

Curriculum Vitae
HRZZ Form



PERSONAL INFORMATION

Name and surname **Darija Domazet Jurašin**
 Academic title Ph.D.
 Year and institution of PhD obtained 2010, Faculty of Science, University of Zagreb, Croatia
 Address Bijenička 54
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 Citizenship Croatian
 Date and place of birth 15th December 1977, Zagreb

WORK EXPERIENCE
(CHRONOLOGICALLY*)

Date (from – until) March 2020 –
 Institution Ruđer Bošković Institute
 Position **senior research associate**
 Work field physico-chemical and antibacterial properties of surfactants in solution and solid state, self-assembling of surfactants, synthesis of nanomaterials, application of dynamic light scattering for characterization of nanomaterials and liposomes, physico-chemical properties of biomimetic organic-inorganic composites

Date (from – until) July 2014 – March 2020
 Institution Ruđer Bošković Institute
 Position **research associate**
 Work field physico-chemical properties of surfactants in solution and solid state, self-assembling of surfactants, application of dynamic light scattering for characterization of nanomaterials and liposomes, physico-chemical properties of biomimetic organic-inorganic composites

Date (from – until) February 2011 – July 2014
 Institution Ruđer Bošković Institute
 Position **Post doc, senior research assistant**
 Work field physico-chemical properties of surfactants in solution and solid state, self-assembling of surfactants, application of dynamic light scattering for characterization of nanomaterials, preparation and physico-chemical and biological characterization of biomimetic organic-inorganic composites and biopolymer scaffolds

Date (from – until) September 2004 – February 2011
 Institution Ruđer Bošković Institute
 Position **Ph.D. student, junior researcher**
 Work field physico-chemical properties of surfactants in solution and solid state, self-assembling of surfactants, application of dynamic light scattering for characterization of nanomaterials

EDUCATION
(CHRONOLOGICALLY)

Date	2004 – 2010
Place	Zagreb
Institution	University of Zagreb/Faculty of Sciences, Department of Physical Chemistry
Title of qualification awarded	Ph.D. in chemistry
Date	1996 – 2004
Place	Zagreb
Institution	University of Zagreb/Faculty of Sciences, Department of Inorganic Chemistry
Title of qualification awarded	B.Sc. in chemistry

LANGUAGES**MOTHER TONGUE** Croatian**ENGLISH LANGUAGE**

Speaking	active
Writing	active
Reading	active

RESEARCH AND OTHER PROJECTS
(CHRONOLOGICALLY; LEADER AND ASSOCIATES; FUNDING SOURCE)**Project Leader:**

- 2020 - 2022 - Croatian-Slovenian bilateral project: *Quantitative analysis of lipid peroxidation in model polyunsaturated lipid membranes in the presence of flavonoids using MS and FTIR spectroscopies*
- 2011 - *Characterization of biopolymeric scaffolds interaction with cells*. Project was funded by Unity through Knowledge Fund (UKF), Gaining Experience Grant.

Collaborator:

- 2022. – Europe Horizon project *Surface transfer of pathogens (STOP)*, RBI group leader: Ph.D. Maja Dutour Sikirić
- 2018 – 2023; *Mechanisms of calcium phosphates formation on inorganic nanomaterials. A biomimetic synthetic route for multifunctional nanocomposites for hard tissue regeneration (CaPBiomimNanocomp)*, project leader: Ph.D. Maja Dutour Sikirić. Project is funded by Croatian Science Foundation.
- 2017 – 2022; *Protective mechanisms and effects of nano-delivered flavonoids in model cell membranes and neurons (NanoFlavNeuroProtect)*, project leader: Ph.D. Suzana Šegota. Project is funded by Croatian Science Foundation.
- 2016 – 2017; *Biocompatible nanoparticles with enhanced therapeutic efficacy of flavonoids in food*, project leader: Ph.D. Suzana Šegota. Project was funded by Business Innovation Croatian Agency (BICRO), Proof of Concept.
- 2016 – 2017; Croatian-Serbian bilateral project *Biodegradable nanoparticles with increased flavonoid therapeutic efficacy*, project leader: Ph.D. Suzana Šegota. Project was funded by Croatian Ministry of Science, Education and Sport.
- 2014 - 2017; *Bioinspired materials – Formation Mechanisms and Interaction*, project leader: Ph.D. Damir Kralj. Project was funded by Croatian Science Foundation.
- 2014 – 2016; Croatian-Slovenian bilateral project *Development of calcium phosphate bioceramics for hard tissue regeneration based on biomineralization*, project leader: Ph.D. Maja Dutour Sikirić. Project was funded by Croatian Ministry of Science, Education and Sport.
- 2012 - 2013; *Multifunctional composite coating for bone implants*, project leader: Ph.D. Maja Dutour Sikirić. Project was funded by Business Innovation Croatian Agency (BICRO), Proof of Concept.

