ALEKSANDRA JANOŠEVIĆ LEŽAIĆ

Employment Information:

- 2021. Associate Professor
- 2015. – 2021. Assistant Professor
- 2009. – 2015. Teaching assistant
- 2007. – 2009. Research Assistant

Education:

- 2012. – Ph.D. Physical Chemistry – defended Ph.D. thesis entitled: "Synthesis and characterization of nanostructured polyanilines: oxidative polymerization of anilines in the presence of phenolic acids", Faculty of Physical Chemistry, University of Belgrade.
- 2007. – M. Sc. Physical Chemistry – defended Master thesis entitled: "Chemical oxidative polymerization of aniline in the presence of phenolic acids and their salts", Faculty of Physical Chemistry, University of Belgrade.
- 2005. – B. Sc. Physical Chemistry – Faculty of Physical Chemistry, University of Belgrade.

Training:

- May 2014. – Brandenburgische Technische Universitat Cottbus-Senftenberg, Fakultat fur Naturwissenschaften, Senftenberg, Germany
- July 2014 –Research visit to ETH Zurich, Institute of Polymers, Zurich, Switzarland
- Education for Improving teachers and associates teaching competencies thought continuous education, develop and enhance an appropriate relationship with students and introduce the rules of formal communication (Faculty of Pharmacy, University of Belgrade, December 5, 21, 2019)
- Training "Safe work with chemicals and waste disposal." (Faculty of Pharmacy, University of Belgrade, March 5, 2015)
- Training within the course for conducting internal audits of the quality management system according to the standard SRPS ISO 9001: 2008 (BSB Consulting Agency, October 3, 2014)
- training for work on LC / MS / MC (Waters Acquity UPLC system with Xevo TQD)

Academic awards and distinctions:

- 2018. – Mentor of the research awarded with the First prize for chemistry at Student Congress of Biomedical Sciences of Serbia with international participation.

Teaching activities:

- Integrated academic studies – Courses: Instrumental Methods (for foreign students study program: Pharmacy), Instrumental Methods (study program: Pharmacy and Pharmacy - Medical Biochemistry), Colloid Chemistry (study programs: Pharmacy and Pharmacy - Medical Biochemistry),Colloid Chemistry (for foreign students study program: Pharmacy)
- Doctoral studies – Selected instrumental methods (module - Bromatology) and Selected chapters of instrumental (module - Pharmacognosy)
- Member of the Committee for the defense of one doctoral dissertation at Faculty of Pharmacy, University of Belgrade (2021)
- Member of the Committee for the defense of one doctoral dissertation at Faculty of Chemistry, University of Belgrade (2021)
- Mentor of 10 graduation thesis undergraduate theses at Faculty of Pharmacy, University of Belgrade
- Member of 39 Committees for undergraduate theses at Faculty of Pharmacy and one at Faculty of Physical Chemistry, University of Belgrade
- Mentor/co-mentor of 10 students scientific research papers presented at Student congress of biomedical sciences of Serbia, with international participation

Textbooks:

- Vesna Kuntić, Slavica Blagojević, Mara Aleksić, Aleksandra Janošević Ležaić, Leposava Pavun, Svetlana Mićić,
  Instrumental methods – Practicum with examples, for students at study program: Pharmacy – Medical Biochemistry, University of Belgrade – Faculty of Pharmacy, Belgrade, 2018, ISBN 978–86–6273–052–7

Activities within the Faculty:

- Mentor for students of the study program in English enrolled in school: 2018/2019. and 2021/2022
- Member of the working groups: For scientific research and international cooperation (2018), Improving the work of the Central Chemical Laboratory (2019), Meeting of the Working Group for the rationalization of infrastructure for practical teaching (2021)
- Member of the Commission for Monitoring and Improving the Quality of Teaching (2016)
- Member of the Commission for conducting the enrollment of first-year students of the Integrated Academic Studies of the University of Belgrade - Faculty of Pharmacy, school year 2018/2019.

Activities within wider Academic Community:

- Co-author of Equipment Catalogue, Faculty of Pharmacy University of Belgrade (2013) (reedition 2020.)
- Oral presentation "ZnO/Carbon from biopolymer crosslinking as a supercapacitor material " at 4th International Meeting on Materials Science for Energy Related

Applications, University of Belgrade - Faculty of Physical Chemistry, 22-23 September 2021, Belgrade, Serbia.

- Member of the expert commission for the defense of scientific research papers of students at the 60th Congress of Students of Biomedical Sciences of Serbia with international participation. Kopaonik, April 21 - 25, 2018
- Invited reviewer for the papers of *International Conference on Fundamental and Applied Aspects of Physical Chemistry, Belgrade, Serbia*
- Invited reviewer in the numerous international journals (2005 –2021): *Materials Latters, Chemical Papers, Journal of Serbian Chemical Society, Polymers, Arhiv za farmaciju*
  Member of the Serbian Chemical Society
- Member of the Society of Physical Chemists of Serbia

Projects:

