Miloš Mojović

Full Professor, University of Belgrade – Faculty of Physical Chemistry

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PERSONAL INFORMATION

Address	Studentski trg 12-16, 11000 Belgrade, Serbia
Date of birth	20 January 1973
Place of birth	Belgrade, Serbia
Nationality	Serbian
Phone	+381 64 1128379
Email (work)	milos@ffh.bg.ac.rs
Email (personal)	mojovic@gmail.com
Personal website	https://milos.mojovic.com/
Laboratory	BioScope Labs – https://www.bioscope.ffh.bg.ac.rs/
Scopus – documents	112
Scopus – citations	2980
Scopus – h-index	29
Scopus – as of	2025
Mother tongue	Serbian
Other languages	English (C2), German (A2)
Computer skills	MS Office (Word, Excel, PowerPoint); Origin; MATLAB, C++, Java; Adobe Photoshop, Illustrator, After Effects; CorelDraw, Corel Photopaint; web design and development

BIOGRAPHY

Miloš Mojović was born on 20 January 1973 in Belgrade, Serbia, where he completed primary and grammar school. He graduated from the University of Belgrade – Faculty of Physical Chemistry on 30 March 2000 (GPA 9.19/10), defending the diploma thesis "Investigation of standards in EPR dosimetry" with the highest grade. He obtained his MSc degree in 2004 with the thesis "Characterization of free radicals in plant membranes using EPR spectroscopy" and his PhD in 2006 with the dissertation "Application of the EPR spin-trapping method for the detection of short-lived radical species in biological and chemical systems". He has been employed at the Faculty of Physical Chemistry since 2000, first as a teaching assistant, then as Assistant Professor (2007), Associate Professor (2014) and, since 2020, Full Professor. He heads BioScope Labs (Centre for Physical Chemistry of Biological Systems). His research covers biophysical chemistry, computational methods in physical chemistry and applications of physical chemistry in biomedicine.

RESEARCH INTERESTS

- **EPR Spectroscopy & Free Radical Detection** – Application of EPR spectroscopy and imaging techniques to investigate biosystems, with a focus on detecting and characterizing free radicals.

- **ROS Pathways & Cellular Stress Response** – Exploration of reactive oxygen species (ROS) pathways and cellular stress responses to uncover mechanisms of oxidative damage and defense.
- **Drug Delivery Systems** – Design and optimization of nanoscale drug delivery systems, including the development of novel carriers and the enhancement of existing platforms.
- **Biomarkers in Neurodegeneration and Cancer** – Identification and analysis of biomarkers associated with neurodegenerative and malignant diseases to support early diagnosis and targeted therapies.
- **Raman Spectroscopy of Biosystems** – Application of Raman spectroscopy to study the structural and functional properties of biological systems at the molecular level.
- **Bioelectrochemistry** – Development and application of electrochemical methods to investigate redox processes and interactions in biological environments.
- **Bioinformatics & Biophysical Modelling** – Use of bioinformatics tools and computational modeling to simulate biophysical processes and improve the predictive understanding of complex biological systems.

EDUCATION

2004 – 2006	**PhD in Physical Chemistry**, University of Belgrade – Faculty of Physical Chemistry (Biophysical chemistry) Thesis: "Application of the EPR spin-trapping method for the detection of short-lived radical species in biological and chemical systems"; Supervisor: Prof. Goran Bačić
2000 – 2004	**MSc (Magister) in Physical Chemistry**, University of Belgrade – Faculty of Physical Chemistry (Biophysical chemistry) Thesis: "Characterization of free radicals in plant membranes using EPR spectroscopy"
1992 – 2000	**BSc in Physical Chemistry**, University of Belgrade – Faculty of Physical Chemistry (Radiation dosimetry) Thesis: "Investigation of standards in EPR dosimetry"

EMPLOYMENT

2020 – present	**Full Professor**, University of Belgrade – Faculty of Physical Chemistry
2014 – 2020	**Associate Professor**, University of Belgrade – Faculty of Physical Chemistry
2007 – 2014	**Assistant Professor**, University of Belgrade – Faculty of Physical Chemistry
2007	**Visiting Professor**, University of Oxford, Department of Plant Sciences, United Kingdom
2000 – 2007	**Teaching Assistant**, University of Belgrade – Faculty of Physical Chemistry

MANAGEMENT AND LEADERSHIP

2025 – present	**Chair of the Program Council for Interdisciplinary Doctoral Studies – Biophysics**, University of Belgrade
2024 – present	**Head of the Department of Dynamics and Structure of Matter and Biophysical Chemistry**, University of Belgrade – Faculty of Physical Chemistry
2016 – present	**Vice-Dean for Public Relations, Organization and Quality**, University of Belgrade – Faculty of Physical Chemistry
2016 – present	**Member of the Program Council, Interdisciplinary Doctoral Studies – Biophysics**, University of Belgrade
2015 – present	**Head of BioScope Labs Consortium**, Centre for Physical Chemistry of Biological Systems, University of Belgrade – Faculty of Physical Chemistry

2016 – 2019	**Head of the Department of Radiochemistry and Nuclear Chemistry**, University of Belgrade – Faculty of Physical Chemistry
2015	**Member of the founding team of the Centre for Physical Chemistry of Biological Systems**, University of Belgrade – Faculty of Physical Chemistry

