



Milica Matijević

Research Assistant

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Education

PhD candidate from 2015

The Faculty of Sciences and Mathematics, University of Niš, Chemistry Science

Working PhD title - Investigations of the interaction of photo-sensitive nanocomposite system based on undoped and doped titanium oxide nanoparticles with biomolecules and cells.

Average grades 10,0 (writing of PhD theses is in progress)

MSc of Biotechnology and Biochemistr

The Faculty of Technology and Metallurgy, University of Belgrade, Department for Biochemical Engineering and Biotechnology

Title of the final paper was "Simultaneous determination of concentrations levels of the micro and macro nutrients in sea mussels by Energy Dispersive X-Ray Fluorescence Spectrometry" and was defended with the grade 10, whereas the average of other grades were 8,17.

Employment History

Research Assistant

Institute of Nuclear Sciences Vinča, Department of Atomics Physics, July 2018 – present

Junior Researcher

Institute of Nuclear Sciences Vinča, Department of Physical Chemistry, February 2015 – June 2018.

International scientific collaboration and mobility

2018-2019. Bilateral project with the Republic of China, entitled "TiO₂ nanoparticles doped with nitrogen and carbon as light-controlled delivery systems for cancer drugs based on metal complexes", within which a two-week stay at the University of Fudan, Shanghai, China (June 2018)

2017-2018. The multilateral project led by MPNTR Srbije, Danube meets Omics - Danomics, DS 052.

The project organized two-week stays with training and experiments in Bratislava, Slovakia (November 2017) and Prague, Czech Republic (July and November 2018).

Participation in project administration

2019 Secretary of the Photonica2019 – The Seventh International School and Conference on Photonics, 26 August – 30 August 2019, Belgrade, Serbia.

Introduction of young people into scientific research

2015-2019 Participating in the activities of "Vinča Naučionica" and "Open Day of the Vinča Institute", as specific programs that promote the education of young people and scientific work.

List of publications

Articles in international scientific journals

Matijević, M., Nakarada, Đ., Liang, X. et al. Biocompatibility of TiO₂ prolate nanospheroids as a potential photosensitizer in therapy of cancer. *J Nanopart Res* 22, 175 (2020).

<https://doi.org/10.1007/s11051-020-04899-3>

IF 2.132 (2019)

Matijević, M., Stanković M., Krstić N., Nikolić M., Kostić D., Application of oxidation processes in the purification of wastewaters from phenolic compounds, *Revue Roumaine de Chimie* 65, 4 (2020) 313-327.

<https://doi.org/10.33224/rch.2020.65.4.01>

IF 0,381 (2019)

Matijević, M., Nešić, M., Stepić, M. et al. Light controllable TiO₂-Ru nanocomposite system encapsulated in phospholipid unilamellar vesicles for anti-cancer photodynamic therapy. *Opt Quant Electron* 50, 232 (2018).

<https://doi.org/10.1007/s11082-018-1495-z>,

IF 1.605

Articles in international scientific conferences

Matijević M., Petković M., Stepić M., Nešić M, Blue light-enhanced cytotoxic activity of nitrogen doped TiO₂ nanoparticles in human cervical cancer cells, 28th Young Research Fellow Meeting, (2021)

http://www.sct-asso.fr/wa_files/YRFM2021_20Book.pdf

Matijević, M., Cindrić, M., Petković, M., Nišavić M. Structural characterization of transferrin bound ruthenium(II) terpyridine complexes. *FEBS Open Bio*, 8: 18-062. (2018)

<https://doi.org/10.1002/2211-5463.12453>

IF 2.231

Matijević M, Nešić M, Popović I, Stepić M, Radoičić M, Šaponjić Z, Petković M, Light controllable TiO₂-Ru nanocomposite system encapsulated in small unilamellar vesicles for anti-cancer photodynamic therapy, *Book of abstracts PHOTONICA 2017 The Sixth International School and Conference on Photonics*, (2017) 111 - 111. 978-86-82441-46-5

Matijević M., Stoiljković M., Momčilović M., Savović J., Ciganović J., Kuzmanović M, Laser-Induced Breakdown Spectroscopy at a Solid-Aqueous Aerosol Interface, *Contributed papers & abstracts of invited lectures, topical invited lectures, progress reports and workshop lectures, 28th Summer School and International Symposium on the physics of the ionized gases*, (2016) 348 - 351, 978-86-84539-14-6

<http://www.spig2016.ipb.ac.rs/spig2016-book-online.pdf>

Editing book of abstracts

Editor of *Photonica2019 Conference Proceedings*, ISBN 978-86-7306-153-5

http://www.photonica.ac.rs/docs/PHOTONICA2019-Book_of_abstracts.pdf