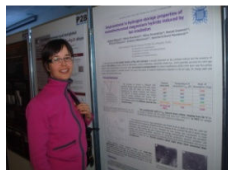


Curriculum Vitae



Personal information

First name(s) / Surname(s) **MATOVIC, Ljiljana**
Address(es) 12-14, Mike Petrovića Alasa 11 000 Belgrade, Serbia
Telephone(s) +381 113408552 Mobile: +381 603241789
Fax(es) +381 113408224
E-mail ljiljam@vinca.rs
Nationality Serbian
Date of birth 21.02.1976.
Gender Female

Work experience

Dates	From July 2011 to December 2015
Occupation or position held	Research Associate
Main activities and responsibilities	Member of MC of COST Action MP1103 Nanostructured materials for solid-state hydrogen storage
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	April 2012- April 2014
Occupation or position held	Research Associate
Main activities and responsibilities	Leader of bilateral project Serbia Slovenia: Microstructural investigation of materials for hydrogen storage and correlation with desorption properties
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	From January 2010
Occupation or position held	Research Associate
Main activities and responsibilities	National project "Synthesis, processing and characterization of nanostructured materials for application in the fields of energy, mechanical engineering, environment and biomedicine" Researcher on work package : Experimental and theoretical investigation of materials for hydrogen storage
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	From 2010 to 2012
Occupation or position held	Research Associate
Main activities and responsibilities	Researcher on Bilateral project "Effects of low energy ion irradiation on the catalytic activity magnesium and magnesium based intermetallic compounds"
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia

Type of business or sector	Scientific Institution
Dates	From 2010 to 2012
Occupation or position held	Research Associate
Main activities and responsibilities	Researcher on Bilateral project between Serbia and Russia: Ion beam induced nanostructuring of silicon based and materials for hydrogen storage
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	2009
Occupation or position held	Research Assistant
Main activities and responsibilities	Researcher on international project: Inelastic neutron scattering study of the microscopic proton dynamics in ion-bombarded MgH₂
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	From 2008 to December 2010
Occupation or position held	Research Assistant
Main activities and responsibilities	Researcher on work package Synthesis and modification of magnesium based materials for hydrogen storage, within national project " Synthesis and characterisation of nanostructured metallic and intermetallic compounds and their composites"
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Type of business or sector	Scientific Institution
Dates	From 2004 to 2005
Occupation or position held	Research Assistant
Main activities and responsibilities	ENEA Fellowship – Electron Microscopy Characterization of nanostructured materials, ENEA, Unità Materiali e Nuove Tecnologie, CR Casaccia, Roma.
Name and address of employer	Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Dates	From 2002 to 2008
Occupation or position held	Research Assistant
Main activities and responsibilities	Production, investigation of new and the improvement of already existing ^{99m} Tc and ¹³¹ I labeled radiopharmaceuticals for diagnostic and therapeutic application in nuclear medicine
Name and address of employer	Laboratory for radioisotopes, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Dates	2005-2007
Occupation or position held	Research Assistant
Main activities and responsibilities	Researcher on Bilateral project between Serbia and Greece: The structure and affinity of ^{99m}Tc and ^{186/188}Re complexes with different compounds for obtaining radiopharmaceuticals for diagnostic and therapeutic purpose"
Name and address of employer	Laboratory for radioisotopes, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia
Education and training	
Dates	2010
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Materials for hydrogen storage: theme " Changes of thermal properties of MgH₂ due to destabilization of the structure by high energy ion irradiation " (in Serbian)

Name and type of organisation providing education and training

Faculty of Physical Chemistry, University of Belgrade, 12-16, Studentski trg, 11000 Belgrade, Serbia

Dates

From 2002 to 2007

Title of qualification awarded

Magisterium in physical chemistry

Principal subjects/occupational skills covered

Materials for hydrogen storage:
theme " **Catalytic effect of 3d-metals on kinetics of dehydrogenation of MgH₂**"

