром на молекуларном и нанонивоу” до 2011. а затим на пројекту “Молекуларно дизајнирање наночестица са контролисаним морфолошким и физико – хемијским особинама и функционалних материјала на њиховој основи” до данас. У оквиру ових пројеката 2009. године брани магистарски рад под насловом “Хидротермална синтеза наноструктурних оксидних прахова и њихова карактеризација” на Технолошко металуршком факултету на Катедри за специјалне и конструкционе материјале, а потом 2014. године докторску дисертацију под насловом “Проучавање процеса синтезе и својстава вишефазних оксидних прахова добијених хидротермалним процесирањем” на истој катедри. Изабран је у звање научни сарадник одлуком Министарства науке, просвете и технолошког развоја 20. маја 2015. године.

У току истраживања на магистарским студијама борави први семестар 2007. године на Катедри за неорганску хемијску технологију и материјале Факултета за хемију и хемијску технологију у Љубљани. Део експерименаталног рада тада реализује такође на Институту Јожеф Штефан и Хемијском институту у Љубљани. Добио је награду на најбољу магистарску тезу између две YUCOMAT конференције 2010. године. У оквиру докторских студија борави један семестар 2012. године као гостујући истраживач на Институту за биомедицинска истраживања при Корејском институту за науку и технологију (KIST) у Сеулу. Учествовао је на бројим домаћим и страним научним конференцијама. Учествовао је у научном делу конференције YUCOMAT као излагач на постерским и усменим секцијам. Од страних конференција излагао је на JuniorEuromat2010 конференцији у Лозани, и на Pittcon2016 конференцији као делегат Америчког хемијског друштва за Србију. Више година је учествовао у организацији конференције као члан Техничког комитета конференције YUCOMAT, а 2016. године био је члан Научног и техничког . Септембра 2019. године конкурише за пројекат “Reinforcement learning based control: application and development for microfluidic encapsulation processes”.

Аутор је и коаутор више научних радова од којих 16 радова са SCI листе. Преме Web of Science и Scopus индексној бази до дана 9. новембра 2019. цитираност ових радова је 468 пута од којих су хетероцитати 406 и h-index 13. Области научног интересовања др Зорана Стојановића су физичке и хемијске методе синтезе нанокристала, наноструктура, полимерних и композитних честица; и примена алгоритама машинског учења у науци о материјалима.

Прилог 2

Библиографија

- од покретања поступка за избор у звање научни сарадник децембар 2014. године до новембра 2019.:

M21a – Рад у међународноm часопису изузетних вредности

1. M. Tadic, L. Kopanja, M. Panjan, S. Kralj, J. Nikodinovic-Runic, **Z. Stojanovic**, **"Synthesis of core-shell hematite (alpha-Fe_2O_3) nanoplates: quantitative analysis of the particle structure and shape, high coercivity and low cytotoxicity"**, *Applied Surface Science* 403 **(2017)** 628-634, https://doi.org/10.1016/j.apsusc.2017.01.115;

M21 – Радови у врхунским међународним часописима

1. **Z. S. Stojanović**, N. Ignjatović, V. Wu, V. Žunič, Lj. Veselinović, S. Škapin, M. Miljković, V. Uskoković, D. Uskoković, **"Hydrothermally processed 1D hydroxyapatite: Mechanism of formation and biocompatibility studies"**, *Materials Science and Engineering: C* 68 **(2016)** 746–757, http://dx.doi.org/10.1016/j.msec.2016.06.047;
2. Nenad L. Ignjatović, Lidija Mančić, Marina Vuković, **Zoran Stojanović**, Marko G. Nikolić, Srečo Škapin, Sonja Jovanović, Ljiljana Veselinović, Vuk Uskoković, Snežana Lazić, Smilja Marković, Miloš M. Lazarević, Dragan P. Uskoković, **"Rare-earth (Gd^{3+},Yb^{3+}/Tm^{3+}, Eu^{3+}) co-doped hydroxyapatite as magnetic, up-conversion and down-conversion materials for multimodal imaging"**, *Scientific Reports* 9 **(2019)** 16305, https://doi.org/10.1038/s41598-019-52885-0;
3. A. B. Đukić, K. R. Kumrić, N. S. Vukelić, **Z. S. Stojanović**, M. D. Stojmenović, S. S. Milošević, L. L. Matović, **"Influence of ageing of milled clay and its composite with TiO2 on the heavy metal adsorption characteristics"**, *Ceramics International* 41 **(2015)** 5129–5137, http://dx.doi.org/10.1016/j.ceramint.2014.12.085;

