

Prof. Dr. NATAŠA NOVAK TUŠAR – Curriculum Vitae

Since 2022 **Head of the Laboratory for catalysts**, Research professor, Department of Inorganic Chemistry and Technology (D09), National Institute of Chemistry (NIC), Ljubljana, Slovenia (SI)

EDUCATION 2000 PhD. In Chemistry and 1991, B.S. chemical technology, University of Ljubljana, SI

MAIN APPOINTMENTS

2020-present head of the Laboratory (from 2022 Laboratory for catalysts) at D09 at NIC, SI

2017-present lecturing at University of Ljubljana, Slovenia

2006-present lecturing at University of Nova Gorica, SI, part time, **since 2018 full professor of material science and founder and director of doctoral program Materials at Graduate School**

2013-2020 group leader for catalysis at D09 at NIC, SI

2010-2015 research associate professor at Centre of Excellence for Low-Carbon Technologies at NIC, SI

2003-2004 **EU reserach grant: MARIE CURIE individual fellowship** (1 year) at University of Trieste and Synchrotron ELETTRA, Italy

1991-1992 technologist, DINOS (1 year) – Company for recycling wastes, Ljubljana, SI

1990-1991 B.S. student (1 year), Fraunhofer Institut für Umweltchemie und Ökotoxikologie, Schmallenberg, Germany

RESEARCH INTERESTS AND RECOGNITION

Research interests in the field of design and development of porous catalysts/photocatalysts in heterogeneous catalysis

for environmental and energy applications. A special focus is air purification (head of the new Slovenian Research Agency programme launched in 2022: P1-0418 entitled Chemistry of catalysts for clean air), 5 of the most important publications: Applied Catalysis B, Environmental 2020 (IF=19.4) and 2016 (IF=9.4), J. Materials Chemistry A 2018 (IF=10.7), ChemSusChem 2015 (IF=7.1), Advanced Functional Materials 2012 (IF=9.8), co-author of more than 80 ISI publications, h-index 24 (Google Scholar), PI/participant of 4/7 National and 7/2 International projects, PI of 6 Bilateral projects, Supervisor of 4 postdocs and 4 PhD students, menthor of more than 15 undergraduate and graduate students (MSc and BSc degrees), invited talks at conferences (27, including 2 planary and 2 keynotes) and at universities (16).

MAIN PROJECTS IN THE LAST 5 YEARS

2022-2027 leader of Slovenian Research Agency program P1-0418: Chemistry of catalysts for clean air

2020-2021 UNESCO participation programme: Training of young scientists in innovative approaches for CO₂ capture and utilization towards circular economy

2018-2022 leader of NIC industrial project with the company NESTE engineering solutions, Finland, within the EU HORIZON 2020 project REWOFUEL (title: REsidual soft WOOD conversion to high characteristics drop-in bioFUEL)

2017-2018 leader of industrial project NIC – Global Bioenergies GmbH, France/Germany, (title: Optimization of iso-butene to iso-octene catalytic conversion)

2015-2018 leader of Flemish (FWO – Research Fondation Flanders as Lead Agency) - Slovenia (ARRS) research project with University of Antwerp, Belgium N1-0028 (title: Development of advanced TiO₂-based photocatalyst for the degradation of organic pollutants from wastewater)

2016-2018 group leader for advanced characterization on the applied project L1-7665 (title: Thermo- and photo-active coatings for windows) with University of Nova Gorica

Representative of Slovenia in MC of EU COST actions: FP1306 (2014-2018), CA20126 (2021-2025).

Leader of several experimental projects at synchrotrons (ELETTRA Italy, LANSCE USA).

AWARDS 2021 Slovenian Research Agency award »Excellence in science«

OTHER PROFESSIONAL ACTIVITIES

Coordinator of Pregl Colloquium at NIC since 2017 (for world renowned eminent lecturers).

Member of the Board of Directors of ENMIX (European Nanoporous Materials Institute of Excellence) since 2013 and of EFCATS (European Federation of Catalysis Societies) since 2019.

Member of the editorial boards of the journals Catalysis communications and Frontiers in chemistry.

Organizing conferences: 2009 2nd Slovenian-Croatian symposium on zeolites, 2010 EMEC 11, 2011 4th Slovenian-Serbian-Croatian-Serbian Symposium on Zeolites, 2012 SLOANO, 2014 ENMIX workshop, 2017 NPM-2, 2017 7th Slovenian-Croatian Symposium on Zeolites, 2019 EAAOP-6, 2010 EFCATS Summer School, 2022 NMP-6 and PAOT-7.