CURRICULUM VITAE

PERSONAL INFORMATION

Name and surname	**Iva Šarić**
Title	Doc. dr.sc.
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CURRENT POSITION

Dates (from – to)	15.11.2017.-today
	Department of Physics and Centre for Micro and Nano Sciences and Technologies, University of Rijeka, Croatia, Radmile Matejčić, br. 2, 51000 Rijeka
Position	Assistant professor

PREVIOUS POSITION

Dates (from – to)	1.9.2016.-15.11.2017.
	Department of Physics and Centre for Micro and Nano Sciences and Technologies, University of Rijeka, Croatia, Radmile Matejčić, br. 2, 51000 Rijeka
Position	Postdoctoral researcher
Dates (from – to)	1.2.2014.-1.9.2016.
	Department of Physics, Faculty of Civil Engineering, University of Rijeka, Croatia, Radmile Matejčić, br. 3, 51000 Rijeka
Position	Postdoctoral researcher
Dates (from – to)	1.2.2008.-1.2.2014.
	Department of Physics, Faculty of Civil Engineering, University of Rijeka, Croatia, Radmile Matejčić, br. 3, 51000 Rijeka
Position	Phd student and teaching assistant

EDUCATION

Dates (from – to)	2008. – 2014.
	Faculty of Science, Physics Department, University of Zagreb, Croatia
Title	Ph. D. of Natural Science
Dissertation	EPR spectroscopy of solid trehalose: the effect of matrix disorder on the dynamics of the paramagnetic centers, Faculty of Science, Physics Department, University of Zagreb, Croatia, 27. 4. 2014. mentor: dr. Marina Ilakovac Kveder, Ruđer Bošković Institute.

Dates (from – to)	2002.-2007.
	Faculty of Arts and Sciences, University of Rijeka, Croatia
Title	M. Ed.

Dates (from – to)	1998.-2002.
	Rijeka's First Croatian High School

PROFESSIONAL DEVELOPMENT

1) **Weizman Institute of Science (Rehavot, Izrael) –** The 6th EFEPR School on Advanced Electron Paramagnetic Resonance (EPR) Spectroscopy (12. 1. 2013. – 18. 1. 2013.)
2) **CIC nanoGUNE (San Sebastian, Spain) –** guest researcher: COST Action MP1402 Short Term Scientific Missions (STSM) (1. 11. 2016. – 15. 12. 2016.)
3) **CIC nanoGUNE (San Sebastian, Spain) –** guest researcher within the framework of the European Project " *Acquiring the research and scientific excellence in functionalization of biomedical materials* " funded by Ministry of Science, Education and Sports of the Republic of Croatia and European Social Fund, Project leader: M. Petravić (1. 8. 2016. – 31. 8. 2016.)
4) **CIC nanoGUNE (San Sebastian, Spain) –** guest researcher within the framework of the European Project " *Acquiring the research and scientific excellence in functionalization of biomedical materials* " funded by Ministry of Science, Education and Sports of the Republic of Croatia and European Social Fund, Project leader: M. Petravić (6. 9. 2015. – 30. 10. 2015.)
5) **Max-Planck-Institut fuer Chemische Energiekonversion (Muelheim an der Ruhr, Germany) –** guest researcher within the framework of the Alexander von Humboldt Research Group Linkage Programme project *"The study of soft condensed matter by EPR: dynamics in glassy and crystalline matrices"* (20. 4. 2015. – 30. 4. 2015.)
6) **Elettra Sincrotrone Trieste (Basovizza, Italy)** – line BEAR (S. Nannarone) (20. – 22. 9. 2016., 3. – 5. 10. 2016., 20. – 21. 1. 2017.)

LANGUAGE SKILLS

Croatian (first language)

Other languages	UNDERSTANDING		TALKING		WRITING
	Listening	Reading	Talk interaction	Talk production	
English	C1	C1	B2/C1	B2/C1	C1

PARTICIPATION IN RESEARCH PROJECTS

1) Collaborator on the research project of the Croatian Science Foundation entitled *"The study of long-range correlations and stochastic modeling on cellular level"*; Project leader: prof. dr. sc. Boris Podobnik (2008. – 2014.)