PROJECTS

2024 – present	**Role of macroautophagy in lipid nanoparticle mRNA delivery and adjuvanticity (REDIRECT)** National; Role: Participant
2023 – present	**Utilization of the food industry waste for improving honey bee health and protecting the environment (Waste2ProtectBees)** National; Role: Participant
2019 – 2023	**COST Action CA18206: Glioma MR Imaging 2.0 (GliMR 2.0)** COST Action, CA18206; Role: MC substitute
2020 – 2022	**SPINPROBES – EPR spin probes for early diagnosis of neurodegenerative diseases** Bilateral (Serbia–France), MPNTR / Campus France; Role: Principal Investigator (Serbian side); Leader: M. Mojović (SRB); Prof. Fabienne Peyrot, Université Paris Descartes (FR)
2020 – 2022	**Protein Hydrogel for Cancer Theranostics (PHYCAT)** National, Science Fund of the Republic of Serbia – PROMIS; Role: Senior participant
2019 – 2022	**Novel nano-sized, biocompatible and stable free radical sensors for continuous in vivo hyperpolarization at ultra-low field MRI (NanoHyperRadicals)** International, ERA.Net RUS Plus (Horizon 2020) – Science & Technology, RUS_ST2017-382; Role: Team member
2019 – 2020	**NADPH oxidases in the progression of obesity-induced forms of diabetes** Bilateral (Serbia–Germany), MPNTR / DAAD; Role: Principal Investigator (Serbian side); Leader: M. Mojović (SRB); Prof. Agnes Görlach, German Heart Center Munich (DE)
2019 – 2020	**Isolation and therapeutic potential of avarol in neurodegeneration models** Bilateral (Serbia–Montenegro); Role: Participant; Leader: Dr Branka Pestorić (Institute of Marine Biology, Kotor); Dr Pavle Anđus (Faculty of Biology, University of Belgrade)
2011 – 2020	**Biomarkers in neurodegenerative and malignant processes** National, Ministry of Education, Science and Technological Development of the Republic of Serbia, III41005; Role: Sub-project leader; Leader: Prof. Pavle Anđus, Faculty of Biology, University of Belgrade
2011 – 2020	**Modifications of plant antioxidative metabolism to increase tolerance to abiotic stress and identification of new biomarkers for remediation and monitoring of degraded habitats** National, Ministry of Education, Science and Technological Development of the Republic of Serbia, III43010; Role: Participant; Leader: Dr Sonja Veljović-Jovanović, Institute for Multidisciplinary Research, University of Belgrade
2015 – 2019	**COST Action CA15126: Between Atom and Cell – Integrating Molecular Biophysics Approaches for Biology and Healthcare (MOBIEU)** COST Action, CA15126; Role: Management Committee member for Serbia
2014 – 2018	**COST Action BM1401: Raman-based applications for clinical diagnostics (Raman4clinics)** COST Action, BM1401; Role: MC substitute
2012 – 2016	**COST Action BM1203: European Network on Oxidative Stress (EU-ROS)** COST Action, BM1203; Role: Management Committee member for Serbia

2006 – 2010 **Biophysical study of membrane processes: interaction of membrane receptors and channels with external factors and intracellular regulation**
National, Ministry of Science of the Republic of Serbia, 143016; Role: Participant; Leader: Dr Željko Vučinić, Institute for Multidisciplinary Research, University of Belgrade

2002 – 2006 **Spectroscopy of atoms, molecules and supramolecular structures**
National, Ministry of Science of the Republic of Serbia, 1928; Role: Participant; Leader: Dr Ankica Jovanović, Faculty of Physical Chemistry

PUBLICATIONS

M21a+ – Paper in a leading international journal (M21a+) (4)

1. Hierdeis, K; Bajuk-Bogdanović, D; Mechakra, A; Nakarada, Đ; Ružičić, A; Chalupský, K; Papanakli, L; Kerth, S; Zhang, Z; Steiger, K; Petry, A; Djordjević, J; **Mojović, M**; Görlach, A; Kračun, D, p22phox-dependent redox pathways contribute to placental oxidative injury and adverse embryonic outcomes following transient gestational hypoxia–reoxygenation, *Redox Biology* (2026) 104458. https://doi.org/10.1016/j.redox.2026.104458
2. Luka Petrović, Neda Popović, Miloš Todorović, Dragana Matekalo, Milica Milutinović, Đura Nakarada, Jelena Božunović, Jasmina Nestorović Zivković, Slavica Dmitrović, Branislav Šiler, Tijana Banjanac, Biljana Filipović, Uroš Gašić, **Miloš Mojović**, Danijela Mišić, Marijana Skorić, Metabolomic and transcriptomic responses to waterlogging stress and hydrogen peroxide elicitation: impact on the production of iridoids and phenolics in leaves of two Nepeta species, *Industrial Crops and Products* 235 (2025) 121762. https://doi.org/10.1016/j.indcrop.2025.121762 [IF(2024) = 6.2; 6/129 Agronomy]
3. Filis Morina, Andjela Kuvelja, Dennis Bruckner, **Miloš Mojović**, Djura Nakarada, Syed Nadeem Hussain Bokhari, Bojan Vujić, Gerald Falkenberg and Hendrik Kupper, How eriophyid mites shape metal metabolism in leaf galls on Tilia cordata, *New Phytologist* 246(5) (2025) 2222-2242. https://doi.org/10.1111/nph.70103
4. Đorđe Cvjetinović, Željko Prijović, Drina Janković, Magdalena Radović, Marija Mirković, Zorana Milanović, **Miloš Mojović**, Đani Skalamera, Sanja Vranješ-Đurić, Bioevaluation of glucose-modified liposomes as a potential drug delivery system for cancer treatment using 177-Lu radiotracking, *Journal of Controlled Release* 332 (2021) 301-311. https://doi.org/10.1016/j.jconrel.2021.03.006 [IF(2019) = 7.727; 10/271, Pharmacology & Pharmacy]

