PERSONAL INFORMATION

Name	DAKOVIĆ MARKO
Address	STUDENTSKI TRG 12-16, BELGRADE, SERBIA
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Date of birth	12.07. 1973.

WORK EXPERIENCE

• Dates (from – to)	09.1998 – 10. 2002.
• Name and address of employer	Vinca Institute of Nuclear Sciences
• Type of business or sector	Laboratory of Physics
• Occupation or position held	Junior researcher
• Main activities and responsibilities	Investigation of production routes of isotopes for alpha targeted therapy

• Dates (from – to)	09.2002 – 12. 2009.
• Name and address of employer	University of Belgrade
• Type of business or sector	Faculty of Physical Chemistry
• Occupation or position held	Teaching assistant
• Main activities and responsibilities	Teaching assistant at courses Biophysical Chemistry, General Physical Chemistry, Radiochemistry and Nuclear Chemistry, Chemical Thermodynamics

• Dates (from – to)	01.2010. – 06. 2013.
• Name and address of employer	University of Belgrade
• Type of business or sector	Faculty of Physical Chemistry
• Occupation or position held	researcher
• Main activities and responsibilities	Research in field of application of magnetic resonance imaging in diagnostics of diseases of central nervous system

• Dates (from – to)	07.2007. – 08. 2013.

• Name and address of employer	Clinical Center of Serbia
• Type of business or sector	Center for Radiology and Magnetic Resonance
• Occupation or position held	Consulting
• Main activities and responsibilities	Application of MR spectroscopy, diffusion tensor imaging and functional magnetic resonance in preoperative diagnostics of brain tumors
• Dates (from – to)	07.2013. – 01. 2020.
• Name and address of employer	University of Belgrade
• Type of business or sector	Faculty of Physical Chemistry
• Occupation or position held	Assistant professor
• Main activities and responsibilities	Assistant professor at courses of Radiochemistry and Nuclear Chemistry, Nuclear Spectrometry, Radiobiology, Applications of Physical Chemistry in Biology and Medicine
• Dates (from – to)	01. 2020. -
• Name and address of employer	University of Belgrade
• Type of business or sector	Faculty of Physical Chemistry
• Occupation or position held	Associate professor
• Main activities and responsibilities	Associate professor at courses of Radiochemistry and Nuclear Chemistry, Nuclear Spectrometry, Radiobiology, Applications of Physical Chemistry in Biology and Medicine

EDUCATION

• Name and type of organization providing education and training	Faculty of Physical Chemistry
Degree	Bsc in Physical chemistry
Year	1998
• Level in national classification	VI

• Name and type of organization providing education and training	Faculty of Physical Chemistry
Degree	Msc in Physical chemistry
Year	2002
• Level in national classification	VII_2

• Name and type of organization providing education and training	Faculty of Physical Chemistry
Degree	PhD in Physical chemistry
Year	2009
• Level in national classification	VIII

AREAS OF RESEARCH

1 Application of advanced methods of magnetic resonance in diagnostics of brain diseases
2 Interaction of ionizing radiation with biological systems
3 Application of Raman spectroscopy in diagnostics of neurodegenerative diseases

PARTICIPATION IN NATIONAL SCIENTIFIC PROJECTS

Duration	Project title
2002-2005	Physical chemistry of dynamical states and structures of nonequilibrium systems -seforganization, multistability и oscillatory behaviour
2006-2010	Biophysical investigations of membrane processes: interaction of membrane receptors and channels with external factors and inter-cellular regulation.
2011-present	Biomarkers in neurodegenerative and malignant processes

PUBLICATIONS

Research articles in ISI journals:

1. Beyer, G. J., J. J. Čomor, M. Daković, D. Soloviev, C. Tamburella, E. Hagebø, B. Allan, S. N. Dmitriev, and N. G. Zaitseva. "Production Routes of the Alpha Emitting 149 Tb for Medical Application." Radiochimica Acta 90, no. 5_2002 (2002): 247–52. **M21(2003)**
2. Čomor, J. J., M. Daković, M. Rajčević, Đ. Košutić, M. Spasić, A. Vidović, J. Đuričić, and

N. Nedeljković. “Solid Targetry at the TESLA Accelerator Installation.” Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 480, no. 1 (2002): 7–15. **M21(2002)**

