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CROSBİ Uri: <https://bib.irb.hr/lista-radova?autor=295735>

Education

2007-2012 Ph.D in Oceanology, University of Zagreb, Faculty of Science.

2001-2006 Dipl. Ing. in Chemistry (M.Sc. equivalent), University of Zagreb, Faculty of Science.

Working positions

2017- Research associate, Ruđer Bošković Institute (RBI)

2015-2016 Postdoctoral researcher, Institute of Biophysics, Brno, Czech Republic

2013-2017 Senior research assistant, RBI

2007-2012 Research assistant, RBI

2006-2007 Associate, RBI

Research interest

Electrochemical characterization of polysaccharides and proteins in natural waters and model solutions; Interactions of biomolecules with metal ions and pollutants; Physico-chemical properties of organic matter in natural waters and atmosphere; Biogeochemical processes in natural waters and atmosphere

Research projects

2020-2024 "Career Development Project for Young Researchers - Training of New Doctors of Science", HRZZ project, supervisor of new PhD student

2018-2022 "Biochemical responses of oligotrophic Adriatic surface ecosystems to atmospheric deposition inputs (BIREADI)", HRZZ project, collaborator

2017-2018 "Estimating the role of biogenic organosulfur compounds in formation and properties of organic aerosols", Croatian-Slovenian bilateral project, collaborator

2015-2016 "Electrochemical study of polysaccharide-protein molecular interactions and their relevance in the selective sensing of polysaccharides in mixtures", Marie Curie FP7-PEOPLE-2011-COFUND project (NEWFELPRO), leader

2015-2019 "New methodological approach to biogeochemical studies of trace metal speciation in coastal aquatic ecosystems" HRZZ project, collaborator

2014-2018 "Appearance and interaction of biologically important organic molecules and micronutrient metals in marine ecosystem under environmental stress", HRZZ project, collaborator

2009-2012 "Sensors based on biomembranes for the detection of toxins and pollutants", NATO (SfP) project, collaborator

2007-2013 "Nature of the organic matter, interaction with traces and surfaces in the environment", MSES, collaborator

2006-2009 "Marine Science and Coastal Management in the Adriatic, Western Balkans. An Education and Research Network", Norwegian Cooperation Programme on Research and Higher Education with countries in the Western Balkans, collaborator

2006-2007 "Electrochemical Characterization of Marine Polysaccharides", DFG project, collaborator

Trainings and courses

2015 Workshop „Organic Ligands - A Key Control on Trace Metal Biogeochemistry in the Ocean", Šibenik, Croatia; 2012 Training school: „Are your GEOTRACES data reliable?", Geel, Belgium; 2009 „English writing course", Belgrade, Serbia; 2008 „Bath Electrochemistry Winter School", Bath, UK; 2007 "Marine Chemistry-Analytical Methods, trace elements and organic matter in marine environment", Zagreb, Croatia; 2007 "Marine Ecology", Kotor, Montenegro; 2007 "Sediments-From Sampling to Analysis", Mljet Island, Croatia

Fellowships and awards

2014 Marie Curie FP7-PEOPLE-2011-COFUND fellowship (NEWFELPRO); 2014 Award for scientific achievement in 2013 given by the Division for marine and Environmental Research, RBI; 2013 Annual award of RBI; 2012 COST and IRMM fellowship for „Training school: Are your GEOTRACES data reliable?"; 2001-2005 National scholarship

Supervision of students

2018 Supervision of 1 MSc student

Organisation

2018 Chairman of the Organizing Committee of the scientific conference "5th Day of Electrochemistry and 8th ISE SSRSE", Zagreb, Croatia

Memberships and activities in scientific organizations

Member of: Marie Curie Alumni Association (2018-to date), International Society of Electrochemistry (2012-to date), Croatian Society of Chemical Engineers (2007-to date); MC Substitute in COST Action CA16109 Chemical on-line composition and source apportionment of fine aerosol (COLOSSAL) (2017-2021)

Scientometrics: WoS papers: 26; No of citations: 198; H-index: 9

Relevant papers

- Černocká, H., Izadi, N., Ostatná, V., **Strmečki, S.**, BSA-Polysaccharide Interactions at Negatively Charged Electrode Surface. Effects of Current Density. *Electroanalysis*. 31 (2019), 10; 2007-2011
- **Strmečki, S.**, Paleček, E. Adsorption/desorption of biomacromolecules involved in catalytic hydrogen evolution. *Bioelectrochemistry*, 120 (2018), C; 87-93.
- Plavšić, M., **Strmečki, S.** Carbohydrate polymers as constituents of exopolymer substances in seawater, their complexing properties towards copper ions, surface and catalytic activity determined by electrochemical methods. *Carbohydrate Polymers*, 135 (2016), 48-56.

Other: Experience in the use of electrochemical techniques, immunoassay techniques, spectrophotometry, HPLC, organization of fieldwork. Married, mother of three children.