- 2007 – 2014; *Surfactants, Processes in Solutions and at Interfaces*, project leader: Ph.D. Nada Filipović-Vinceković (2007 – 2010) and Ph.D. Maja Dutour Sikirić (2010 - 2014). Project was funded by Croatian Ministry of Science, Education and Sport.
- 2010 - 2011; Croatian-Serbian bilateral project *Synthesis of amorphous calcium phosphate by ultrasonic spray pyrolysis*, project leader: Ph.D. Maja Dutour Sikirić. Project was funded by Croatian Ministry of Science, Education and Sport.
- 2007 - 2009; FP6 SSA *INCOMAT Creating international cooperation teams of excellence in the field of emerging biomaterial surface research*, RBI group leader: Ph.D. Maja Dutour Sikirić. Project was funded by EU.
- 2002 - 2006; *Surfactants, Processes in Solutions and at Interfaces*, project leader: Ph.D. Nada Filipović-Vinceković. Project was funded by Croatian Ministry of Science, Education and Sport.

TEACHING

- 2016 – co-lecturer of *Physico-chemical processes in the environment*, Postgraduation interdisciplinary study – Environmental protection organized by University of Osijek and Ruđer Bošković Institute
- 2015/2016 – assistant in *Higher Laboratory Exercises in Physical Chemistry*, Department of Chemistry, Faculty of Science, University of Zagreb
- 2015 – 2018 - assistant in *Biomembranes*, Faculty of Science, University of Zagreb
- 2014 – 2018 - assistant in *Cell Biophysics*, Faculty of Science, University of Zagreb

MENTORSHIP OF DEFENDED DOCTORAL AND MASTER DISSERTATIONS AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS

Mentor or co-mentor:

- Leona Zagorec, 2023, Bachelor Thesis *Self-assembly of dimeric metallosurfactants*, Faculty of chemical engineering and technology, University of Zagreb
- Iva Katalinić Paić, 2020, Bachelor Thesis *Catanionic mixtures of structurally different surfactants*, Faculty of chemical engineering and technology, University of Zagreb
- Sanja Novak, 2015, Graduation Thesis *Interactions in mixtures of sodium bis (2-ethylhexyl) sulfosuccinate (AOT) and ionic liquid*, Faculty of Science, University of Zagreb
- Natali Nakić, 2015, Graduation Thesis *Stability of titanate nanowires in aqueous medium*, Faculty of Science, University of Zagreb
- Ines Bosak, 2012, Graduation Thesis *Precipitation of calcium phosphates in the presence of titanate nanotubes*, Faculty of Science, University of Zagreb
- Mateja Zadavec, 2012, Graduation Thesis *Influence of electrolites on the physico-chemical properties of monomeric and dimeric surfactants*, Faculty of Science, University of Zagreb

VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

- January 2016 - European Commission Joint Research Centre, Ispra, Italy, as part of the FP7 project *SmartNano - Sensitive detection, recognition, and measurement of nanoparticles in complex biological and environmental systems*
- June 2011 - November 2011 - Jožef Stefan Institute, Ljubljana, Slovenia, as part of the project *Characterization of biopolymeric scaffolds interaction with cells*

ORGANIZATIONAL SKILLS AND COMPETENCES

- 2022 - 4th *Croatian Microscopy Congress with international participation*, Poreč, 18.-20.5.2022., member of organizing committee
- 19th December 2008 - FP6 SSA project *INCOMAT workshop Creating international cooperation teams of excellence in the field of emerging biomaterial surface research*, co-organizer

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

- European Colloid & Interface Society (ECIS)
- Croatian microscopy society

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

- from 2014 Member and from 2016 President of Technical Subcommittee 91 *Surface active agents*, Croatian Standards Institute
- 2014 – 2017; substitute member of Management Committee in the COST Action MP1301 – *New Generation Biomimetic and Customized Implants for Bone Engineering (NEWGEN)* and MP1308 - *Towards Oxide-Based Electronics (TO-BE)*

ADDITIONAL INFORMATION

- **reviewer** for Langmuir, Soft Matter, RCS Advances, Journal of Materials Chemistry C, Colloid 4 and Polymer Science, Journal of Molecular Liquids, Journal of Surfactants and Detergents, Acta Pharmaceutica, Materials

PUBLICATION LIST

- I have co-authored **49 scientific papers** in journals cited by Web of Science (total number of citations = 900, *h*-index = 18, October 2023), and **2 chapters in a book** (1 chapter is indexed in the Book Citation Index in the Web of Science Core Collection).
- I have participated in more than **60 conferences** (oral, posters, and conference proceedings).
- The full list of papers and contributions is available on:
<https://www.croris.hr/crosbi/searchByContext/2/5533?lang=en>

<https://orcid.org/0000-0001-5261-5961>