Name and type of organisation providing education and training

Faculty of Physical Chemistry, University of Belgrade, 12-16, Studentski trg, 11000 Belgrade, Serbia

Dates

From 1994 to 2002

Title of qualification awarded

Graduate degree in physical chemistry

Principal subjects/occupational skills covered

Theme: "Determination of constants of dissociation of lysine and possibilities of complexation with Sn(II)-ion"

Name and type of organisation providing education and training

Faculty of Physical Chemistry, University of Belgrade, 12-16, Studentski trg, 11000 Belgrade, Serbia

Personal skills and competences

Mother tongue(s)

Serbian

Other language(s)

Self-assessment

European level (*)

English

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
B2	Upper Intermediate	B2	Upper Intermediate	A2	Pre Intermediate	A2	Pre Intermediate	A2	Pre Intermediate

(*) Common European Framework of Reference for Languages

Organisational skills and competences

- President of **Hydrogen storage Student Chapter**
- Member of program and organizing committee of the Joint meeting of 11th Conference of Young Researchers in Field of Material Science and the 1st European Early Stage Researchers Conference of Hydrogen Storage, 03-05. 12. 2012, Belgrade, Serbia
- Member of Program and Organizing board of 4th Serbian Congress on Microscopy, Belgrade 11-12. October 2010

Technical skills and competences

SEM, TPD, DSC, XRD, TGA and DTA, CEC, sorption properties

Computer skills and competences

- Advanced knowledge of Microsoft Office (and Open Office) applications and Internet;
- Basic knowledge Corel Draw, Adobe Photoshop;
- Experienced in specialized software: Origin, FindIt-XRD data base

Professional memberships

- Member of Serbian society for microscopy
- Member of European microscopy society
- Leader of Student chapter of International Association for Hydrogen Energy
- Materials research society of Serbia
- Society of physical chemists of Serbia

Awards

- 2007 European Microscopy Society grant for best paper on European conference on microscopy

Referee

- Hemijska Industrija

Teaching

- Mentor of M.Sc thesis of Anđelka Đukić.
theme: Cation exchange capacity of natural clays for wastewater treatment - the influence of mechanical milling finished in 2011:

Social skills and competences

- Highly developed team spirit
- Flexibility, responsibility
- Very organized person
- Problem-solving attitude
- Readiness to learn new things, open and communicative

Selected Papers in last 5 years

1. **Lj. Matović**, S. Kurko, Ž. Rašković-Lovre, R. Vujasin, I. Milanović, S. Milošević, J. Grbović Novaković, **Assessment of changes in desorption mechanism of MgH₂ after ion bombardment induced destabilization**, Int.J.Hyd. Energy 37(8) (2012) 6727-6732
2. J. Gulicovski, Ž. Rašković-Lovre, S. Kurko, R. Vujasin, Z. Jovanović, **Lj. Matović**, J. Grbović Novaković, **Influence of vacant CeO₂ nanostructured ceramics on MgH₂ hydrogen desorption properties**, Ceram. Int. 38 (2) (2012) 1181-1186
3. S. Kurko, Ž. Rašković, N. Novaković, B. Paskaš Mamula, Z. Jovanović, Z. Baščarević, J. Grbović Novaković, **Lj. Matović**, **Hydrogen storage properties of MgH₂ mechanically milled with α and β SiC**, Int.J.Hyd. Energy 36 (2011) 549-554
4. S. Kurko, **Lj. Matović**, N. Novaković, B. Matović, Z. Jovanović, B. Paskaš Mamula, J. Grbović Novaković, **Changes of Hydrogen Storage Properties of MgH₂ Induced by Boron Ion Irradiation**, Int.J.Hyd. Energy 36 (2011) 1184-1189
5. S. Kurko, B. Paskaš-Mamula, **Lj. Matovic**, J. Grbovic Novakovic, N. Novakovic, **The Influence of Boron Doping Concentration on MgH₂ Electronic Structure**, Acta Physica Polonica 120(2)(2011) 238-241
6. N. Novaković, **Lj. Matović**, J. Grbovic Novaković, I. Radisavljevic, M. Manasijevic N. Ivanović, **AB INITIO calculation of MgH₂, MgH₂:Ti AND MgH₂:Co compounds**, Int.J.Hyd. Energy 35 (2010) 598-608
7. **Lj. Matović**, N. Novaković, S. Kurko, M. Šiljegović, B. Matović, N. Romčević, Z. Kacarević-Popović, N. Ivanović, J. Grbovic Novaković, **Structural destabilisation of MgH₂ obtained by heavy ion irradiation**, Int.J.Hyd. Energy 34 (2009) 7275 -7282
8. N. Novaković, **Lj. Matović**, J. Grbović Novaković, M. Manasijević, N. Ivanović. **Ab Initio Study of MgH₂ Formation**, Mat. Sci. & Eng. B, 165(3) (2009) 235-238
9. J. Grbović Novaković, **Lj. Matović**, S. Milovanović, M. Drvendžija, N. Novaković, D. Rajnović, M. Šiljegović, Z. Kačarević Popović, N. Ivanović, **Changes of hydrogen storage properties of MgH₂ induced by heavy ion irradiation**, Int.J.Hyd. Energy **33(7)** (2008) 1876-1879
10. S. Milovanović, **Lj. Matović**, M. Drvendžija, J. Grbović Novaković, **Hydrogen storage properties of MgH₂ - diatomite composites obtained by high energy ball milling**, J. Micros. 232(3) (2008) 522-525.