M21a – Paper in a leading international journal (M21a) (29)

1. Milan Popović, Đura Nakarada, Uroš Glavinić, Marko Ristanić, Jevrosima Stevanović, Zoran Stanimirović, **Miloš Mojović**, Grape Pomace Extract Restores Antioxidant Capacity in Nosema ceranae-Infected Honey Bees, *Insects* 17(11) (2026) 1161. https://doi.org/10.3390/insects17111161
2. Sara Calenda, Katarina Mihajlovic, Flavia Varano, Daniela Catarzi, Costanza Ceni, Elisa Marinari, Giulia Vagnoni, Marta Menicatti, Gian Luca Bartolucci, Diego Dal Ben, Rosaria Volpini, Katia Varani, Chiara Contri, Fabrizio Vincenzi, Ana Martinez, Loreto Martinez Gonzales, Milorad Dragic, **Miloš Mojović**, Đura Nakarada, Ivana Stevanović, Nadežda Nedeljković, Vittoria Colotta, Design, synthesis, and pharmacological evaluation of thiazolo[5,4-d]pyrimidines hybridized with lipoic acid or catechol. Novel A2A adenosine receptor antagonists in neuroinflammatory diseases, *Bioorganic Chemistry* 180 (2026) 110166. https://doi.org/10.1016/j.bioorg.2026.110166
3. Tijana Milivojević, Maja Ranković, Nemanja Gavrilov, Anka Jevremović, Aleksandra Janošević Ležaić, Đura Nakarada, **Miloš Mojović**, Bojana Nedić Vasiljević, Danica Bajuk-Bogdanović, Maja Milojević-Rakić, Exploration of PFAS degradation over lower titanium suboxides: Ti6O11 case, *Journal of Hazardous Materials* 515 (2026) 143269. https://doi.org/10.1016/j.jhazmat.2026.143269

4. Đ. Nakarada, U. Glavinić, M. Ristanić, M. Popović, J. Stevanović, Z. Stanimirović, **M. Mojović**, Bridging the buzz: In vivo EPR imaging unlocking the secrets of honey bee health, *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 341(8) (2024) 880-884. https://doi.org/10.1002/jez.2845
5. Jelena Savić, Đura Nakarada, Sofija Stupar, Ljiljana Tubić, Milica Milutinović, **Miloš Mojović** and Nina Devrnja, Glutathione Involvement in Potato Response to French Marigold Volatile Organic Compounds, *Antioxidants* 13(12) (2024) 1565. https://doi.org/10.3390/antiox13121565
6. Milica Milutinovic, Đura Nakarada, Jelena Božunovic, Miloš Todorovic, Uroš Gašic, Suzana Živkovic, Marijana Skoric, Đurda Ivkovic, Jelena Savic, Nina Devrnja, Neda Anicic, Tijana Banjanac, Miloš Mojovic and Danijela Mišic, Solanum dulcamara L. Berries: A Convenient Model System to Study Redox Processes in Relation to Fruit Ripening, *Antioxidants* 12(2) (2023) 346. https://doi.org/10.3390/antiox12020346
7. Bojana Božilovic, Bogdan Nikolic, Hadi Waisi, Jelena Trifkovic, Vladimir Dodevski, Bojan Jankovic, Sanja Krstic and Miloš Mojovic, Influence of 24-Epibrassinolide on the Energetic Parameters and Early Stages of Growth and Development in Seedlings of Two Maize (Zea mays L.) Genotypes, *Agronomy* 13(7) (2023) 1673. https://doi.org/10.3390/agronomy13071673
8. Valentina Grippo, Milos Mojovic, Aleksandra Pavicevic, Martin Kabelac, Frantisek Hubatka, Jaroslav Turanek, Martina Zatloukalova, Bruce A. Freeman, Jan Vacek, Electrophilic characteristics and aqueous behavior of fatty acid nitroalkenes, *Redox Biology* 38 (2021) 101756. https://doi.org/10.1016/j.redox.2020.101756 [IF(2019) = 9.986; 20/297, Biochemistry & Molecular Biology]
9. Milica V.Carević, Tatjana D.Savić, Nadica D.Abazović, **Miloš D.Mojović**, Tatjana B.Novaković, Mirjana I.Čomor, Effect of Fe3+ ion doping on photocatalytic ability of nanozirconia ceramic to degrade 2, 4, 6- trichlorophenol, *Ceramics International* 46(5) (2020) 6820-6827. https://doi.org/10.1016/j.ceramint.2019.11.175 [IF(2018) = 3.45; 2/28, Materials Science, Ceramics]
10. Ksenija Vujacic-Mirski, Kai Bruns, Sanela Kalinovic, Matthias Oelze, Swenja Kröller-Schön, Sebastian Steven, **Miloš Mojović**, Bato Korac, Thomas Münzel and Andreas Daiber, Development of an Analytical Assay for Electrochemical Detection and Quantification of Protein-Bound 3-Nitrotyrosine in Biological Samples and Comparison with Classical, Antibody-Based Methods, *Antioxidants* 9(5) (2020) 388. https://doi.org/10.3390/antiox9050388 [IF(2018) = 4.52; 6/61,Chemistry, Medicinal]
11. Zatloukalova Martina, **Mojović Miloš D**, Pavićević Aleksandra A, Kabelac Martin, Freeman Bruce A, Pekarova Michaela, Vacek Jan, Redox properties and human serum albumin binding of nitro-oleic acid, *Redox Biology* 24 (2019) 101213. https://doi.org/10.1016/j.redox.2019.101213 [IF(2018) = 7.793; 28/298 Biochemistry & Molecular Biology]
12. Jasmina M. Dimitrić Marković, Boris Pejin, Dejan Milenković, Dragan Amić, Nebojša Begović, **Miloš Mojović**, Zoran S. Marković, Antiradical activity of delphinidin, pelargonidin and malvin towards hydroxyl and nitric oxide radicals: The energy requirements calculations as a prediction of the possible antiradical mechanisms, *Food Chemistry* 218 (2017) 440-446. https://doi.org/10.1016/j.foodchem.2016.09.106 [IF(2017) = 4.946; 5/71 Chemistry, Applied]
13. Nataša Jović-Jovičić, Zorica Mojović, **Miloš Mojović**, Predrag Banković, Marija Ajduković, Aleksandra Milutinović-Nikolić, Dušan Jovanović, Electrochemical behavior of immobilized hemoglobin in alkaline solution, *Applied Surface Science* 400 (2017) 347-354. https://doi.org/10.1016/j.apsusc.2016.12.151 [IF(2017) = 4.439; 1/19 Materials Science, Coatings & Films]
14. J. Tošović, S. Marković, J. M. Dimitrić Marković, **M. Mojović**, D. Milenković, Antioxidative mechanisms in chlorogenic acid, *Food Chemistry* 237 (2017) 390-398. https://doi.org/10.1016/j.foodchem.2017.05.080 [IF(2017) = 4.946; 5/71 Chemistry, Applied]