3. Daković, Marko, Maja Kovačević, Pavle R. Andjus, and Goran Bačić. “On the Mechanism of Uranium Binding to Cell Wall of Chara Fragilis.” European Biophysics Journal 37, no. 7 (2008): 1111–17. **M22(2008)**
4. Dakovic, Marko, Milos Mojovic, and Goran Bacic. “EPR Study of the Production of OH Radicals in Aqueous Solutions of Uranium Irradiated by Ultraviolet Light.” Journal of the Serbian Chemical Society 74, no. 6 (2009): 651–61. **M23(2009)**
5. Mojović, Miloš, Marko Daković, Predrag Banković, and Zorica Mojović. “Paramagnetic Pillared Bentonites — The New Digestive Tract MRI Contrast Agents.” Applied Clay Science 48, no. 1–2 (March 2010): 191–94. **M21(2010)**
6. Mojović, Miloš, Marko Daković, Mia Omerašević, Zorica Mojović, Predrag Banković, Aleksandra Milutinović-Nikolić, and Dušan Jovanović. “THE PARAMAGNETIC PILLARED BENTONITES AS DIGESTIVE TRACT MRI CONTRAST AGENTS.” International Journal of Modern Physics B 24, no. 06/n07 (2010): 780–87. **M23(2010)**
7. Lavrnic, Dragana, Marko Dakovic, Stojan Peric, Vidosava Rakocevic-Stojanovic, Ivana Basta, Ivan Marjanovic, Tatjana Stosic-Opincal, and Slobodan Lavrnic. “Proton Magnetic Resonance Spectroscopy of the Intrinsic Tongue Muscles in Patients with Myasthenia Gravis with Different Autoantibodies.” Journal of the Neurological Sciences 302, no. 1–2 (2011): 25–28. **M22(2011)**
8. Šećerov, B., M. Daković, N. Borojević, and G. Bačić. “Dosimetry Using HS GafChromic Films the Influence of Readout Light on Sensitivity of Dosimetry.” Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 633, no. 1 (2011): 66–71. **M21(2010)**
9. Kovač, Jelena Djokić, Marko Daković, Dejana Stanisavljević, Tamara Alempijević, Rada Ješić, Petar Seferović, and Ružica Maksimović. “Diffusion-Weighted MRI versus Transient Elastography in Quantification of Liver Fibrosis in Patients with Chronic Cholestatic Liver Diseases.” European Journal of Radiology 81, no. 10 (October 2012): 2500–2506. **M21(2011)**
10. Daković, Marko, Aleksandra S. Stojiljković, Danica Bajuk-Bogdanović, Ana Starčević, Laslo Puškaš, Branislav Filipović, Snežana Uskoković-Marković, and Ivanka Holclajtner-Antunović. “Profiling Differences in Chemical Composition of Brain Structures Using Raman Spectroscopy.” Talanta 117 (December 2013): 133–38. **M21(2013)**
11. Ignjatović, Aleksandar, Zorica Stević, Slobodan Lavrnić, Marko Daković, and Goran Bačić. “Brain Iron MRI: A Biomarker for Amyotrophic Lateral Sclerosis: Brain Iron MRI: A Biomarker for ALS.” Journal of Magnetic Resonance Imaging 38, no. 6 (April 2013): 1472–79. **M21(2013)**
12. A. Samolov, S. Dragović, M. Daković, G. Bačić, Analysis of 7 Be behaviour in the air by using a multilayer perceptron neural network, J. Environ. Radioactiv. (2014) 137:198-203. **M21(2013)**
13. Samolov, A.D., Dragović, S.D., Daković, M.Ž., Bačić, G.G., Neural networks in analysing 137Cs behaviour in the air in the Belgrade area. Nuclear Technology and Radiation Protection, (2014) 29, 226–232. **M23(2014)**
14. Nikolić, A.V., Bačić, G.G., Daković, M.Ž., Lavrnić, S.Đ., Stojanović, V.M.R., Basta, I.Z., Lavrnić, D.V., Myopathy, muscle atrophy and tongue lipid composition in MuSK myasthenia gravis. Acta Neurol Belg (2015) 115(3):361-5. **M23(2015)**
15. Ristić, A.J., Daković, M., Kerr, M., Kovačević, M., Parojčić, A., Sokić, D., Cortical thickness, surface area and folding in patients with psychogenic nonepileptic seizures. Epilepsy research, (2015) 112, 84–91. **M22(2015)**