Congresses and conferences attended -last 3 years

1. S. Milošević, Ž. Rašković-Lovre, I. Milanovic, S. Kurko, R. Vujasin, Z. Baščarevic, **Lj. Matovic**, J. Grbovic Novakovic, **Microstructure and hydrogen storage properties of MgH₂-TiB₂ composites**. Proceedings of 10th Multinational Cogress of Microscopy, Urbino 4-9.09.2011, Italy, pg.495
2. Ž. Rašković-Lovre, S. Milošević, I. Milanovic, S. Kurko, R. Vujasin, Z. Baščarevic, J. Grbovic Novakovic, **Lj. Matovic**, **Microstructure and hydrogen storage properties of MgH₂-TiB₂-SiC composites** Proceedings of 10th Multinational Cogress of Microscopy, Urbino 4-9.09.2011, Italy, pg.507
3. J. Grbovic Novakovic, A. Djukic, B. Paskaš Mamula, N. Novakovic, **Lj. Matovic**, Lj. Vulicevic, N. Ivanovic, **Microstructure and morphology of natural clay minerals**, Proceedings of 10th Multinational Cogress of Microscopy, Urbino 4-9.09.2011, Italy, pg.639
4. I. Milanović, R. Vujasin, S. Milošević, Ž. Rašković-Lovre, S. Kurko, **Lj. Matović**, J. Grbović Novaković, **Mechanical synthesis of magnesium based nanocomposites**, 13th annual conference YUCOMAT 2011, Herceg Novi, September 5-9, 2011, Montenegro, pg. 150
5. I. Milanović, R. Vujasin, S. Milošević, Ž. Rašković-Lovre, S. Kurko, **Lj. Matović**, J. Grbović Novaković, **Mechanochemical synthesis of MgH₂-TiB₂ composites for hydrogen storage** VII International Conference on Mechanochemistry and Mechanical Alloying INCOME 2011, Herceg Novi, August 31-September 3, 2011, pg. 57
6. I. Milanović, R. Vujasin, S. Milošević, Ž. Rašković, S. Kurko, **Lj. Matović**, J. Grbović Novaković, A. Aurora, A. Montone, **Mechanical milling of magnesium based composites for hydrogen storage**, VII International Conference on Mechanochemistry and Mechanical Alloying INCOME 2011, Herceg Novi, August 31-September 3, 2011, pg. 76
7. R. Vujasin, **Lj. Matović**, J. Grbović Novaković, N. Novaković, **Hydrogen - rutile TiO₂ (110) surface interaction**, Hands-on Tutorial Workshop 2011 on *ab initio* Molecular Simulations, Towards a First-Principles Understanding of Materials Properties and Functions 12-21.6.2011, The book of abstract pg. 45
8. Ž. Rašković, S. Kurko, B. Paskaš Mamula, **Lj. Matović**, N. Novaković, R. Vujasin, J. Grbović Novaković, **Improvement of hydrogen storage properties of MgH₂ by α and β -SiC**, The book of abstract of 1st Conference of the Serbian Ceramic Society, Belgrade, Serbia 17-18.03.2011 pg.60