15. T. Barudžija, N. Cvjetićanin, D. Bajuk-Bogdanović, **Miloš. Mojović**, M. Mitrić, Vibrational and electron paramagnetic resonance spectroscopic studies of β-MnO2 and α-KxMnO2 nanorods, *Journal of Alloys and Compounds* 728 (2017) 259-270. https://doi.org/10.1016/j.jallcom.2017.09.015 [IF(2017) = 3.779; 4/75 Metallurgy & Metallurgical Engineering]
16. Filis Morina, Umeo Takahama, **Miloš Mojović**, Ana Popović-Bijelić, Sonja Veljović-Jovanović, Formation of stable radicals in catechin/nitrous acid systems: Participation of dinitrosocatechin, *Food Chemistry* 194 (2016) 1116-1122. https://doi.org/10.1016/j.foodchem.2015.08.081 [IF(2016) = 4.529; 7/72 Chemistry, Applied]
17. Milica Carević, Nadica D. Abazović, Tatjana Savić, Tatjana B. Novaković, **Miloš D. Mojović**, Mirjana I. Čomor, Structural, optical and photodegradation properties of pure and Fe-doped titania nanoparticles probed using simulated Solar light, *Ceramics International* 42(1) (2016) 1521-1529. https://doi.org/10.1016/j.ceramint.2015.09.100 [IF(2016) = 2.986; 2/26 Materials Science, Cereamics]
18. T. Mudrinić, Z. Mojović, A. Milutinović-Nikolić, **M. Mojović**, M. Žunić, N. Vukelić, D. Jovanović, Electrochemical activity of iron in acid treated bentonite and influence of added nickel, *Applied Surface Science* 353 (2015) 1037-1045. https://doi.org/10.1016/j.apsusc.2015.07.054 [IF(2015) = 3.15; 1/18 Materials Science, Coatings & Films]
19. Jelena J. Dragišić Maksimović, Branka D. Živanović, Vuk M. Maksimović, **Miloš D. Mojović**, Miroslav T. Nikolić, Željko B. Vučinić, Filter strip as a method of choice for apoplastic fluid extraction from maize roots, *Plant Science* 223 (2014) 49-58. https://doi.org/10.1016/j.plantsci.2014.03.009 [IF(2013) = 4.114; 19/199 Plant Sciences]
20. Felix Bacher, Orsolya Dömötör, Maria Kaltenbrunner, **Miloš Mojović**, Ana Popović-Bijelić, Astrid Gräslund, Andrew Ozarowski, Lana Filipovic, Sinisa Radulović, Éva A. Enyedy, and Vladimir B. Arion, Effects of Terminal Dimethylation and Metal Coordination of Proline-2-formylpyridine Thiosemicarbazone Hybrids on Lipophilicity, Antiproliferative Activity, and hR2 RNR Inhibition, *Inorganic Chemistry* 53(23) (2014) 12595-12609. https://doi.org/10.1021/ic502239u [IF(2014) = 4.762; 4/46 Chemistry, Inorganic & Nuclear]
21. Miloš Nikolić, Tatjana Marković, **Miloš Mojović**, Boris Pejin, Aleksandar Savić, Tamara Perić, Dejan Marković, Tatjana Stević, Marina Soković, Chemical composition and biological activity of Gaultheria procumbens L. essential oil, *Industrial Crops and Products* 49 (2013) 561-567. https://doi.org/10.1016/j.indcrop.2013.06.002 [IF(2013) = 3.208; 6/79 Agronomy]
22. Boris Pejin, Katarina K. Jovanović, **Miloš Mojović** and Aleksandar G. Savić, New and Highly Potent Antitumor Natural Products from Marine-Derived Fungi: Covering the Period from 2003 to 2012, *Current Topics in Medicinal Chemistry* 13(21) (2013) 2745-2766. https://doi.org/10.2174/15680266113136660197 [IF(2011) = 4.174; 5/59 Chemistry, Medicinal]
23. Jelena Dragišić Maksimović, **Miloš Mojović**, Vuk Maksimović, Volker Römheld and Miroslav Nikolić, Silicon ameliorates manganese toxicity in cucumber by decreasing hydroxyl radical accumulation in the leaf apoplast, *Journal of Experimental Botany* 63(7) (2012) 2411-2420. https://doi.org/10.1093/jxb/err359 [IF(2010) = 4.818; 12/188 Plant Scences]
24. Aleksandar G. Savić, **Miloš Mojović**, Free Radicals Identification from the Complex EPR Signals by Applying Higher Order Statistics, *Analytical Chemistry* 84(7) (2012) 3398-3402. https://doi.org/10.1021/ac300200y [IF(2010) = 5.874; 3/73 Chemistry, Analytical]
25. Biljana Kukavica, **Miloš Mojović**, Željko Vučinić, Vuk Maksimović, Umeo Takahama and Sonja Veljović Jovanović, Generation of Hydroxyl Radical in Isolated Pea Root Cell Wall, and the Role of Cell Wall-Bound Peroxidase, Mn-SOD and Phenolics in Their Production, *Plant and Cell Physiology* 50(2) (2009) 304-317. https://doi.org/10.1093/pcp/pcn199 [IF(2009) = 3.594; 17/173 Plant Sciences]

