

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **KURKO, Sandra**
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E-mail skumric@vinca.rs
Nationality Serbian
Date of birth 12.07.1982.
Gender Female

Work experience

<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>From July 2011 to December 2015</p> <p>Research Fellow</p> <p>Working on multinational project - "Nanostructured materials for solid-state hydrogen storage"- MPNS COST Action MP1103</p> <p>Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia</p> <p>Scientific Institution</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>From January 2011 to December 2014</p> <p>Research Assistant</p> <p>Working on synthesis and modification of magnesium based materials for hydrogen storage, within national project "Synthesis, processing and characterization of nanostructured materials for application in the fields of energy, mechanical engineering, environment and biomedicine"</p> <p>Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia</p> <p>Scientific Institution</p>
<p>Dates</p> <p>Occupation or position held</p> <p>Main activities and responsibilities</p> <p>Name and address of employer</p> <p>Type of business or sector</p>	<p>From July 2010 to December 2012</p> <p>Research Fellow</p> <p>At bilateral project "Effects of low energy ion irradiation on the catalytic activity magnesium and magnesium based intermetallic compounds"</p> <p>Department of Materials Science, Vinča Institute of Nuclear Sciences, University of Belgrade, 12-14 Mike Petrovića Alasa, 11001 Belgrade, Serbia</p> <p>Scientific Institution</p>

Dates From November 2008 to December 2010
Occupation or position held Research Assistant
Main activities and responsibilities Working on synthesis and modification of magnesium based materials for hydrogen storage, within national project "Nanostructured ceramic and carbon materials 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

Education and training

Dates From October 2008 till now
Title of qualification awarded Ph.D. candidate
Principal subjects/occupational skills covered Materials for hydrogen storage
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 June 2008 to October 2008
Title of qualification awarded Master in Science
Principal subjects/occupational skills covered Theme: "Hydriding kinetics of intermetallic compounds Hf₂Ni and Hf₂Co"
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 October 2001 to June 2008
Title of qualification awarded Graduate degree in physical chemistry
Principal subjects/occupational skills covered Theme: "Investigation of H₂Ni hydriding kinetics"
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 September 1997 to June 2001
Title of qualification awarded Pharmacy technician
Principal subjects/occupational skills covered Training for performing a variety of tasks associated with preparing and dispensing prescribed medications for patients.
Name and type of organisation providing education and training Medical High School Zvezdara, b.b. Veljka Dugoševića, 11000 Belgrade, Serbia

Personal skills and competences

Mother tongue(s) **Serbian**

Other language(s)

Self-assessment
European level ()*

English

French

Russian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A1	Basic user	A2	Basic user	A1	Basic user	A2	Basic user	A2	Basic user
A1	Basic user	A2	Basic user	A1	Basic user	A2	Basic user	A2	Basic user

(*) *Common European Framework of Reference for Languages*

Social skills and competences	<ul style="list-style-type: none"> • Highly developed team spirit, • Flexibility, responsibility, • Very organized person, • Problem-solving attitude, • Readiness to learn new things, open and communicative.
Organisational skills and competences	<p>Experienced in working under pressure and delivering results in short deadlines. Gained high quality practical organisational skills through following scientific activities and conferences:</p> <ul style="list-style-type: none"> • 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 organizing committee of the 1st Conference of the Serbian Ceramic Society, 17-18. 03. 2011, Belgrade, Serbia • Member of technical committee of the 4th Serbian Congress for microscopy, 11-12. 10. 2010, Belgrade, Serbia • Vice president of Serbian student chapter of International Association of hydrogen energy.
Technical skills and competences	<p>DFT calculations within AbInit code, X-ray diffraction and data analysis, SRIM Monte Carlo simulation, analysis of SEM, TPD, DSC, TGA and DTA data.</p>
Computer skills and competences	<p>Advanced knowledge of Microsoft Office (and Open Office) applications and Internet; Basic usage of Corel Draw, Adobe Photoshop; Experienced in specialized software: Origin, FindIt-XRD data base, PCW-XRD data analysis tool and AbInit software for DFT calculations under Linux OS.</p>
Other skills and competences	<p>Member of environmental movement "Pokret Gorana".</p>
Additional information	<p>Selected Papers (5/11):</p> <ol style="list-style-type: none"> 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 2012, DOI:10.1016/j.ijhydene.2012.01.084; 2. S. Milošević, I. Stojković, S. Kurko, J. Grbović Novaković, N. Cvjetičanin, The simple one-step solvothermal synthesis of nanostructured VO₂(B), Ceram. Int. doi:10.1016/j.ceramint.2011.11.001, 3. 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; 4. S. Kurko, Ž. Rašković, N. Novaković, B. Paskaš Mamula, Z. Jovanović, Z. Bašcarević, 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; 5. 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. <p>Congresses and conferences attended (listed 3/24):</p> <ol style="list-style-type: none"> 1. Ž. Rašković-Lovre, S.Milošević, I. Milanovic, S. Kurko, R. Vujasin, Z. Bašcarevic, 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; 2. Lj. Matović, S. Kurko, Z. Rašković, B. Paskaš Mamula, Z. Bašcarević, N. Novaković, J. Grbović Novaković, Improvement of hydrogen storage properties of MgH₂ by α and β SiC, 12th Annual Conference, YUCOMAT 2010, Herceg Novi, September 6-10, 2010, The Book of Abstracts, pg. 114; 3. 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 Applications" Moscow, Russia July 19-23, 2010, Chemistry Department Lomonosov Moscow State University, Book of Abstracts p. 363. <p>Professional memberships:</p>

1. Serbian society for microscopy,
2. European microscopy society,
3. Student chapter of International association for hydrogen energy,
4. Materials research society-Serbia,
5. Society of physical chemists of Serbia.

Awards:

1. 2011 Scholarship for attendance in Hands-On Tutorial Workshop 2011: "DFT and beyond - towards a first-principles understanding of materials properties and function" Berlin, July 12. July 21., 2011, awarded by the organizers,
2. 2010 Scholarship for attendance in Summer school on materials for the hydrogen society, Chernogolovka, Moskow district 14-18. July 2010 as a part of International Symposium on metal-hydrogen systems 19-23. July 2010 Moskow, awarded by the organizers,
3. 2009 Best poster award at Microscopy Conference MC2009 Graz, Austria,
4. 2009 EMS (European Microscopy Society) Scholarship for MC2009,
5. 2009 IUPAP (International Union of Pure and Applied Physics) women in physics travel grant.