2) Collaborator on the research project of the Croatian Science Foundation entitled *"Molecular Structure and Dynamics of Systems with Paramagnetic Species"*; Project leader: prof. dr. sc. Boris Rakvin (2013. – 2015.)
3) Collaborator on the research project within the framework of the Alexander von Humboldt Research Group Linkage Programme project *"The study of soft condensed matter by EPR: dynamics in glassy and crystalline matrices"*; Project leader: prof. dr. sc. Marina Ilakovac Kveder (2013. – 2015.)
4) Collaborator on the research project within the framework of the European Project "*Acquiring the research and scientific excellence in functionalization of biomedical materials*"; funded by Ministry of Science, Education and Sports of the Republic of Croatia and European Social Fund, Project leader: prof. dr. sc. Mladen Petravić (travanj 2014. – rujan 2016.)
5) Collaborator on the research project *"Modifikacija površina i kontrola defekata za nove primjene naprednih funkcionalnih materijala"*; (funded by the University of Rijeka), Project leader: prof. dr. sc. Mladen Petravić (2014. –)
6) Collaborator on the research project of the Croatian Science Foundation entitled *" Preparation of Porous Thin-film Materials for Water Purification using Atomic Layer Deposition (ALD)"*; Project leader: doc. dr. sc. Gabriela Ambrožić (April 2017. –)
7) Collaborator on the research project *"Ex-situ priprema tankoslojnih hibridnih materijala s tehnikom Depozicije Atomskih Slojeva"*; (funded by the University of Rijeka), Project leader: doc. dr. sc. Gabriela Ambrožić (April 2017. –)

TEACHING

Date	Course	Institution
2008. – 2017.	Physics, University Undergraduate Study Programme in Civil Engineering, (60 hours per year)	Faculty of Civil Engineering, University of Rijeka, Croatia
2008. – 2017.	Physics, University Undergraduate Study Programme in Civil Engineering (30 hours per year)	Faculty of Civil Engineering, University of Rijeka, Croatia
2008. – 2015.	Mechanics 2, University Undergraduate Study Programme in Civil Engineering, (60 hours per year)	Faculty of Civil Engineering, University of Rijeka, Croatia
2008. – 2010.	Physics 1, University Undergraduate Study Programme in Electrotechnics,	Faculty of engineering, University of Rijeka, Croatia

	(60 hours per year)	
2008. – 2010.	Physics 2, University Undergraduate Study Programme in Electrotechnics, (60 hours per year)	Faculty of engineering, University of Rijeka, Croatia
2014. – 2017.	Physics practicum 1, University Undergraduate Study of Physics, (67,5 hours per year)	Department of physics, University of Rijeka, Croatia
2016. – 2017.	Physics II: Electricity and magnetism, University Undergraduate Study of Physics, (45 hours per year)	Department of physics, University of Rijeka, Croatia
2016. – 2017.	Measuring in physics, University Undergraduate Study of Physics, (37,5 hours per year)	Department of physics, University of Rijeka, Croatia

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS AND BODIES

Croatian Physical Society (since 2014.)
Croatian Biophysical Society (since 2014.)
Croatian Vacuum Society (since 2016.)
COST action: Hooking together European research in Atomic Layer Deposition (HERALD), COST Action MP1402 (since 2016.)

LIST OF PUBLICATIONS

Papers published in journals cited by Current Contents

1) M. Kveder, **I. Šarić**, D. Merunka, M. Jokić, S. Valić, B. Rakvin, The anhydrous solid trehalose: low-temperature EPR study of glassy and boson peak modes, *J. Non-Cryst. Solids* 375 (2013) 19-24. (Q1, IF: 1,825)
2) **I. Šarić**, M. Jokić, B. Rakvin, M. Kveder, N. Maltar-Strmečki, The effect of thermal treatment on radiation-induced EPR signals of different polymorphic forms of trehalose, *Appl. Radiat. Isot.* 83 (2014) Part A 41-46. (Q2, IF: 1,136)
3) **I. Šarić**, R. Peter, I. Kavre, I. Jelovica Badovinac, M. Petravić, Oxidation of nickel surfaces by low energy ion bombardment, *Nucl. Instr. Meth. Phys. Res. B: Beam Interactions with Materials and Atoms* 371 (2016) 286-289. (Q2, IF: 1,389)
4) **I. Šarić**, R. Peter, M. Petravić, Oxidation of Cobalt by Oxygen Bombardment at Room Temperature, *J. Phys. Chem. C* 120 (2016) 22421-22425. (Q1, IF: 4,509)
5) J. Katić, M. Metikoš-Huković, **I. Šarić**, M. Petravić, Semiconducting properties of the oxide films formed on tin: Capacitive and XPS studies, *J. Electrochem. Soc.* 163 (2016) 5 C221-C227. (Q1, IF:

2,76)

6) **I. Saric**, R. Peter, I. Kavre Piltaver, I. Jelovica Badovinac, K. Salamon, M. Petravic, Residual chlorine in TiO_2 films grown at low temperatures by plasma enhanced atomic layer deposition, *Thin Solid Films* 628 (2017) 142-147. (Q1 – Surfaces, Coatings and Films, IF: 1,76)

7) I. Kavre Piltaver, R. Peter, **I. Šarić**, K. Salamon, I. Jelovica Badovinac, K. Koshmak, S. Nannarone, I. Delač Marion, M. Petravić, Controlling the grain size of polycrystalline TiO_2 films grown by atomic layer deposition, *Appl. Surf. Sci.* 419 (2017) 564-572. (Q1, IF: 3,15)

8) J. Katić, M. Metikoš-Huković, **I. Šarić**, M. Petravić, Electronic Structure and Redox Behavior of Tin Sulfide Films Potentiostatically Formed on Tin, *J. Electrochem. Soc.* 164 (2017) 7 C383-C389. (Q1, IF: 2,76)

9) R. Peter, **I. Saric**, I. Kavre Piltaver, I. Jelovica Badovinac, M. Petravic, Oxide formation on chromium metal surfaces by low-energy oxygen implantation at room temperature, *Thin Solid Films* 636 (2017) 225-231. (Q1, IF: 1,76)

10) R. Peter, **I. Saric**, M. Petravic, Enhanced oxidation of nickel at room temperature by low-energy oxygen implantation, *Croat. Chem. Acta* 90(2) (2017) 163–168. (Q3, IF: 0,732).

11) I. Kavre Piltaver, I. Jelovica Badovinac, R. Peter, **I. Saric**, M. Petravic, Modification of molybdenum surface by low-energy oxygen implantation at room temperature, *Appl. Surf. Sci.* 425 (2017) 416-422. (Q1, IF: 3,15)

12) K. Salamon, M. Buljan, **I. Šarić**, M. Petravić, S. Bernstorff, Ta_2N_3 nanocrystals grown in Al_2O_3 thin layers, *Beilstein J. Nanotechnol.* 8 (2017) 2162-2170. (Q1, IF: 3,13).

13) A. Omerzu, **I. Saric**, I. Kavre Piltaver, M. Petravica, T. Kapun, J. Zuleb, S. Stifter, K. Salamon, Prevention of spontaneous combustion of cellulose with a thin protective Al_2O_3 coating formed by atomic layer deposition, *Surf. Coat. Technol.*, 333 (2018) 81-86. (Q1, IF: 2,589).

Scientific papers in other journals with an international review

1) I. Jelovica Badovinac, I. Kavre Piltaver, **I. Šarić**, R. Peter, M. Petravić, Oxidation of molybdenum by low energy ion bombardment, *Materiali in tehnologije/Materials and technology* (2017) (prihvaćen za objavu) (SCOPUS baza, Q2, IF: 0,439).

Abstracts in Book of abstracts

1) **I. Saric**, D. Merunka, M. Jokic, B. Rakvin, M. Kveder, Low temperature electron-spin relaxation in molecular solid exhibiting frozen-in disorder, Book of Abstracts: The 11th Greta Pifat Mrzljak International School of Biophysics Biomolecular complexes and assemblies, Primošten, Croatia (2012) 102.

2) **I. Šarić**, D. Merunka, M. Jokić, B. Rakvin, M. Kveder, Utjecaj neuređenosti matrice na dinamiku paramagnetskih centara: EPR spektroskopija krute trehaloze, Knjiga sažetaka 8. znanstvenog sastanka Hrvatskog fizikalnog društva, Zagreb, Croatia (2013) 102.

3) **I. Saric**, M. Jokic, B. Rakvin, M. Kveder, N. Maltar-Strmečki, EPR study of radiation induced radicals in different polymorphic forms of trehalose, Book of abstracts: The Joint

International Symposium on EPR Dosimetry and Dating and the International Conference on Biological Dosimetry, Leiden, Netherlands, (2013) 189.