26. Gođevac D, Vujisić Lj, **Mojović M**, Ignjatović A, Spasojević I, Vajs V, Evaluation of antioxidant capacity of Allium ursinum L. volatile oil and its effect on membrane fluidity, *Food Chemistry* 107(4) (2008) 1692-1700. https://doi.org/10.1016/j.foodchem.2007.10.017 [IF(2008) = 2.696; 6/61 Chemistry, Applied]

27. Miloš R. Filipović, Katharina Duerr, **Miloš Mojović**, Vladica Simeunović, Robert Zimmermann, Vesna Niketić, Ivana Ivanović-Burmazović, NO Dismutase Activity of Seven-Coordinate Manganese(II) Pentaazamacrocyclic Complexes, *Angewandte Chemie International Edition* 47(45) (2008) 8735-8739. https://doi.org/10.1002/anie.200801325 [IF(2008) = 11.829; 5/140 Chemistry, Multidisciplinary]

28. **M. Mojović**, I. Spasojević, G. Bačić, Detection of hydrogen atom adduct of spin-trap DEPMPO. The relevance for studies of biological systems, *Journal of Chemical Information and Modeling* 45(6) (2005) 1716-1718. https://doi.org/10.1021/ci050173d [IF(2005) = 2.923; 6/83 Computer Science, Interdisciplinary Applications]

29. **M. Mojović**, M. Vuletić, G. Bačić and Ž. Vučinić, Oxygen-centered radicals produced by plant plasma membranes: An EPR spin-trap study, *Journal of Experimental Botany* 55(408) (2004) 2523-2531. https://doi.org/10.1093/jxb/erh266 [IF(2004) = 3.366; 12/138 Plant Sciences]

M21 – Paper in a leading international journal (M21) (46)

1. Nevena Preradović, Đura Nakarada, Uroš Gašić, Jasna Simonović Radosavljević, and **Miloš Mojović**, Green Extraction and Liposomal Encapsulation of Inonotus obliquus (Chaga) Extracts: Comparative Phytochemical and Antioxidant Analysis, *Molecules* 31(1) (2026) 146. https://doi.org/10.3390/molecules31010146

2. Đura Nakarada, Uroš Glavinić, Jevrosima Stevanović, Uroš Gašić, Marko Ristanić, **Miloš Mojović** and Zoran Stanimirović, Metabolic Redox Modulation by Agaricus bisporus Aqueous Extract in Honey Bee Cells, *Molecules* 31(12) (2026) 2011. https://doi.org/10.3390/molecules31122011