M22 – Рад у истакнутом међународном часопису

1. Ajdačić, V., Nikolić, A., Simić, S., Manojlović, D., **Stojanović, Z.**, Nikodinovic-Runic, J., Opsenica, I. M., **"Decarbonylation of Aromatic Aldehydes and Dehalogenation of Aryl Halides Using Maghemite-Supported Palladium Catalyst"**, *Synthesis (Germany)*, 50(1) **(2018)** 119 – 126, http://dx.doi.org/10.1055/s-0036-1590892;

M23 – Рад у истакнутом међународном часопису

1. Z. Ajduković, S. Mladenović-Antić, N. Ignjatović, **Z. Stojanovic**, B. Kocić, S. Najman, N. Petrović, D. Uskoković, **"In vitro evaluation of nanoscale hydroxyapatite-based bone reconstructive materials with antimicrobial properties"**, *Journal of Nanoscience and Nanotechnology* 16(2) **(2016)**, Pages 1420-1428, http://dx.doi.org/10.1166/jnn.2015.10699;

M34 – Саопштења на међународним скуповима штампана у изводу

1. **Z. Stojanovic**, N. Ignjatovic, M. Miljkovic, V. Uskokovic, V. Zunjic, **"On Hydrothermal Processing of 1D Hydroxyapatite for Biomedical Application"**, Pittsburgh Conference (PITTCON

2016), Atlanta, Georgia, USA, 6-10 March **2016**, World Congress Center Atlanta, Technical Program; Agenda of Sessions; Abstract pdf; abstract number 1410-3, page 988;

2. **Z. Stojanović**, **“Pittcon 2016 experience in Atlanta – firsthand conference impressions from ACS delegate”**, Program ; and the Book of Abstracts / Fifteenth Young Researchers' Conference Materials Sciences and Engineering, December 7-9, **2016**, Belgrade, Serbia ; [organized by] Materials Research Society of Serbia & Institute of Technical Sciences of SASA ; [editor Smilja Marković]. - Belgrade : Institute of Technical Sciences of SASA, 2016, page 71. ISBN 978-86-80321-32-5;

3. **Z. Stojanović**, N. Ignjatović, V. Wu, V. Žunič, Lj. Veselinović, S. Škapin, M. Miljković, V. Uskoković, D. Uskoković, **“One pot and two step synthesis of 1D and 2D calcium phosphates and their biomedical characteristics”**, Programme and The Book of Abstracts/Eighteenth Annual Conference YUCOMAT 2016, Herceg Novi, September 5-10, **2016**, organized by Materials Research Society of Serbia, Belgrade under the auspices of Federation of European Material Societies and Materials Research Society; [editors Dragan P. Uskoković & Velimir Radmilović], Belgrade: Materials Research Society of Serbia, 2016, page 28. ISBN 978-86-919111-1-9;

4. N. Ignjatović, L. Mančić, **Z. Stojanović**, M. Nikolić, S. Škapin, Lj. Veselinović, D. Uskoković, **“Rare earth dual-doped multifunctional hydroxyapatite particles for potential application in preventive medicine”**, Programme and The Book of Abstracts / Twentieth Annual Conference YUCOMAT 2018, Herceg Novi, September 3-7, **2018**, organized by Materials Research Society of Serbia, Belgrade under the auspices of Federation of European Material Societies and Materials Research Society; [editors Dragan P. Uskoković & Velimir Radmilović], Belgrade: Materials Research Society of Serbia, 2018, page 130. ISBN 978-86-919111-3-3;

5. I. Dinić, M. Vuković, N. Ignjatović, **Z. Stojanović**, S. Škapin, Lj. Veselinović, L. Mančić, **“Lanthanide doped hydroxyapatite for multimodal imaging”**, Advanced Ceramics and Application: new frontiers in multifunctional material science and processing: program and the book of abstracts: VII Serbian Ceramic Society Conference, Sep 17-19 September **2018**, Belgrade, Organized by Serbian Ceramic Society; Program and the Book of Abstracts; [Editors: Prof.dr Vojislav Mitić, Dr Lidija Mančić, Dr Nina Obradović], Belgrade, 17-19. September 2018, page 71, ISBN 978-86-915627-6-2;

