

PERSONAL INFORMATION

Name DAKOVIĆ MARKO
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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. – present
- 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

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 -selforganization, 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. M. Daković, J.J. Čomor, "Optimization of ²⁰¹Tl Production Parameters Regarding its Routine Production at the TESLA Accelerator Installation", Nuclear Technology, 13 (1998) 33-38.

2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. Lavrnjic, Dragana, Marko Dakovic, Stojan Peric, Vidosava Rakocevic-Stojanovic, Ivana Basta, Ivan Marjanovic, Tatjana Stosic-Opincal, and Slobodan Lavrnjic. "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.
9. 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.
10. 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.
11. 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.
12. 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.

13. A. Samolov, S. Dragović, M. Daković, G. Bačić, *Analysis of ⁷Be behaviour in the air by using a multilayer perceptron neural network*, *J. Environ. Radioactiv.* (2014) 137:198-203
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.
19. Mihailović, Jelena, Daković, Marko, Advanced magnetic resonance techniques in early differentiation of pseudo-progression vs. progression in patients with glioblastoma multiforme. *Vojnosanitetski pregled*, (2017) <https://doi.org/10.2298/VSP170114108M>
20. Mihailović, Jelena, Grujičić, Danica, Lavrnić, Slobodan, Daković, Marko, The application of local histograms of apparent diffusion coefficient in differentiation of brain astrocytomas. *Vojnosanitetski pregled*, (2017) <https://doi.org/10.2298/VSP161215103M>
21. 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.
22. Tanić, M.N., Čujić, 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>
23. 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>
24. Petrušić I. , Daković M., Kačar K., Zidverc-Trajković J., "Migraine with aura: surface-based analysis of cerebral cortex", *Korean Journal of Radiology*, *accepted manuscript*