3. Marijana Skorić, Milica Milutinovicć, Uroš Gašić, Marija Ivanov, Đura Nakarada, **Miloš Mojović**, Ana Ćirić, Nevenka Gligorijević, Đurđa Ivković, Petar Ristivojević, Ladislav Luc, Suzana Živković, Comparative Phytochemical Profiling and Biological Activities of Two Asplenium ceterach L. Extracts, *Molecules* 31(17) (2026) 2978. https://doi.org/10.3390/molecules31172978

4. Milica V. Carević, Nadica D. Abazović, Zorica D. Mojović, Jugoslav B. Krstić, **Miloš D. Mojović**, Tatjana D. Vulić, Mirjana I. Čomor, Urea-Derived Carbon Nitride Fragmentation: A Route to Melem-Based Superstructures, *Polymers* 18(21) (2026) 2664. https://doi.org/10.3390/polym18212664

5. Martina Zatloukalova, Gabin Fabre, Lukas Jedinak, JiriPospisil, Damian Dziubak, Aleksandra Pavićević, Zdenek Dostal, Jiri Vrba, Slawomir Sek, **Miloš Mojović**, Patrick Trouillas and Jan Vacek, Lipid Membrane Behavior of Nitro-Fatty Acids and their Loading into Liposomes to Activate Nrf2 Pathway in RAW264.7 Cells with Impact on Intracellular NO Production, *Chemistry and Physics of Lipids* 270 (2025) 105497. https://doi.org/10.1016/j.chemphyslip.2025.105497

6. Aleksandar Marinković, Đura Nakarada, Miloš Marinković, Hadi Waisi, Vladislav Živanić, Arcadio Vazquez, **Miloš Mojović**, From Analytical Profiling to Liposomal Delivery: Cannabinol as a Model for Antioxidant Encapsulation and Diffusion Enhancement, *Molecules* 30(16) (2025) 3433. https://doi.org/10.3390/molecules30163433

7. Biljana Kukavica, Siniša Škondrić, Kristina Knežević, Toda Ignjatović, Dijana Mihajlović, Đura Nakarada, Nataša Lukić, **Miloš Mojović**, Integrated profiling of essential metals, phenolic compounds, anti-inflammatory and hydroxyl radical scavenging activities for five medicinal plants, *BioMetals* 38(6) (2025) 1863-1880. https://doi.org/10.1007/s10534-025-00735-0

8. Ružičić, A., Dakić, T., Srdić, T., Lakić, I., Stanković, S., **Mojović**, M., Nakarada, Đ., Kračun, D. and Đorđević, J., 2025, Long-term intake of oleic acid-rich palm oil induces obesity without impairing hypothalamic insulin

sensitivity and redox activity in male Wistar rats, *BioFactors* 51(4) (2025) e70036. https://doi.org/10.1002/biof.70036

9. Stefan Jelisić, Zoran Stanimirović, Marko Ristanić, Đura Nakarada, **Miloš Mojović**, Dušan Bošnjaković and Uroš Glavinić, The Potential of Agaricus bisporus in Mitigating Pesticide-Induced Oxidative Stress in Honey Bees Infected with Nosema ceranae, *Life* 14(11) (2024) 1498. https://doi.org/10.3390/life14111498
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24. G Bačić, Ivan Spasojevic, B. Šećerov, **M Mojović**, Spin-trapping of oxygen free radicals in chemical and biological systems: New traps, radicals and possibilities, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 69(5) (2008) 1354-1366. https://doi.org/10.1016/j.saa.2007.09.047 [IF(2008) = 1.51; 20/39 Spectroscopy]

25. J. Bogdanović, **M. Mojović**,·N. Milosavić, A. Mitrović, Ž. Vučinić, I. Spasojević, Role of fructose in the adaptation of plants to cold-induced oxidative stress, *European Biophysics Journal* 37(7) (2008) 1241-1246. https://doi.org/10.1007/s00249-008-0260-9 [IF(2008) = 2.409; 35/70 Biophysics]

26. **Mojović M**, Spasojević I, Spasić M, Bačić G, Fenton reaction produces hydrogen atom •H in chemical and biological systems, *Free Radical Research 40 (Suppl. 1), SFRR International meeting, Davos (2006) S72*. [IF(2006) = 2.536; 128/262 Biochemistry & Molecular Biology]

27. Spasojević I, **Mojović M**, Stević Z, Batas V, Bačić G, Spasić M, Capacity of cerebrospinal fluid to transform hydrogen peroxide – relation to neurodegenerative changes in ALS, *Free Radical Research 40 (Suppl. 1), SFRR International meeting, Davos (2006) S90*. [IF(2006) = 2.536; 128/262 Biochemistry & Molecular Biology]

M23 – Paper in an international journal (M23) (10)