6. N. Ignjatović, L. Mančić, M. Vuković, **Z. Stojanović**, M. Nikolić, S. Škapin, S. Jovanović, Lj. Veselinović, S. Lazić, S. Marković, D. Uskoković, **“Hydroxyapatite nano particles doped with Gd3+, Yb3+/Tm3+ and Eu3+ as luminomagnetic multimodal contrast agents”**, Programme and The Book of Abstracts / Eighteenth Annual Conference YUCOMAT 2019, Herceg Novi, September 2-6, **2019**, organized by Materials Research Society of Serbia, Belgrade under the auspices of Federation of European Material Societies and Materials Research Society; [editors Dragan P. Uskoković & Velimir Radmilović], Belgrade: Materials Research Society of Serbia, 2019, page 76;

M92 – Регистрован патент на националном нивоу

1. Патент по пријави: П-72/11, 09.02.2011 “Поступак добијања биокерамичких материјала високе густине на бази калцијум фосфата паралелном оптимизацијом метода синтезе и синтеровања”, Драган Ускоковић, Миодраг Лукић, Смиља Марковић, Љиљана Веселиновић, **Зоран Стојановић**. Уписан у Регистар патената Завода за интелектуалну својину под бројем 54574 (**2016**);

- до покретања поступка за избор у звање научни сарадник децембар 2014. године:

M21 – Радови у врхунским међународним часописима

1. **Zoran Stojanović**, Mojca Otoničar, Jongwook Lee, Magdalena M Stevanović, Mintai P. Hwang, Kwan Hyi Lee, Jonghoon Choi, Dragan Uskoković, **„The solvothermal synthesis of**

magnetic iron oxide nanocrystals and the preparation of hybrid poly(L-lactide)-polyethyleneimine magnetic particles", *Colloids and Surfaces B: Biointerfaces* 109 (**2013**) 236 – 243 (http://dx.doi.org/10.1016/j.colsurfb.2013.03.053);

2. Jonghoon Choi, Sungwook Park, **Zoran Stojanović**, Hyung – Seop Han, Jongwook Lee, Hyun Kwang Seok, Dragan Usković, Kwan Hyi Lee, „**Facile Solvothermal Preparation of Monodisperse Gold Nanoparticles and Their Engineered Assembly of Ferritin – Gold Nanoclusters",** *Langmuir* 29 **(2013)** 15698 – 15703 (http://dx.doi.org/10.1021/la403888f);

3. Ignjatović, N., Ajduković, Z., Savić, V., Najman, S., Mihailović, D., Vasiljević, P., **Stojanović, Z.**, Uskoković, V., Uskoković, D., **„Nanoparticles of cobalt-substituted hydroxyapatite in regeneration of mandibular osteoporotic bones"**, *Journal of Materials Science: Materials in Medicine* 24(2) (**2013**) 343-354 (DOI: 10.1007/s10856-012-4793-1);

4. K. R. Kumrić, K.R., A. B. Đukić, T. M. Trtić-Petrović, N. S. Vukelić, **Z. Stojanović**, J. D. Grbović Novaković, L. L. Matović, „**Simultaneous removal of divalent heavy metals from aqueous solutions using raw and mechanochemically treated interstratified montmorillonite/kaolinite clay**", *Industrial and Engineering Chemistry Research* 52(23) (**2013**) 7930–7939 (http://dx.doi.org/10.1021/ie400257k);

5. Stanković, A., **Stojanović, Z.**, Veselinović, L., Škapin, S. D., Bračko, I., Marković, S. and Uskoković, D., **„ZnO micro and nanocrystals with enhanced visible light absorption"**, *Materials Science and Engineering: B* 177(13) **(2012)** 1038-1045 (http://dx.doi.org/10.1016/j.mseb.2012.05.013);

6. Lukić, M.J., Veselinović, Lj., **Stojanović, Z.**, Maček-Kržmanc, M., Bračko, I., Škapin, S.D., Marković, S. and Uskoković, D., **„Peculiarities in sintering behavior of Ca-deficient hydroxyapatite nanopowders"**, *Materials Letters* 68 **(2012)** 331-335 (doi:10.1016/j.matlet.2011.10.085);

