

Dr. Miodrag J. Lukic

Participant

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Institute of Technical Sciences of the Serbian Academy of Sciences and Arts

Knez Mihailova 35/IV, P.O.BOX 377 Belgrade

Contact person: Academician prof. dr Zoran Đurić, Director of the Institute

BIOGRAPHY

Personal information

Date and place of birth: 17/01/1984, Sarajevo, Bosnia & Herzegovina

Age: 36

Citizenship: Serbian

Research field and area/areas

Non-classical nucleation, Al, Fe, Ca chemistry, synthesis of nanomaterials, nanoceramics, sintering, materials characterization, metal-organic frameworks, double-hydroxides

Education

Ph.D. in physical chemistry (2009-2014) – Faculty of Physical Chemistry, University of Belgrade

Title of thesis: “*Two-step sintering, phase transformations, electrical and mechanical properties of nanostructured bioceramic materials based on hydroxyapatite.*”

Corresponding fields: Physical chemistry of materials, bioceramic materials

Ph.D. thesis supervisors: Prof. Dr. Ljiljana Damjanovic-Vasilic, full professor, Faculty of Physical Chemistry, University of Belgrade; Dr. Smilja Markovic, principal research fellow, Institute of Technical Sciences of SASA, Prof. Dr. D. Uskokovic (ret.) Institute of Technical Sciences of SASA

Average grade: 9.71 (out of 10)

Diploma in physical chemistry – equivalent to MSc (2002-2009) – Faculty of Physical Chemistry, University of Belgrade

Title of thesis: “*Electrochemical determination of the properties of protective organic coatings*”

Corresponding fields: Electrochemistry, electrode impedance spectroscopy, organic coatings

Average grade: 9.03 (out of 10)

Teaching experience

2020 - *Grundlagen der Materialanalytik*, Master of Science course, Leibniz University Hannover, Germany

2020 – *Analytische Chemie I, II*, Bachelor of Science- practical course, Leibniz University Hannover, Germany

Dates of appointments

Nov 2015-Present – Research associate

May 2011-Nov 2015 – Research assistant

Apr 2009-May 2011 – Research trainee

Employment history

July 2019 – September 2020 Leibniz University Hanover, Germany, **postdoctoral scientist**

Dec 2017 - Dec 2018 University of Konstanz, **postdoctoral scientist**

Apr 2009-November 2017 – Institute of Technical Sciences of SASA, Belgrade, Serbia

List of selected publications

1. **M. J. Lukić**, E. Wiedenback, H. Reiner, D. Gebauer, Chemical trigger toward phase separation in the aqueous Al (III) system revealed, *Science Advances*, **6**: eaba6878, 2020. DOI: 10.1126/sciadv.aba6878
[Impact factor and category](#): 13.116, M21a (2020)
2. **M. J. Lukić**, A. Rose, D. Gebauer, Non-classical Nucleation towards Separation and Recycling Science: Iron and Aluminium (Oxy)(hydr)oxides, *Current Opinion in Colloid & Interface Science*, **46** (2020), 114-127
doi.org/10.1016/j.cocis.2020.03.010
[Impact factor and category](#): 6.79 M21 (2020)
3. **M. J. Lukić**, M. Kuzmanović, M. Sezen, F. Bakan, A. Egelja, L. Veselinović, *Inert atmosphere processing of hydroxyapatite in the presence of lithium iron phosphate*. Journal of the European Ceramic Society **38** (2018): 2120-2133. doi.org/10.1016/j.jeurceramsoc.2017.12.023
[Impact factor and category](#): 4.029, M21a (2018)
4. **M. J. Lukić**, S. D. Škapin, S. Marković, D. Uskoković, *Processing route to fully dense nanostructured HAp bioceramics: from powder synthesis to sintering*, Journal of the American Ceramic Society **95** (2012): 3394-3402.
https://doi.org/10.1111/j.1551-2916.2012.05376.x
[Impact factor and category](#): 2.107, M21a (2012)
5. **M. Lukić**, Z. Stojanović, S.D. Škapin, M. Maček-Kržmanc, M. Mitrić, S. Marković, D. Uskoković, Dense fine-grained biphasic calcium phosphate (BCP) bioceramics designed by two-step sintering, Journal of the European Ceramic Society, **31** (2011), 19-27. doi.org/10.1016/j.jeurceramsoc.2010.09.006
[Impact factor and category](#): 2.575, M21a (2011)

Citation number (excluding self-citations)

SCOPUS: 205

Hirsch index

SCOPUS: 6

Project history

- 2011-2019 – national project no. III45004 “Molecular designing of nanoparticles with controlled morphological and physicochemical characteristics and functional materials based on them” The Ministry of Education, Science and Technological Development of the Republic of Serbia
- 2012-2013; 2016-2017 bilateral projects between Republic of Serbia and Republic of Slovenia
- 2014-2015 bilateral projects between the Republic of Serbia and the Federal Republic of Germany

Awards, prizes

- 2017 – DAAD scholarship for the postdoctoral research project
- 2017 – The best oral presentation at Advanced Ceramics and Application VI conference, Belgrade, Serbia, September 18-20, Serbian Ceramic Society
- 2012 – The best poster presentation at the 14th Annual Conference Yucomat 2012, Herceg Novi, Montenegro, September 3-7, 2012, Materials Research Society of Serbia
- 2010 – The best oral presentations at “Ninth young researchers conference material science and engineering”, Belgrade, Serbia, December 20–22, 2010, Materials Research Society of Serbia
- 2007 – European Movement in Serbia award for 300 best students in Serbia

Reviewing scientific journals and grants

Environmental Science & Technology, Scientific Reports, Journal of Materials Research and Technology, Colloids & Surfaces B: Biointerphases, Ceramics International, Journal of the American Ceramic Society, Ionics, Biomedical Engineering Online, Science of Sintering; Tehnika-New Materials, Chemical Industry & Chemical Engineering Quarterly; SN Applied Science. Dutch Science Foundation, Russian Science Foundation

International scientific collaboration and mobility

International scientific collaboration with:

Sabancı University, Nanotechnology Research and Application Center, Istanbul, Turkey
University of Konstanz, Konstanz, Germany
Leibniz University Hannover, Hannover, Germany

Mobility:

Nov 2012 Jozef Stefan Institute, Ljubljana, Slovenia

Sept 2014 Sabanci University Nanotechnology Research and Application Center (SUNUM), Istanbul, Turkey

Nov 2014 Fridrich Alexander University, Erlangen, Nuremberg, Germany

Feb 2015 Sabanci University Nanotechnology Research and Application Center (SUNUM), Istanbul, Turkey

Nov 2015 Fridrich Alexander University, Erlangen, Nuremberg, Germany

Sep 2016 National Institute for Biology, Ljubljana, Slovenia

Nov 2017 University of Konstanz, Konstanz, Germany

July 2019 Leibniz University Hannover, Hannover, Germany

Skills and other facts relevant to the Project

UV-Vis spectrometry, FTIR, DSC, Thermo-gravimetry/Differential thermal analysis coupled with mass spectrometry, XRD, Dilatometry, Sintering, Heating microscopy, SEM, TEM, Particle size analysis, Zeta Sizer, Numerous synthesis methods, Electrode impedance spectroscopy, Mechanical testing, Advanced titration assays, Analytical ultracentrifugation;

Link to the database of researcher

ORCID: <http://orcid.org/0000-0002-4981-9776>

Google Scholar: <https://scholar.google.com/citations?user=MICb2kYAAAAJ>