1. Nakarada Đ, Pejin B, Dimić D, Ivanović-Šašić A, Mojović Z, **Mojović M**, Electrochemical and spectroscopic study of L-dopa interaction with avarol, *Reaction Kinetics, Mechanisms and Catalysis* 127(1) (2019) 219-229. https://doi.org/10.1007/s11144-019-01575-z [IF(2017) = 1.515]
2. A. Pavićević, J. Luo, A. Popović-Bijelić, **M. Mojović**, Maleimido-proxyl as an EPR spin label for the evaluation of conformational changes of albumin, *European Biophysics Journal* 46(8) (2017) 773-787. https://doi.org/10.1007/s00249-017-1257-z [IF(2017) = 1.935; 48/72 Biophysics]
3. Nevena Puač, Maja Miletić, **Miloš Mojović**, Ana Popović-Bijelić, Dragana Vuković, Biljana Miličić, Dejan Maletić, Saša Lazović, Gordana Malović, Zoran Lj. Petrović, Sterilization of bacteria suspensions and identification of radicals deposited during plasma treatment, *Open Chemistry* 13(1) (2015) 000010151520150041. https://doi.org/10.1515/chem-2015-0041 [IF(2015) = 1.207; 105/163 Chemistry, Multidisciplinary]
4. Ivan Spasojević, **Miloš Mojović**, Aleksandar Ignjatović, Goran Bačić, The role of EPR spectroscopy in studying of the oxidative status of biological systems and antioxidative properties of various compounds, *Journal of the Serbian Chemical Society* 76(5) (2011) 647-677. https://doi.org/10.2298/jsc101015064s [IF(2010) = 0.725; 98/147 Chemistry, Multidisciplinary]
5. Ivan Spasojević, **Miloš Mojović**, Zorica Stević, Snežana D. Spasić, David R. Jones, Arian Morina, Mihajlo B. Spasić, Bioavailability and catalytic properties of copper and iron for Fenton chemistry in human cerebrospinal fluid, *Redox Report* 15(1) (2010) 29-35. https://doi.org/10.1179/174329210x12650506623087 [IF(2010) = 1.514; 224/286 Biochemistry and Molecular Biology]
6. **Miloš Mojović**, 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(06n07) (2010) 780-787. https://doi.org/10.1142/s0217979210064411 [IF(2009) = 0.408; 99/108 Physics, Applied]
7. Marko Daković, **Miloš Mojović**, Goran Bačić, EPR study of the production of OH radicals in aqueous solutions of uranium irradiated by ultraviolet light, *Journal of the Serbian Chemical Society* 74(6) (2009) 651-661. https://doi.org/10.2298/jsc0906651d [IF(2009) = 0.82; 87/140 Chemistry, Multidisciplinary]
8. B. Kukavica, A. Mitrović, **M. Mojović**, S. Veljović-Jovanović, Effect of indole-3-acetic acid on pea root growth, peroxidase profiles and hydroxyl radical formation, *Archives of Biological Sciences* 59(4) (2007) 319-326. https://doi.org/10.2298/abs0704319k [IF(2009) = 0.238; 73/76 Biology]
9. **M. Mojović**, I. Spasojević, M. Vuletić, Ž Vučinić, G. Bačić, An EPR spin-probe and spin-trap study of free radicals produced by plant plasma membranes, *Journal of the Serbian Chemical Society* 70(2) (2005) 177-186. https://doi.org/10.2298/jsc0502177m [IF(2004) = 0.522; 85/124 Chemistry, Multidisciplinary]
10. J.Petković, I.Mladenović, N.Vukelić, **M.Mojović**, G.Bačić, Lanthanide doped alkaline metal sulphates as candidates for EPR dosimetry, *Journal of the Serbian Chemical Society* 65(10) (2000) 743-754. https://doi.org/10.2298/jsc0010743p [IF(2000) = 0.277; 91/118 Chemistry, Multidisciplinary]

TEXTBOOKS AND TEACHING MATERIALS

- **Miloš Mojović**, *Računarstvo i informatika za studente fizičke hemije sa primerima iz biofizičke hemije*, Textbook, University of Belgrade – Faculty of Physical Chemistry, 2020, ISBN 978-86-82139-78-2.
- Marko Daković, **Miloš Mojović**, *Praktikum iz radiohemije i nuklearne hemije*, Laboratory manual, University of Belgrade – Faculty of Physical Chemistry, 2019, ISBN 978-86-82139-75-1.
- Ana Popović-Bijelić, **Miloš Mojović**, *Praktikum iz biofizičke hemije (2. izdanje)*, Laboratory manual, University of Belgrade – Faculty of Physical Chemistry, 2017, ISBN 978-86-82139-70-6.

- Ana Popović-Bijelić, **Miloš Mojović**, *Biofizička hemija (poglavlje 3), u: Nauka oko nas – Fizička hemija za srednjoškolce, ur. Ljiljana Damjanović*, Book chapter for high-school students, University of Belgrade – Faculty of Physical Chemistry, 2014, ISBN 978-86-82139-48-5.
- Ana Popović-Bijelić, **Miloš Mojović**, *Praktikum iz biofizičke hemije*, Laboratory manual, University of Belgrade – Faculty of Physical Chemistry, 2013, ISBN 978-86-82139-40-9.