7. Lukić, M., **Stojanović, Z.**, Škapin, S.D., Maček-Kržmanc, M., Mitrić, M., Marković, S., Uskoković, D., **„Dense fine-grained biphasic calcium phosphate (BCP) bioceramics designed by two-step sintering"**, *Journal of the European Ceramic Society* 31(1-2) (**2011**) 19-27 (doi:10.1016/j.jeurceramsoc.2010.09.00);

8. Tadić, M., Čitaković, N., Panjan, M., **Stojanović, Z.**, Marković, D. and Spasojević, V., **„Synthesis, morphology, microstructure and magnetic properties of hematite submicron particles"**, *Journal of Alloys and Compounds* 509(28) (**2011**) 7639–7644 (doi:10.1016/j.jallcom.2011.04.117);

9. Veselinović, Lj., Karanović, Lj., **Stojanović, Z.**, Bračko, I., Marković, S., Ignjatović, N. & Uskoković, D., **„Crystal Structure of Cobalt-Substituted Calcium Hydroxyapatite Nano-Powders Prepared by Hydrothermal Processing"**, *Journal of Applied Crystallography* 43 (**2010**) 320-327 (doi: 10.1107/S0021889809051395);

M23 – Рад у истакнутом међународном часопису

1. **Zoran Stojanović**, Ljiljana Veselinović, Smilja Marković, Nenad Ignjatović and Dragan Uskoković, **„Hydrothermal Synthesis of Nanosize Pure and Cobalt-exchanged Hydroxyapatite"** *Materials and manufacturing processes* 24(10-11) (**2009**) 1096-1103, (doi: 10.1080/10426910903032113);

2. J. Grbović Novaković, S. Kurko, Ž. Rašković-Lovre, S. Milošević, I. Milanović, **Z. Stojanović**, R. Vujasin, L. Matović, **„Changes in Storage Properties of Hydrides Induced by Ion Irradiation"**, *Materials Science-MEDZIAGOTYRA* 19(2) (**2013**) 134 – 139 (http://dx.doi.org/10.5755/j01.ms.19.2.1579);

M52 – Часопис од националног значаја

1. **Z. Stojanović**, S. Marković, D. Uskoković, **„Merenje raspodele veličina čestica metodom difrakcije laserske svetlosti“**, Tehnika – Novi materijali 19 (5) (**2010**) (http://scindeks.ceon.rs/article.aspx?artid=0354-23001005001S);
2. Smilja Marković, Ana Stanković, Ljiljana Veselinović, Zoran Stojanović, Dragan Uskoković, **„Kreiranje morfologije i veličine čestica ZnO prahova“**, Tehnika – Novi materijali 21 (5) (**2010**) (http://scindeks.ceon.rs/article.aspx?query=ISSID%26and%2610262&page=0&sort=8&stype=0&backurl=%2Fissue.aspx%3Fissue%3D10262);