- 2021 – 2023: Scientific research project - The Program IDEAS „ Advanced Conducting Polymer-Based Materials for Electrochemical Energy Conversion and Storage, Sensors and Environmental Protection (AdConPolyMat)“ (project manager prof. dr. Gordana Ćirić-Marjanović, University of Belgrade – Faculty of Phisical Chemistry, grant number 7750219), Science Fund of the Republic of Serbia
- Member of the research team of the Faculty of Pharmacy, research topic: Synthesis and characterization of polymeric materials and composites based on heteropoly compounds with the aim of their application in electroconversion, pharmacy and reactions of importance for environmental protection (project manager dr Aleksandra Janošević Ležaić assoc. prof., University of Belgrade – Faculty of Pharmacy, (since 2020)
- 2011 – 2019: Researcher on the project "Electroconducting and redox-active polymers and oligomers: Synthesis, structure, properties and applications", Grant No. OI 172043, Ministry of Education, Science and Technological Development of Republic of Serbia.
- 2014 – 2015: Researcher on the project “New materials and devices on the base of conducting polymers and composites”, Grant no. 01DS13013, German Federal Ministry of Education and Research.
- 2014 – 2017: Researcher on the project "Conducting polymers synthesized by enzymatic polymerization", Project No. IZ73ZO_152457, SCOPES (Scientific Cooperation between Eastern Europe and Switzerland)
- 2010–2014: COST Action MP1003 “European Scientific Network for Artificial Muscles
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Selected publications:

1. Janicijevic D., Jevremović A., Janošević Ležaić A. Nedić-Vasiljević B., Uskoković-Marković S., Bajuk-Bogdanović D., Milojević-Rakić M.: Comparative assessment of pesticide adsorption capacity and antioxidant activity of Silver Dodecatungstophosphate/HBEA zeolite composites. J. Environ. Chem. Eng. 2021; 9(6) 106341
   DOI10.1016/j.jece.2021.106341. ISSN: 2213-2929

2. Gledovic A, Janosevic Lezaic A, Nikolic I, Tasic-Kostov M, Antic-Stankovic J, Krstonosic V, Randjelovic D, Bozic D, Ilic D, Tamburic S, Savic S.: Polyglycerol ester-based low energy nanoemulsions with red raspberry seed oil and fruit extracts: Formulation development toward effective in vitro/in vivo bioperformance. Nanomaterials. 2021; 11(1): 217.
DOI10.3390/nano11010217. ISSN: 2079-4991
3. Pašti I, Janošević Ležaić A., Gavrilov N., Ćirić- Marjanović G., Mentus S.: Nanocarbons derived from polymers for electrochemical energy conversion and storage. Synth. Met. 2018; 246: 267-281.
DOI10.1016/j.synthmet.2018.11.003 ISSN: 0379-6779
4. Janošević V., Mitrić M., Janošević Ležaić A., Validžić Lj. I.: Weak Light Performance of Synthesized Amorphous Sb2S3-Based Hybrid Solar Cell, IEEE J. Photovolt. 2016; 6 (2) 473–479.
DOI10.1109/JPHOTOV.2015.2501731
5. Janošević Ležaić A., Bajuk-Bogdanović D., Radoičić M., M. Mirsky V., Ćirić-Marjanović G.: Influence of synthetic conditions on the structure and electrical properties of nanofibrous polyanilines and their nanofibrous carbonized forms, Synth. Met. 2016; 214: 35-44.
DOI10.1016/j.synthmet.2016.01.015. ISSN: 0379-6779
6. Luginbühl S., Bajuk-Bogdanović D., Pašti I., Kissner R., Rakvin B., Walde P., Ćirić-Marjanović G.: Insight into the template effect of vesicles on the laccase-catalyzed oligomerization of N-phenyl-1,4-phenylenediamine from Raman spectroscopy and cyclic voltammetry measurements, Sci. Rep. 2016; 6:30724.
DOI10.1038/srep30724. ISSN: 2045-2322
7. Janošević A., Krstić J., Pašti I., Gavrilov N., Mentus S., Ćirić-Marjanović G.: Microporous conducting carbonized polyaniline nanorods: Synthesis, characterization and electrocatalytic properties, Micropor. Mesopor. Mat, 2012; 152: 50–57.
DOI10.1016/j.micromeso.2011.12.002. ISSN: 1387-1811
8. Janošević A., Ćirić-Marjanović G., Marjanović B., Trchová M., Stejskal J.: 3,5-Dinitrosalicylic acid-assisted synthesis of self-assembled polyaniline nanorods. Mater. Lett. 2010; 64: 2337–2340.
DOI10.1016/j.matlet.2010.07.041. ISSN: 1873-4979
9. Janošević A., Pašti I., Gavrilov N., Mentus S., Ćirić-Marjanović G., Krstić J., Stejskal J.: Micro/mesoporous conducting carbonized polyaniline 5-sulfosalicylate nanorods/nanotubes: Synthesis, characterization and electrocatalysis. Synthe. Met. 2011; 161: 2179–2184.
DOI10.1016/j.synthmet.2011.08.028. ISSN: 0379-6779
10. Janošević A., Ćirić-Marjanović G., Marjanović B., Holler P., Trchová M., Stejskal J.: Synthesis and characterization of self-assembled conducting polyaniline 5-sulfosalicylate nanotubes and nanorods. Nanotechnology 2008; 19: 135606
DOI10.1088/0957-4484/19/13/135606. ISSN: 0957-4484