9. S. Milošević, Ž. Rašković, S. Kurko, **Lj. Matović**, N. Cvjetičanin, J. Grbović Novaković, **The influence of VO₂ on hydrogen desorption properties of MgH₂**, The book of abstract of 1st Conference of the Serbian Ceramic Society, Belgrade, Serbia 17-18.03.2011 pg.49
10. Ž. Rašković, S. Kurko, R. Vujasin, J. Gulicovski, S. Milošević, **Lj. Matović**, J. Grbović Novaković, **Hydrogen storage properties of MgH₂-CeO₂ composites**, Ninth Young Researchers Conference Materials Sciences and Engineering December 20-22, 2010, Belgrade, Serbia, pg. 33
11. **Lj. Matović**, S. Kurko, Ž. Rašković, N. Novaković, Z. Jovanović, J. Grbović Novaković, **Improvement of Hydrogen Storage Properties of MgH₂ by Formation of MgH₂-SiC Nanocomposite**, 11th Eurasia Conference on Chemical Sciences, Amman, Jordan, 6-11. October 2010 pg. 132
12. **Lj. Matović**, S. Kurko, Z. Rašković, B. Paskaš Mamula, Z. Baščarević, N. Novaković, J. Grbović Novaković, **Improvement of Hydrogen Storage Properties of MgH₂ by α and β -SiC**, 12th Annual Conference YUCOMAT 2010 Hotel "Plaža", Herceg Novi, Montenegro, September 6–10, 2010, Programme and The Book of Abstracts pg. 114
13. S. Kurko, B. Paskaš Mamula, **Lj. Matović**, J. Grbović Novaković, N. Novaković, **The Influence Of Boron Doping Concentration On MgH₂ Electronic Structure**, 12th Annual Conference YUCOMAT 2010 Hotel "Plaža", Herceg Novi, Montenegro, September 6–10, 2010 Programme and The Book of Abstracts pg.120
14. S. Kurko, N. Novakovic, **Lj. Matovic**, Z. Raskovic, Z. Jovanovic, B. Matovic, J. Grbovic Novakovic, **MgH₂:B Nanocomposite for hydrogen storage: Ab Initio Calculations and Experiment**, International Symposium " Metal-Hydrogen Systems. Fundamentals and Application, Moscow, Russia, July 19-23, 2010, The Book of abstract pg. 366
15. **Lj. Matovic**, S. Kurko, Z. Raskovic, Z. Bascarevic, N. Novakovic, J. Grbovic Novakovic, **M21515 - Improvement of Hydrogen Storage Properties of MgH₂-SiC Accepted abstract** International conference of microscopy IMC 17, Rio de Jenairo, Brasil, september 19-24, 2010
16. S. Kurko, Ž. Rašković, N. Novaković, J. Grbović Novaković, **Lj. Matović**, **Microstructure Evolution of MgH₂ surface after N³⁺ ion bombardment**, Program i knjiga proširenih apstrakata, Četvrti srpski kongres za mikroskopiju 11-12. Oktobar 2010, Beograd, Srbija, strana 53
17. S. Milošević, Ž. Rašković, S. Kurko, **Lj. Matović**, J. Grbović Novaković, N. Cvjetičanin, **Hydrothermal synthesis of VO₂**, Program i knjiga proširenih apstrakata, Četvrti srpski kongres za mikroskopiju 11-12. Oktobar 2010, Beograd, Srbija, strana 59