4) **I. Šarić**, D. Merunka, M. Jokić, B. Rakvin, M. Ilakovac Kveder; Low-temperature EPR study of solid trehalose, Book of abstracts: Dynamics in Soft Matter Probed by Advanced EPR Techniques, Lužnica, Croatia (2014) 22.

5) **I. Šarić**, R. Peter, I. Kavre, I. Jelovica Badovinac, M. Petravić, Oxidation of nickel surface by low energy ion bombardment, Book of Abstracts: 22nd International Conference on Ion Beam Analysis, Opatija, Croatia (2015) 227.

6) I. Jelovica Badovinac, **I. Šarić**, I. Kavre Piltaver, G. Ambrožić, R. Peter, M. Petravić, Narastanje tankih filmova titanovog nitrida i titanovog oksida tehnikom depozicije atomskih slojeva, Knjiga sažetaka: 9. znanstveni sastanak Hrvatskog fizikalnog društva, Umag, October 5th – 7th 2015., (2015) 80.

7) I. Jelovica Badovinac, I. Kavre Piltaver, **I. Šarić**, R. Peter, M. Petravić, Oxidation of molybdenum by low energy ion bombardment, Program and book of abstracts: 24th International conference on materials and technology, Portorož, Slovenia, (2015) 94.

8) A. Stambolić, M. Jenko, A. Kocijan, Č. Donik, M. Petravić, I. Kavre Piltaver, **I. Šarić**, V. Kononenko, Analysis of coatings on the surface of nitinol formed by ALD process; Program and book of abstracts: 24th International conference on materials and technology, Portorož, Slovenia, (2015) 196.

9) **I. Šarić**, R. Peter, I. Kavre Piltaver, I. Jelovica Badovinac, G. Ambrožić, M. Petravić, Investigation of residual chlorine in TiO_2 films grown by atomic layer deposition; Program and book of abstracts / 16th Joint Vacuum Conference (JVC-16), 14th European Vacuum Conference (EVC-14), 23rd Croatian-Slovenian Vacuum Meeting, Ljubljana, Slovenia, (2016) 68-68.

10) **I. Saric**, R. Peter, I. Jelovica Badovinac, I. Kavre Piltaver, G. Ambrozic, A. Omerzu, M. Spreitzer, M. Petravic, On crystalline structure of TiO_2 films grown by plasma-enhanced atomic layer deposition, Book of abstracts: 16th Atomic Layer Deposition Conference, Dublin, Ireland (2016).

11) I. Kavre Piltaver, I. Jelovica Badovinac, **I. Šarić**, R. Peter, M. Petravić, Controlling the grain size of polycrystalline TiO_2 films grown by atomic layer deposition, Book of Abstracts: European Microscopy Congress, Lyon, France (2016).

12) I. Kavre Piltaver, R. Peter, **I. Šarić**, K. Salamon, I. Jelovica Badovinac, K. Koshmak, S. Nannarone, I. Delač Marion, M. Petravić, Controlling the grain size of polycrystalline TiO_2 films grown by atomic layer deposition, Book of abstracts of the 24th International Scientific Meeting on Vacuum Science and Technique, Zadar, Croatia (2017) 10.

13) R. Peter, **I. Šarić**, I. Kavre Piltaver, I. Jelovica Badovinac, M. Petravić, Oxide formation on chromium metal surfaces by low-energy oxygen implantation at room temperature, Book of abstracts of the 24th International Scientific Meeting on Vacuum Science and Technique, Zadar, Croatia (2017) 26.

14) K. Salamon, N. Radić, I. Bogdanović-Radović, M. Buljan, **I. Šarić**, M. Petravić, S. Bernstorff, Ta-N based thin films: on the control of phase and nanostructure, Book of abstracts of the 24th International Scientific Meeting on Vacuum Science and Technique, Zadar, Croatia (2017) 26.

Plenary/Keynote talks

1) **I. Šarić**, D. Merunka, M. Jokić, B. Rakvin, M. Ilakovac Kveder, Low-temperature EPR study of solid trehalose, Dynamics in Soft Matter Probed by Advanced EPR Techniques, Lužnica, Croatia (5. – 9. 5. 2014.)

OTHER IMPORTANT SKILLS AND COMPETENCES

- Programming in MATLAB; using MS OFFICE package and operating system Windows, EasySpin, software for statistical analyses of data.
- Driving license