TEACHING

Undergraduate studies (BSc)

- Radiochemistry and Nuclear Chemistry (teaching assistant)
- Nuclear Spectrometry (teaching assistant)
- Atomistics (teaching assistant)
- Physical Chemistry 2 (for chemistry students) (teaching assistant)
- Biophysical Chemistry (teaching assistant)
- Computer Applications in Physical Chemistry
- Computer Practicum
- Applied Chemistry – Univerzitet umetnosti u Beogradu – Fakultet primenjenih umetnosti (konzervacija i restauracija)

Master studies (MSc)

- Biophysical Chemistry and Dynamics of Non-equilibrium Processes
- Biophysical Chemistry 2
- Physicochemical Methods in Biology and Medicine
- Information Technologies in Biophysical Chemistry
- Biophysical Chemistry – Experimental and Theoretical Approach
- Magnetic Resonance Methods in Physical Chemistry
- Model Systems in Biophysical Chemistry

Doctoral studies (PhD)

- Radiation Chemistry and Dosimetry
- Membrane Transport
- Physicochemical Methods in Biomedicine
- Methods and Methodology of Physicochemical Research (contributing lecturer)
- Physicochemical Foundations of Biophysics – University of Belgrade – multidisciplinarne studije Biofizika
- Modelling of Biophysical Processes and Phenomena – University of Belgrade – multidisciplinarne studije Biofizika
- Redox Processes in Biological Systems – Physicochemical Aspect
- Physicochemical Methods in Medicine and Medical Research

Specialist studies – Forensics

- Physicochemical Analysis in Forensics (contributing lecturer)

RESEARCH STAYS ABROAD

2026 **Dongguan University of Technology (DGUT)**, Narodna republika Kina
Research collaboration and invited lecture u okviru „Joint Research and Exchange Project on Pharmaceutical Functional Materials Based on Neutron Scattering between Dongguan University of Technology and University of Belgrade“ (Guangdong Overseas Distinguished Teacher Program)

2019	**Palacký University, Department of Medical Chemistry and Biochemistry (prof. Jan Vacek)**, Olomouc, Czech Republic Research collaboration
2019	**Université Paris Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques**, Paris, France Research collaboration
2019	**N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS**, Novosibirsk, Russia Research collaboration and invited lecture
2018	**Universitätsmedizin Mainz, Labor für Molekulare Kardiologie**, Mainz, Germany Research collaboration
2018	**German Heart Center Munich at TUM, Experimental and Molecular Pediatric Cardiology**, Munich, Germany Research collaboration
2018	**Max Planck Institute for Biological Cybernetics, MR Neuroimaging Agents**, Tübingen, Germany Research collaboration
2007	**University of Oxford, Department of Plant Sciences**, Oxford, United Kingdom Research visit in biophysical chemistry and computational physical chemistry

COLLABORATIONS

National

- Institut za biološka istraživanja „Siniša Stanković”, Belgrade, Serbia
- Institut za onkologiju i radiologiju Srbije, Belgrade, Serbia
- Institut za patologiju, Medicinski fakultet UB, Belgrade, Serbia
- Institut za fiziku, Belgrade, Serbia
- Institut za nuklearne nauke „Vinča”, Belgrade, Serbia
- Institut za multidisciplinarna istraživanja UB, Belgrade, Serbia
- Biološki fakultet UB, Belgrade, Serbia
- Medicinski fakultet UB, Belgrade, Serbia
- Hemijski fakultet UB, Belgrade, Serbia
- Fakultet veterinarske medicine UB, Belgrade, Serbia
- IHTM – Centar za katalizu, Belgrade, Serbia

International

- Universitätsmedizin der Johannes Gutenberg-Universität, II. Medizinische Klinik – Labor für Molekulare Kardiologie, Mainz, Germany
- Experimental and Molecular Pediatric Cardiology, German Heart Center Munich at TUM, Munich, Germany
- Max Planck Institute for Biological Cybernetics, MR Neuroimaging Agents, Tübingen, Germany
- Department of Medical Chemistry and Biochemistry, Palacký University, Olomouc, Czech Republic
- Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, Université Paris Descartes, Paris, France
- N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry SB RAS, Novosibirsk, Russia

EDITORIAL WORK AND REVIEWING

Editorial board member

- European Biophysics Journal (Springer)
- Hospital Pharmacology – International Multidisciplinary Journal
- Frontiers in Nutrition

Journal reviewer

- Environmental Science & Technology (2011)
- Analytical Chemistry (2012)
- Process Biochemistry (2013)
- Journal of Physical Chemistry (2015)
- Free Radical Biology & Medicine (2015)
- Journal of Molecular Graphics and Modelling (2018)
- Free Radical Biology & Medicine (2019)
- Free Radical Biology & Medicine (2020)

Book reviewer

- „Praktikum iz primene računara u hemiji", dr Miloš Milčić i dr Goran Janjić (2014)
- „Praktikum iz molekulske spektrohemije", dr Jasmina Dimitrić-Marković (2018)

Project reviewer

- Bilateralni projekat sa Kinom (2017)

MEMBERSHIPS AND COMMITTEES

Professional societies

- Društvo biofizičara Srbije
- Društvo fizikohemičara Srbije
- Association of Resources for Biophysical Research in Europe (ARBRE-MOBIEU)

Conference committees

- 8th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 26–29.9.2006.
- 9th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 24–26.9.2008.
- 10th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 21–24.9.2010.
- 11th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 22–26.9.2012.
- 12th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 22–26.9.2014.
- 13th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 26–30.9.2016.
- Raman4Clinics, Beograd, 6–7.7.2017.
- 10th Regional Biophysics Conference & 15th International Summer School of Biophysics, Split, Hrvatska, 26–30.8.2024.

- 14th International Conference on Fundamental and Applied Aspects of Physical Chemistry, Beograd, 24–28.9.2018.

AWARDS AND HONOURS

2020 **Letter of Appreciation**, Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije