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## Working Experience

- 2008 – present, University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection

### Duties:

- **Research Assistant** – Photocatalytic degradation of frequently used drugs and molecular modeling of organic molecules and nanostructures
- **Teaching Assistant** - Practical exercises of Instrumental Analysis, Analytical Chemistry of Environment, Practicum of Instrumental Analysis, Statistical Analysis of Results in Chemistry, Information in Chemistry, Analytical Spectrometry, Separation Techniques and Chemometrics
- **Secretary of the Section for Analytical Chemistry** at the Department of Chemistry, Biochemistry and Environmental Protection
- **Member of the organizing committee** of the International Conference of Chemistry and Oxidation Technologies conference, Guangzhou, China (2016)
- **Member of the Organizing Committee** during "52. Serbian Chemical Society Symposium" held in Novi Sad (2015)
- **Presentation of study plans and programs in secondary schools** in Vojvodina, as well as within the workshop "The colorful world of chemistry" (2013), "CSI chemical tim Novi Sad" (2014) and "Chemist in the food industry" (2015 and 2016) in the framework of "Chemistry weekend"

## Education

- **PhD in Analytical and Physical Chemistry (2016)**, University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection
- **Graduated Chemist (2008)**, University of Novi Sad, Faculty of Sciences, Department of Chemistry, average mark 9.67/10.00

## Rewards

- **Runner-up paper in Excellence in Materials Science Applications Publication Contest**, held by Schrödinger Inc (2016)
- **Reward for the best poster presentation at YUCOMAT 2015 conference**, organized by Materials Research Society of Serbia (2015)
- **Special Reward of Serbian Chemical Society**, for outstanding success during studies (2010)
- **I Prize of Nenad Kostic Fund (Serbia) for Chemical Sciences**, for the best Diploma work in Chemistry (2009)
- **Reward of University of Novi Sad**, for outstanding success during studies (2009, 2008, 2006)
- **II Prize at Competition of Faculties of Sciences**, Synthesis and characterization of Ni (II) complexes with S-tiosemicarbazone as ligand (2005)

## Certificates and visits to other institutions

- **Research work in Szeged, Hungary**, (17–21. 01. 2011. and 4–8. 04. 2011.) within the international IPA project “Optimization of Cost Effective and Environmentally Friendly Procedures for Treatment of Regional Water Resources“ (HU-SRB/0901/121/116 OCEEFPTRWR, 2010–2011)
- **Utrecht Summer School** (16-27. 08. 2010.) course “Nanomaterials: Science and Applications”, acquired the appropriate certificate and maximum 3 ECTS points, University of Utrecht, Netherlands
- **Evaluation of Measurement Uncertainty Seminar (2008)**, organized by Association of Chemical Engineers, Belgrade, Serbia

## Languages

- **English** (writing-very good, reading-very good, speech-very good)
- **German** (writing-ground level, reading-ground level, speech-ground level)
- **Slovak** (Ground level of understanding)

## Computer skills

- **Molecular modeling programs and software tools:** Schrödinger Materials Science Suite (Jaguar for DFT, Desmond and MacroModel for Molecular Dynamics, Canvas for Cheminformatics and QSAR), Gaussian 03/09 with GaussView 5, GAMESS 2013 R1, Avogadro
- **Programs:** Origin, Mathematica, ChemOffice, MS Office, Corel Draw, Photoshop

## Research Grants

1. **2017 – present**  
Comparison of photocatalytic efficiencies of Zr/Fe<sub>3</sub>O<sub>4</sub> and Si/ZrO<sub>2</sub> nanopowders in degradation of biologically active compounds present in environment, by application of simulated sun irradiation – Funded by Provincial Secretariat for Science and Technological Development – researcher
2. **2015- present**, Support by Schrödinger Inc, license for Materials Science Modeling Suite
3. **2011-present**, "Development of methods for monitoring and removal of biologically active substances in order to improve the quality of the environment" of the Ministry of Science and Technological Development of the Republic of Serbia (Project Number: ON172042), Project Leader Dr. Biljana Abramović.
4. **2014-2015**, "Application of polyaniline/TiO<sub>2</sub> nanoparticle photocatalysts for the removal of organic pollutants from water and estimates of their toxicity," the Provincial Secretariat for Science and Technological Development (Project Number: 114-451-1504/2014-03), Project Leader Dr. Daniela Šojić.
5. **2010-2011**, International IPA project "Optimization of Cost Effective and Environmentally Friendly Procedures for Treatment of Regional Water Resources' (HU-SRB / 0901/121/116 OCEEFPTRWR), Project Leader Dr. Biljana Abramović
6. **2006-2010**, "Development of new and improvement of existing methods of monitoring and improving the quality of the environment" of the Ministry of Science and Technology of the Republic of Serbia (Project Number: ON142029), Project Leader Dr. Biljana Abramović.

## Publications

Complete publication list can be seen at <http://www.armakovic.com/publications1.html>

Selected 10 publications:

1. S.J. Armaković, M. Grujić-Brojčin, M. Šćepanović, S. Armaković, A. Golubović, B. Babić, B.F. Abramović, Efficiency of La-doped TiO<sub>2</sub> calcined at different temperatures in photocatalytic degradation of  $\beta$ -blockers, *Arabian Journal of Chemistry* (2017) DOI 10.1016/j.arabj.c.2017.01.001. IF 3.613
2. S. Papović, M. Vraneš, S. Armaković, S.J. Armaković, K. Mészáros-Szécsényi, M. Bešter-Rogač, S. Gadžurić, Investigation of 1,2,3-trialkylimidazolium ionic liquids: experiment and density functional theory calculations, *New Journal of Chemistry* **41** (2017) 650–660. IF 3.277
3. M. Vraneš, I. Borišev, A. Tot, S. Armaković, S.J. Armaković, D. Jović, S. Gadžurić, A. Dorđević, Self-assembling, reactivity and molecular dynamics of fullerene nanoparticles, *Physical Chemistry Chemical Physics* **19** (2017) 135–144. IF 4.449
4. S. Armaković, S.J. Armaković, S. Koziel, Optoelectronic properties of curved carbon systems, *Carbon* **111** (2017) 371–379. IF 6.198
5. B. Barta Holló, J. Magyari, S. Armaković, G.A. Bogdanović, M.V. Rodić, S.J. Armaković, J. Molnár, G. Spengler, V.M. Leovac, K. Mészáros Szécsényi, Synthesis, structural and thermal characterization, reactivity assessment by DFT computations and biological evaluation of a hydrazone derivative and its coordination compounds with Co(III), Ni(II), Cu(II) and Zn(II), *New Journal of Chemistry* **40** (2016) 5885–5895. IF 3.277
6. S. Armaković, S.J. Armaković, S. Pelemiš, D. Mirjanić, Influence of sumanene modifications with boron and nitrogen atoms to its hydrogen adsorption properties, *Physical Chemistry Chemical Physics* **18** (2016) 2859–2870. IF 4.493
7. S.J. Armaković, S. Armaković, N.L. Finčur, F. Šibul, D. Vione, J.P. Šetrajčić, B.F. Abramović, Influence of electron acceptors on the kinetics of metoprolol photocatalytic degradation in TiO<sub>2</sub> suspension. A combined experimental and theoretical study, *RSC Advances* **5** (2015) 54589–54604. IF 3.840
8. D.D. Četojević-Simin, S.J. Armaković, D.V. Šojić, B.F. Abramović, Toxicity assessment of metoprolol and its photodegradation mixtures obtained by using different type of TiO<sub>2</sub> catalysts in the mammalian cell lines, *Science of the Total Environment* **463–464** (2013) 968–974. IF 3.286
9. S. Armaković, S.J. Armaković, J.P. Šetrajčić, Hydrogen storage properties of sumanene, *International Journal of Hydrogen Energy* **38** (2013) 12190–12198. IF 4.054
10. B. Abramović, S. Kler, D. Šojić, M. Laušević, T. Radović, D. Vione, Photocatalytic degradation of metoprolol tartrate in suspensions of two TiO<sub>2</sub>-based photocatalysts with different surface area. Identification of intermediates and proposal of degradation pathways, *Journal of Hazardous Materials* **198** (2011) 123–132. IF 4.173

## Citations

	Google Scholar	Scopus
Total number	429	413
h-index	12	12

## Reviews

- **Lead Guest Editor** for a Special Issue of the Journal of Chemistry (Hindawi)
- **Guest Editor** for Micro & Nano Technology Books: Advanced Nanomaterials Series (Elsevier)
- **Verified reviewer at Publons** – <https://publons.com/author/836249/dr-sanja-armakovic#profile>  
21 verified pre-publication reviews, has reviewed for journals:
  - RSC Advances
  - Journal of Molecular Structure
  - Chemical Physics Letters
  - Materials Chemistry and Physics
  - Journal of Molecular Liquids
  - Journal of Solution Chemistry
  - Arabian Journal of Chemistry
  - Karbala International Journal of Modern Science
  - Advances in Materials Chemistry
  - International Conference of Chemistry and Oxidation Technologies

## Other

- Member of the Serbian Chemical Society - Chemical Society of Vojvodina
- Member of the Materials Research Society of Serbia
- Member of Tendoryu Aikido club "Seiunkan" from Novi Sad
- Driving license B category, active driver
- Hobby: Painting and decoupage
- She is married to Stevan with whom she has a son Philip