

Ana Dobrota

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Work Experience

Faculty of Physical Chemistry, University of Belgrade

Teaching Assistant 2016 –

Courses:

- Electrochemistry
- Atomistics
- Basic Mathematics for Physical Chemists
- Physical Chemistry 1 (Faculty of Chemistry)

Research Trainee 2015 –

Research projects:

- “Lithium ion batteries and fuel cells – research and development”
Ministry of Education, Science and Technological Development of the Republic of Serbia. PI: Prof. Slavko Mentus, PhD, academician.
- “DURAPEM - Novel materials for durable proton exchange membrane fuel cells”, NATO Emerging Security Challenges Division, SPS Programme.
- DANUBE REGION project “Conducting polymer composites”

Faculty of Agriculture, University of Belgrade 2016–2017.

Part-time Teaching Assistant, Course: Physical Chemistry

Education

Faculty of Physical Chemistry, University of Belgrade

Doctor of Philosophy 2017.

Thesis: *Theoretical Analysis of Graphene Functionalization for Energy Conversion and Storage Applications*

Master of Science 2014.

Field: Electrochemistry and Chemical Kinetics

Bachelor of Science 2013.

III Belgrade gymnasium 2009.

Training

KTH Royal Institute of Technology, Stockholm, Sweden 2015.
one-month study visit

Conferences

- *Graphene-based components and flexible electronic/sensing devices* 2017.
- *2nd International Meeting on Materials Science for Energy Related Applications* 2016.
- *2nd & 3rd Conference of Young Chemists of Serbia* 2015-2016.
- *13th - 16th Young Researchers' Conference* 2014-2017.

TRAIN – Training and Research for Academic Newcomers 2015.

Summer school at the Faculty of Physical Chemistry 2013.

Awards

Pupin award of Matica srpska 2017.
for master thesis "Theoretical analysis of H, O and OH adsorption on graphene-oxide"

Special acknowledgement of the Serbian Chemical Society 2014.

"Pavle Savić" diploma by the Society of the Physical Chemists of Serbia 2014.

"Sestre Bulajić" foundation award 2013.
for the best bachelor thesis in the field of physical chemistry

Memberships

Society of the Physical Chemists of Serbia
Serbian Chemical Society

Interests

Materials modelling, DFT calculations, surface functionalization, graphene based materials.

Selected publications

- Dobrota, A. S., Pašti, I. A., Mentus, S. V., & Skorodumova, N. V. (2017). *A DFT study of the interplay between dopants and oxygen functional groups over the graphene basal plane-implications in energy-related applications*. Phys. Chem. Chem. Phys., 19(12), 8530-8540.
- Dobrota, A. S., Pašti, I. A., Mentus, S. V., & Skorodumova, N. V. (2016). *A general view on the reactivity of the oxygen-functionalized graphene basal plane*. Phys. Chem. Chem. Phys., 18(9), 6580-6586.
- Chanda, D., Hnát, J., Dobrota, A. S., Pašti, I. A., Paidar, M., & Bouzek, K. (2015). *The effect of surface modification by reduced graphene oxide on the electrocatalytic activity of nickel towards the hydrogen evolution reaction*. Phys. Chem. Chem. Phys., 17(40), 26864-26874.