M34 – Саопштења на међународним скуповима штампана у изводу

1. **Z. Stojanović**, D. Jugović, D. Uskoković, **„Hydrothermal Synthesis of Cathode Materials for Lithium-ion Batteries“**, *The Ninth Yugoslav Materials Research Society Conference YUCOMAT 2007*, September 10-14, Herceg Novi, The Book of Abstracts, page 79, ISBN 978-86-80321-11-0 (http://www.mrs-serbia.org.rs/images/2007-1.pdf);
2. A. Stanković, Z. Stojanović, D. Uskoković, **„Effects of Organic Surfactants on Mechanochemicaly Synthesized ZnO Particles“**, *The Ninth Yugoslav Materials Research Society Conference YUCOMAT 2007*, September 10-14, Herceg Novi, The Book of Abstracts, page 83, ISBN 978-86-80321-11-0 (http://www.mrs-serbia.org.rs/images/2007-1.pdf);
3. **Z. Stojanović**, Lj. Veselinović, S. Marković, N. Ignjatović, D. Uskoković, **„Hydrothermal Synthesis of Cobalt-exchanged Hydroxyapatite Nanoparticles“**, *The Tenth Annual Yugoslav Materials Research Society Conference YUCOMAT 2008*, September 8-12, Herceg Novi, The Book of Abstracts, page 159, ISBN 978-86-80321-15-8 (http://www.mrs-serbia.org.rs/images/2008-1.pdf);
4. Lj. Veselinović, **Z. Stojanović**, S. Marković, N. Ignjatović, D. Uskoković, **„XRD Analysys of Cobalt-Substituted Hydroxyapatite Prepared by Hydrothermal Method“**, *The Tenth Annual Yugoslav Materials Research Society Conference YUCOMAT 2008*, September 8-12, Herceg Novi, The Book of Abstracts, page 160, ISBN 978-86-80321-15-8 (http://www.mrs-serbia.org.rs/images/2008-1.pdf);
5. **Z. Stojanović**, M. Jović, D. Uskoković, **„Impact of Solvent Mixture Composition and Additive Presence on $LiFePO_4$ Formation in Water-iso-propanol Solutions at Elevated Temperatures and Pressures“**, *The Eleventh Yugoslav Materials Research Society Conference YUCOMAT 2009*, Avgust 31- September 4, Herceg Novi, The Book of Abstracts, page 91, ISBN 978-86-80321-18-9 (http://www.mrs-serbia.org.rs/images/2009-1.pdf);
6. M. Jović, **Z. Stojanović**, Lj. Veselinović, D. Uskoković, **„Hydrothemal Synthesis of $LiFePO_4$ Powders as Cathode Material for Li-ion Batteries“**, *The Eleventh Yugoslav Materials Research Society Conference YUCOMAT 2009*, Avgust 31- September 4, Herceg Novi, The Book of Abstracts, page 91, ISBN 978-86-80321-18-9 (http://www.mrs-serbia.org.rs/images/2009-1.pdf);
7. Z. Ajduković, N. Ignjatović, **Z. Stojanović**, B. Kaličanin, V. Savić, S. M. Petrović, B. M. Petrović, J. Milićević, D. Uskoković, **„Treatment of Osteoporosis Alveolar Bone with Cobalt Substituted Hydroxyapatite Nanoparticles“**, *The Eleventh Yugoslav Materials Research Society Conference YUCOMAT 2009*, 31. Avgust - 4. September, Herceg Novi, The Book of Abstracts, page 188, ISBN 978-86-80321-18-9 (http://www.mrs-serbia.org.rs/images/2009-1.pdf);
8. **Z. Stojanović**, Lj. Veselinović, M. Jović, A. Stanković, M. Jevtić, S. Marković, D. Uskoković, **„Laser Diffraction Particle Size Analysis of Non Spherical Particles Synthesized by Hydrothermal Method“**, JuniorEUROMAT 2010 24. – 30. July Lausanne Suisse (http://www.dgm.de/past/2010/junior-euromat/php/JE2010_Programme.pdf);
9. M. Lukic, **Z. Stojanovic**, L. Veselinovic, S. Markovic, D. Uskokovic, **„Designing of Dense Nanostructured Calcium Phosphate Based Bioceramics”**, JuniorEUROMAT 2010 24. – 30. July Lausanne Suisse (http://www.dgm.de/past/2010/junior-euromat/php/JE2010_Programme.pdf);

10. **Z. Stojanović**, Lj. Veselinović, S. Marković, D. Uskoković, **„Synthesis Procedure for the Preparation of $CaCu_3Ti_4O_{12}$“**, *YUCOMAT 2010* 6. – 10. September, Herceg Novi, The Book of Abstracts, page 91, ISBN 978-86-80321-25-7 (http://www.mrs-serbia.org.rs/images/2010-3.pdf);
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1. Synthesis, morphology, microstructure and magnetic properties of hematite submicron particles
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2. Hydrothermal Synthesis of Nanosized Pure and Cobalt-Exchanged Hydroxyapatite
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7. Simultaneous Removal of Divalent Heavy Metals from Aqueous Solutions Using Raw and Mechanochemically Treated Interstratified Montmorillonite/Kaolinite Clay
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By: Tadic, Mann; Kopanja, Lazar; Panjan, Matjaz; et al.

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UNIVERZITET U BEOGRADU

FAKULTET ZA FIZIČKU HEMIJU

Maja D. Kuzmanović

Morfološke i elektrohemijske karakteristike prahova $LiFePO_4$ sintetisanih u prisustvu različitih karboksilnih kiselina

doktorska disertacija

Beograd, 2017

Zahvalnica

Istraživanja izvršena u okviru ove doktorske disertacije najvećim delom su ostvarena na Institutu tehničkih nauka SANU u okviru naučno-istraživačkog projekta br. III 45004 pod nazivom "Molekularno dizajniranje nanočestica kontrolisanih morfoloških i fizičko-hemijskih karakteristika i funkcionalnih materijala na njihovoj osnovi" čiji je rukovodilac naučni savetnik prof. dr Dragan Uskoković kome bih želela da se zahvalim.

