



Education

1992 B.Sc. Chemistry, University of Ljubljana, Faculty for Chemistry and Chemical Technology, SI
1998 Ph.D. Chemistry, University of Ljubljana, Faculty for Chemistry and Chemical Technology, SI

Employment

1993-1998 National Institute of Chemistry (NIC), SI, Laboratory for Inorganic Chemistry and Technology, PhD student, work in the field of synthesis and characterisation of porous materials
1995-1996 University of Manchester, GB, School of Chemistry, visiting researcher at the Structural Chemistry department, development of crystallographic methods
1998-2001 National Institute of Chemistry, Research Assistant
2001-2007 National Institute of Chemistry, Research Associate
2007-2019 National Institute of Chemistry, Senior Research Associate
2019- National Institute of Chemistry, Senior Research Advisor
2004-2009 University of Nova Gorica, SI, part-time employment, Assistant Professor for "Chemistry"
2009-2016 University of Nova Gorica, part-time employment, Associate Professor for "Chemistry"
2016- University of Nova Gorica, part-time employment, Full Professor for "Chemistry"
2010- 2014 Centre of Excellence Low-Carbon Technologies, part-time employment, Head of research and development group "Materials for hydrogen storage"
2013- Head of the Department of Inorganic Chemistry and Technology, National Institute of Chemistry
2014 ZAE Bayern Centre for Applied Energy Research, Garching, D, visiting scientist, work in the field of materials for heat storage

Teaching activities

2004- University of Nova Gorica, responsible for graduate and post-graduate courses in General Chemistry, Materials Chemistry, Diffraction methods of characterisation, Crystallography and Metal-organic framework materials
2017- Director of Master study program Materials Science at the University of Nova Gorica

Current functions in Associations and Committees

2011- Member of Senate at the Faculty of Management and Engineering at the University of Nova Gorica
2013- Member of Scientific Council at National Institute of Chemistry, Slovenia
2013- President of Slovenian Zeolite Association (SiZA), which is a full member of the Federation of European Zeolite Associations (FEZA)
2013- Member of the Board of the Slovenian Chemical Society
2014- Member of the Board Council of the Centre of Excellence CONOT
2014- Member of the Scientific Committee of EuroMOF conferences
2015- Treasurer of Federation of European Zeolite Associations (FEZA)
2016- Member of the Synthesis Commission of International Zeolite Association (IZA)
2016- Member of the Scientific Committee for Interdisciplinary research in the Slovenian Research Agency (ARRS)
2017- Member of the Board of Governors at National Institute of Chemistry, Slovenia
2017- Member of the Board of Governors of Strategic development and innovation partnership "Circular Economy", Slovenia
2019- Member of the Senate of the University of Nova Gorica

Main research fields

- **Development of new zeolite, aluminophosphate and metal-organic framework materials with optimised/selective sorption properties for heat storage/transformation and selective gas capture for energy and environmental applications**
- **Studies of sorption mechanisms of metals on porous adsorbents for their efficient removal from waste-water and drinking water for environmental applications**
- **Structural studies of porous catalysts and adsorbents with X-ray diffraction and complementary spectroscopic techniques**

International activities

- MATERA ERA-NET project "STOREHEAT" New materials for sorption-based thermal energy storage - project coordinator (2011-2014)
- Project EUREKA PUREWATER E! 4208 Natural zeolites for the removal of heavy metals from wastewater - acting project coordinator (2008-2011)
- Coordinating/co-coordinating other bilateral/multilateral scientific projects, e.g. Proteus (2003-2015), Partnership in Science (2002-2008), Slovenian-Croatian (2003-2019), Slovenian-Serbian-Montenegrin (2004-2019), Slovenian-Hungarian (2006-2012), SCOPES-Slovenian part (2014-2017), scientific cooperation with Uni. of Manchester - contract between SAZU in The Royal Society from London (1995-)
- Cooperation in COST actions, recently FP1306 in TD1203
- Mentorship/supervision of foreign doctoral and post-doctoral researchers at NIC up to 6; member of the defence commissions for doctoral and master theses at Universities of Zagreb, Belgrade and Podgorica
- Experimental projects – measurements at synchrotrons in Trieste, Daresbury, Hamburg, etc.
- Working visits abroad, including University of Manchester, CNRS-ISMRA, Caen, University Pierre in Marie Curie, Paris, University of Zagreb, University of Belgrade, University of Monte Negro, IMDEA Energy Institute, Madrid, University of Leipzig, University of Versailles, etc.