16. Sarap, N.B., Rajačić, M.M., DJalović, I.G., Šeremešić, S. jan I., DJordjević, A.R., Janković, M.M., Daković, M.Z., Distribution of natural and artificial radionuclides in chernozem soil/ crop system from stationary experiments. Environmental Science and Pollution Research, (2016) 23, 17761–17773. **M21(2015)**
17. Tanić Milan N., B.G.G., Janković-Mandić Ljiljana J.,Gajić Boško A., Daković Marko Z., Dragović Snežana D., NATURAL RADIONUCLIDES IN SOIL PROFILES SURROUNDING THE LARGEST COAL-FIRED POWER PLANT IN SERBIA. Nuclear Technology and Radiation Protection, (2016) 31, 247–259. **M23(2016)**
18. Jovanovic, M., Selmic, M., Macura, D., Lavrnic, S., Gavrilovic, S., Dakovic, M., Radenkovic, S., Soldatovic, I., Stosic-Opincal, T., Maksimovic, R., Structural and Metabolic Pattern Classification for Detection of Glioblastoma Recurrence and Treatment-Related Effects. Applied Magnetic Resonance, (2017) 48, 921–931. **M23(2017)**
19. Tanić, M.N., Ćujić, M.R., Gajić, B.A., Daković, M.Z., Dragović, S.D., Content of the potentially harmful elements in soil around the major coal-fired power plant in Serbia: relation to soil characteristics, evaluation of spatial distribution and source apportionment. Environmental Earth Sciences, (2018) 77:28, https://doi.org/10.1007/s12665-017-7214-4 **M22(2018)**
20. Pavićević, A., Lakočević, M., Popović, M., et al. . Changes of the peripheral blood mononuclear cells membrane fluidity from type 1 Gaucher disease patients: an electron paramagnetic resonance study. Biological Chemistry, (2018) https://doi.org/10.1515/hsz-2017-0241 **M22(2018)**
21. Petrusic, I., Dakovic, M., Kacar, K. & Zidverc-Trajkovic, J. Migraine with Aura: Surface-Based Analysis of the Cerebral Cortex with Magnetic Resonance Imaging. Korean Journal of Radiology 19, 767 (2018). **M21(2018)**
22. Vlasta Mohaček-Grošev, Hrvoje Gebavi, Alois Bonifacio, Valter Sergo, Marko Daković, Danica Bajuk-Bogdanović, Binding of p-mercaptobenzoic acid and adenine to gold-coated electroless etched silicon nanowires studied by surface-enhanced Raman scattering, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Volume 200, 5 July 2018, Pages 102-109, ISSN 1386-1425, https://doi.org/10.1016/j.saa.2018.04.016. **M21(2018)**
23. Petrušić, I., Daković, M., Kačar, K., Mićić, O. & Zidverc-Trajković, J. Migraine with aura and white matter tract changes. Acta Neurol Belg 118, 485–491 (2018). **M23(2018)**
24. Petrusic I, Viana M, Dakovic M, J Goadsby P, Zidverc-Trajkovic J. Proposal for a Migraine Aura Complexity Score. Cephalalgia. (2018) https://doi.org/10.1177/0333102418815487. **M21(2018)**
25. Mihailović, Jelena, Daković,Marko, Advanced magnetic resonance techniques in early differentiation of pseudo-progression vs. progression in patients with glioblastoma multiforme. Vojnosanitetski pregl. 2019; 76(5): 510–517. https://doi.org/10.2298/VSP170114108M **M23 (2019)**
26. Mihailović, Jelena, Grujičić,Danica, Lavrnić,Slobodan, Daković,Marko, The application of local histograms of apparent difusion coefficient in differentiation of brain astrocytomas. Vojnosanitetski pregl. 2019; 76(4): 385–391. https://doi.org/10.2298/VSP161215103M **M23 (2019)**
27. Petrusic I, Dakovic M, Zidverc-Trajkovic J. Volume alterations of brainstem subregions in migraine with aura. NeuroImage: Clinical. (2019) https://doi.org/10.1016/ j.nicl.2019.101714 **M21(2018)**
28. Petrusic I, Dakovic M, Zidverc-Trajkovic J. Subcortical Volume Changes in Migraine with Aura. J Clin Neurol. 2019 Jan;15:e34. https://doi.org/10.3988/jcn.2019.15.4.448 **M22(2018)**
29. Petrusic Igor, Viana Michele, Dakovic Marko, Zidverc-Trajkovic Jasna, Application of the

Migraine Aura Complexity Score (MACS): Clinical and Neuroimaging Study, Frontiers in Neurology, (2019) 10:1112 https://doi.org/10.3389/fneur.2019.01112.

30. Starcevic Ana, Dakovic Marko, Radojicic Z, Filipovic Branislav, A structural magnetic resonance imaging study in therapy-naïve transsexual individuals, Folia Morphologica (2021), 80(2), 442-447. https://doi.org/10.5603/FM.a2020.0073 **M23 (2020)**
31. Kovač Djokić Jelena, Daković Marko, Janković Aleksandra, Mitrović Milica, Dugalić Vladimir, Galun Daniel, Đurić-Stefanović Aleksandra, Mašulović Dragan, The role of quantitative diffusion-weighted imaging in characterization of hypovascular liver lesions: A prospective comparison of intravoxel incoherent motion derived parameters and apparent diffusion coefficient, PloS One, (2021) 16(2), e0247301, https://doi.org/10.1371/journal.pone.0247301. **M21 (2019)**
32. Dušica M Kočović, Danica Bajuk-Bogdanović, Ilinka Pećinar, Biljana Božić Nedeljković, Marko Daković, Pavle R Andjus, Assessment of cellular and molecular changes in the rat brain after gamma radiation and radioprotection by anisomycin, Journal of radiation research (2021) 62(5), 793-803, https://doi.org/10.1093/jrr/rrab045. **M22(2020)**
33. Kočović M Dušica, Bajuk-Bogdanović Danica, Maslovarić Irina, Božić-Nedeljković Biljana, Anđus Pavle R, Daković Marko, Raman spectral analysis of the brainstem and responses of neuroglia and cytokines in whole-body gamma-irradiated rats after administration of aminothiol-based radioprotector GL2011, Archives of Biological Sciences, (2021) 73(2) 161-173, https://doi.org/10.2298/ABS210129011K **M23(2020)**