Veliku zahvalnost dugujem dr Dragani Jugović, višem naučnom saradniku Instituta tehničkih nauka SANU i dr Ivani Stojković Simatović, docentu Fakulteta za fizičku hemiju mentorima ove doktorske disertacije na velikoj pomoći u toku izrade ove doktorske disertacije, saradnji, savetima i prijateljskoj podršci.

Dr Miodragu Mitriću, naučnom savetniku Instituta za nuklearne nauke Vinča, se zahvaljujem na podršci u eksperimentalnom radu kao i tumačenju rezultata dobijenih rendgenostrukturnom analizom. Deo ove doktorske disertacije je urađen na Fakultetu za fizičku hemiju, pa se ovom prilikom posebno zahvaljujem redovnom profesoru Fakulteta za Fizičku hemiju dr Nikoli Cvjetićaninu uz koga sam napravila prve korake u eksperimentalnom radu u oblasti materijala za litijum jonske baterije. Dr Milici Vujković, naučnom saradniku Fakulteta za fizičku hemiju se zahvaljujem na podršci kao i na pomoći u izradi eksperimenata vezanih za cikličnu voltametriju.

Eksperimentalni deo teze je urađen u saradnji sa istraživačima iz drugih laboratorija. Dr Valentinu Ivanovskom i dr Božidaru Cekiću (Laboratorija za nuklearnu i plazma fiziku Instituta za nuklearne nauke Vinča) se zahvaljujem na snimanju Mesbuerove spektroskopije, dr Sreči Škapinu i dr Mariji Vukomanović (Institut Jožef Štefan u Ljubljani) na izvođenju visokorezolucione skenirajuće elektronske mikroskopije, a dr Bojanu Jokiću (Tehnološko-metalurški fakultet u Beogradu) na izvođenju skenirajuće elektronske mikroskopije.

Dr Zoranu Stojanoviću i dr Smilji Marković se zahvaljujem na pomoći u izvođenju eksperimenata vezanih za lasersko određivanje veličine čestica, dr Miodragu Lukiću na pomoći prilikom snimanja TG/DTA/MS i analizi rezultata, a dr Ljiljani Veselinović na pomoći u snimanju rendgenske difrakcije na prahu. Zahvaljujem se svim kolegama sa Instituta tehničkih nauka SANU Ani, Magdaleni, Milošu, Nenadu na saradnji i prijateljskoj podršci.

Naravno, želim da se zahvalim i svojoj porodici na bezgraničnoj podršci i razumevanju.

UNIVERZITET U BEOGRADU

FAKULTET ZA FIZIČKU HEMIJU

Miloš D. Milović

SINTEZA, STRUKTURNA I ELEKTROHEMIJSKA SVOJSTVA $LiFePO_4$ i Li_2FeSiO_4 KAO KATODNIH MATERIJALA ZA LITIJUM-JONSKE BATERIJE

doktorska disertacija

Beograd, 2016

Zahvalnica

Ova doktorska disertacija osmišljena je i ostvarena pod vođstvom mentora dr Dragane Jugović, višeg naučnog saradnika Instituta tehničkih nauka SANU i dr Ivane Stojković Simatović, docenta Fakulteta za fizičku hemiju Univerziteta u Beogradu.

Disertacija je urađena u okviru naučno-istraživačkog projekta br. III 45004 pod nazivom "Molekularno dizajniranje nanočestica kontrolisanih morfoloških i fizičko-hemijskih karakteristika i funkcionalnih materijala na njihovoj osnovi" čiji je rukovodilac naučni savetnik prof. dr Dragan Uskoković, a čiji je nosilac Institut tehničkih nauka SANU. Zahvalio bih se svim kolegama sa zajedničkog projekta kao i iz Instituta tehničkih nauka SANU, a posebno istraživaču saradniku mr Ljiljani Veselinović, višem naučnom saradniku dr Smilji Marković, istraživaču saradniku mr Maji Kuzmanović, bibliotekaru instituta Milici Ševkušić, naučnim saradnicima dr Zoranu Stojanoviću i dr Miodragu Lukiću, kao i istraživaču saradniku mr Nenadu Filipoviću, koji su u određenim segmentima i direktno učestvovali u ovom istraživanju.

