

## Dr. Igor A. Pašti, associate professor

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**h-index:** 21, **i10-index:** 35, **citations:** 1249 (Google Scholar, 04/02/2018)

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### CAREER SUMMARY

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Dr. Igor Pašti graduated in 2007 and obtained PhD in 2009 at the University of Belgrade – Faculty of Physical Chemistry. Between 2007 and 2017 he made several academic visits to the Institute of Physical Chemistry (Heidelberg, Germany), KTH (Stockholm, Sweden) and BTU (Campus Senftenberg, Germany). Currently he is associate professor and vice-dean for research and PhD studies at the University of Belgrade – Faculty of Physical Chemistry. He teaches Electrochemistry (BSc level), Electrode Kinetics (MSc and PhD level) and Materials Science (MSc level). His research is focused on theoretical and experimental studies of electrode materials and surface processes related to energy conversion applications. Dr. Pašti has published over 80 papers in scientific peer reviewed journals and holds 2 national patents. He is author of two university textbooks. For the scientific achievements he was awarded by the Serbian Academy of Sciences and Arts in 2012.

### PROFESIONAL CAREER

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2017 – Visiting Researcher, KTH – Royal Institute of Technology, Sweden

2016 – Associate professor, University of Belgrade – Faculty of Physical Chemistry

2011 – 2016 Assistant professor, University of Belgrade – Faculty of Physical Chemistry

2008 – 2011 Teaching assistant, University of Belgrade – Faculty of Physical Chemistry

2007 – 2008 Junior teaching assistant, University of Belgrade – Faculty of Physical Chemistry

## **EDUCATION**

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- 2007 – 2009 PhD studies in Physical Chemistry, University of Belgrade – Faculty of Physical Chemistry  
2003 – 2007 BSc studies in Physical Chemistry, University of Belgrade – Faculty of Physical Chemistry

## **PARTICIPATION IN NATIONAL PROJECTS**

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- 2011 – 2018 Project III45014 „Lithium-ion batteries and fuel cell: research and development“, financed by Serbian Ministry of Education, Science and Technological Development, (PI – Prof. Dr Slavko Mentus)
- 2008 – 2010 Project no. 142047 „Structure, thermodynamic and electrochemical properties of contemporary materials for energy conversion and new technologies “financed by Serbian Ministry of Science and Technological Development, (PI – Prof. Dr SlavkoMentus)

## **PARTICIPATION IN INTERNATIONAL PROJECT**

- 2015 – 2018 NATO-Science for Peace and Security (SPS) Programme, Project G4925 - "DURAPEM - Novel Materials for Durable Proton Exchange Membrane Fuel Cells".
- 2014-2017 SCOPES (Scientific cooperation between Eastern Europe and Switzerland – project no. IZ73ZO\_152457 “Conducting polymers synthesized by enzymatic polymerization”, financed by Swiss National Science Foundation (SNSF) and the Swiss Agency for Development and Co-operation (SDC).
- 2012-2015 FP7 JTI FCH-JU project “EURECA” (Efficient use of energy converting applications), project reference 303024 (PI for Serbia Dr Milica Marčeta Kaninski, INN Vinča)
- 2012-2015 “Catalysis by metal clusters supported by complex oxide systems” (collaborative grant), financed by Swedish Research Council, (PI: Natalia Skorodumova, KTH Stockholm, Sweden)
- 2013 – 2014 Danube States R&D network project: "New materials and devices based on conducting polymers and their composites", financed by the German Federal Ministry of Education and Research.
- 2010 – 2011 Bilateral project "Distribude simulation of biomolecules dynamics on computer grid" University of Belgrade – Faculty of Physical Chemistry (Belgrade, Serbia) and Insitute Ruđer Bošković (Zagred, Croatia).

2007-2008 “Agreement on Research Cooperation on the Electode Materials for Lithium Polymer Batteries” (Varta Microbattery GmbH / University of Belgrade - Faculty of Physical Chemistry )

#### ***NON SCIENTIFIC PROJECT***

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2015, 2017 “Science around us” (project devoted to the promotion of science, financed by Serbian Center for the Promotion of Science), project leader

#### ***REVIEWER OF JOURNAL PAPERS***

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Nature Communications, ACS Catalysis, ACS Applied Materials & Interfaces, Journal of Physical Chemistry, Electrochimica Acta, Computational Material Science, Chemical Physics, Physical Chemistry Chemical Physics, International Journal of Hydrogen Energy, Journal of Alloys and Compounds, Applied Surface Science, Synthetic Metals, Ionics, MATCH, Materials Science in Semiconductor Processing, Analytical Letters, Journal of Computational Science, Materials Chemistry and Physics, International Journal of Electrochemical Sciences, Chemistry of Materials, Journal of Electroanalytical Chemistry, Journal of Nanostructure in Chemistry, Chemical Engineering Science, Journal of Serbian Chemical Society, Hemijska Industrija

#### ***MEMBERSHIP IN THE PROGRAM COMMITTEES OF CONFERENCES***

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12th International Conference on Fundamental and Applied Aspects of Physical Chemistry “PHYSICAL CHEMISTRY 2014”, September 22–26, Belgrade

1st Workshop on Materials Science for Energy Related Applications, Belgrade, September 26-27, 2014.

#### ***MENTOR OF PHD STUDENTS***

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Defended theses:

1. Dragana D. Vasić-Anićijević “Theoretical analysis of tungsten carbide properties as an electrocatalyst support for hydrogen electrode reactions”

2. Igor V. Milanović, "Synthesis and characterization of complex and metal hydrides for hydrogen energy applications"

3. Nemanja M. Gavrilov, "Application of carbonized nanostructured polyaniline in electrocatalysis and electrical energy storage"

4. Vladimir Nikolić, "Influence of the tungsten carbide and carbon anode catalyst supports on PEM fuel cell performance"

5. Vladimir E. Tanasković, "Investigation of oxygen reduction on polycrystalline platinum electrode in liquid water-aprotic solvent systems"