Izrada teze odvijala se delom u Laboratoriji za teorijsku fiziku i fiziku kondenzovane materije br. 020 Instituta za nuklearne nauke Vinča, gde mi je veliku pomoć i podršku pružio naučni savetnik dr Miodrag Mitrić. Osim njega, želim da pomenem i da se zahvalim svim zaposlenima u laboratoriji 020 u Vinči, a posebno Svetlani Radojčić, zatim istraživaču saradniku mr Tanji Barudžiji i naučnom saradniku dr Ani Mraković koji su mi i neposredno pomagali u eksperimentima.

Mesbauerova spektroskopija urađena je u saradnji sa višim naučnim saradnikom dr Anom Umićević, kao i naučnim saradnikom dr Valentinom Ivanovskim iz Instituta za nuklearne nauke Vinča. Merenja elektronske mikroskopije urađena su na Tehnološko-metalurškom fakultetu u Beogradu u saradnji sa docentom dr Bojanom Jokićem, kao i na Institutu Jožef Štefan iz Ljubljane uz svesrdnu pomoć dr Marije Vukomanović i prof. dr Danila Suvorova. Atomska emisiona spektroskopija u induktivno spregnutoj plazmi urađena je na Institutu za hemiju, tehnologiju i *metalurgiju u saradnji sa višim naučnim saradnikom dr Biljanom Dojčinović. Galvanostatsko testiranje na sobnoj temperaturi urađeno je delom u našoj laboratoriji, a delom na Fakultetu za fizičku hemiju gde imam da zahvalim docentu dr Ivani Stojković Simatović, kao i naučnom saradniku dr Milici Vujković na pomoći pri ovom merenju. Temperirano galvanostatsko testiranje urađeno je na Hemijskom institutu iz Ljubljane za šta zahvalnost dugujem dr Robertu Dominku. Merenje specifične električne provodljivosti urađeno je na Fakultetu za fizičku hemiju za šta zahvalnost dugujem dr Nikoli Cvjetićaninu, redovnom profesoru ovog fakulteta.*

Vrlo korisna za mene je bila i saradnja sa naučnim savetnikom dr Filipom Vukajlovićem, naučnim savetnikom dr Zoranom Popovićem, naučnim savetnikom dr Željkom Šljivančaninom, kao i naučnim saradnikom dr Aleksandrom Miloševićem iz Instituta za nuklearne nauke Vinča, koji su teoretski potkrepili dobijene eksperimentalne rezultate; kao i pomoć dr Maksima Avdejeva iz Bragovog instituta u Australiji na kreiranju "bond-valence" mapa.

Tokom doktorskih studija imao sam priliku da puno saznam i naučim od prof. dr Nikole Cvjetićanina koji mi je i u eksperimentima puno pomagao, zatim od akademika prof. dr Slavka Mentusa, kao i prof. dr Miloša Mojovića.

Svima se od srca zahvaljujem.

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Број:660-01-00011/34
20.05.2015. године
Б е о г р а д

На основу члана 22. става 2. члана 70. став 5. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) и захтева који је поднео

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стиче научно звање

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Комисија за стицање научних звања је по претходно прибављеном позитивном мишљењу Матичног научног одбора за хемију на седници одржаној 20.05.2015. године разматрала захтев и утврдила да именовани испуњава услове из члана 70. став 5. Закона о научноистраживачкој делатности ("Службени гласник Републике Србије", број 110/05 и 50/06 – исправка и 18/10), члана 2. става 1. и 2. тачке 1 – 4.(прилози) и члана 38. Правилника о поступку и начину вредновања и квантитативном исказивању научноистраживачких резултата истраживача ("Службени гласник Републике Србије", број 38/08) за стицање научног звања ***Научни сарадник,*** па је одлучила као у изреци ове одлуке.

Доношењем ове одлуке именовани стиче сва права која му на основу ње по закону припадају.

Одлуку доставити подносиоцу захтева, именованом и архиви Министарства просвете, науке и технолошког развоја у Београду.

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