

PERSONAL INFORMATION

Name and surname	Edina Avdović
Date and place of birth	10.09.1979., Novi Pazar, Serbia
Scientific title	PhD in Chemistry
E-mail	edina.avdovic@pmf.kg.ac.rs
Educational-scientific / educational-artistic field	Natural Sciences
University, Faculty, Organizational unit	University of Kragujevac, Institute for Information Technologies Kragujevac, Department of Science
Research field and areas	Chemistry, Organic chemistry

EDUCATION

BACHELOR

Year	2013.
Place	Novi Pazar, Republic of Serbia
Institution	State university of Novi Pazar, Department of Chemical-Technological sciences

MASTER STUDIES

Year	2014.
Place	Kosovska Mitrovica
Institution	Faculty of Science, University of Pristina, Republic of Serbia.

DOCTORAL DISSERTATION

Year	2018.
Place	Kragujevac
Institution	Faculty of Science, University of Kragujevac

Title of doctoral dissertation	Synthesis, characterization and biological activity of some coumarin derivatives and corresponding Pd(II) complexes
Scientific title	Senior Research Associate
Research area	Chemistry

PROFESSIONAL BIOGRAPHY – ELECTION IN RESEARCH OR SCIENTIFIC TITLE

Date	Institution	Scientific title
2017.	Faculty of Science, University of Kragujevac	Junior Research Assistant
2018.	Faculty of Science, University of Kragujevac	Research Assistant
2020.	Department of Science, Institute for Information Technologies Kragujevac, University of Kragujevac	Research Associate
2023.	Department of Science, Institute for Information Technologies Kragujevac, University of Kragujevac	Senior Research Associate

PROFESSIONAL BIOGRAPHY - TRAINING

Year	Institution	Duration
2019.	Laboratory for NMR Spectroscopy and Modelling, NMR Center, Ruđer Bošković Institute, Zagreb, Croatia	3 months
2021.	University of Applied Sciences Merseburg, Department of Engineering and Natural Sciences	7 days

ENGAGEMENT IN THE FORMATION OF SCIENTIFIC PERSONNEL

Mentor of two doctoral dissertations at the Faculty of Science, University of Kragujevac. Participation in the committee for the evaluation and defense of doctoral dissertation at the Faculty of Science, University of Kragujevac. Participation in the preparation of a large number of graduate, final and master theses at the Faculty of Science, University of Kragujevac, and membership in the commission for the defense of the master's thesis at the Faculty of Physical Chemistry, University of Belgrade.

PARTICIPATION IN NATIONAL PROJECTS FINANCED BY MINISTRY OF EDUCATION/MINISTRY OF SCIENCE AND TECHNOLOGICAL DEVELOPMENT/SCIENCE FUND OF THE REPUBLIC OF SERBIA:

1. Project number: (172016) "Synthesis, modeling, physico-chemical and biological properties of organic compounds and corresponding metal complexes" (period of engagement: 2011-2019; supervisor Prof. Dr. Srećko Trifunović);
2. Principal investigator of the PROMIS project of the Science Fund of the Republic of Serbia, Unleashing Nature's Potential: Using Grape Skin Extract and Sustainable Materials for Advanced Chronic Wound Therapy (GraSP_MAT), project number: TF C1389-YF.

PARTICIPATION IN INTERNATIONAL PROJECTS

2019-2020: Bilateral project between the Republic of Serbia-Slovak Republic "Synergy of experiment and theory: antioxidative action of phenolic compounds derivatives", Ministry of Education, Science and Technological Development of Republic Serbia, No. 337-00-107/2019-09/10

2021-2022: DAAD HAW 2020, part project Balkan-Network.

2021: ERASMUS+ project KA103 (2021).

2023: Bilateral project between the Republic of Serbia-Slovenija: „Development of a computational protocol to evaluate 4-hydroxycoumarin-neurotransmitter derivatives in the treatment of Alzheimer's disease“, Ministry of Science, Technological Development and Innovation, of the of Republic Serbia, No. 337-00-110/2023-05/20.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS

Member of the Serbian Chemical Society since 2019.
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Member of the Serbian Crystallographic Society since 2017.
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ORGANIZATION OF NATIONAL/INTERNATIONAL SCIENTIFIC MEETINGS (CONFERENCES, CONGRESSES...)

2021. - Member of the organizing committee –

<i>1st International Conference on Chemo and BioInformatics (ICCBIG),</i> Institute for Information Technologies Kragujevac, Kragujevac, Serbia, 26-27 October,
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<i>27th Conference of the Serbian Crystallographic Society,</i> Kragujevac, Serbia, 2021.
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2023. - Member of the organizing committee –

<i>2st International Conference on Chemo and BioInformatics (ICCBIG),</i> Institute for Information Technologies Kragujevac, Kragujevac, Serbia, 28-29 September, 2023.
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2023. - Member of the scientific committee

<i>2st International Conference on Chemo and BioInformatics (ICCBIG),</i> Institute for Information Technologies Kragujevac, Kragujevac, Serbia, 28-29 September, 2023.
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LIST OF SCIENTIFIC PAPERS:

Monographs, Monographic studies, Thematic anthologies	Sum
Papers published in scientific journals of international scientific importance	Sum
	41
1. D. Milenković, J. Đorović, S. Jeremić, J. M. Dimitrić Marković, <u>E. H. Avdović</u> , Z. Marković; Free radical scavenging potency of dihydroxybenzoic acids; <i>Journal of Chemistry</i> , 2017 (2017) 1–9, IF ₂₀₁₇ =1.726, ISSN: 0973-4945, DOI: 10.1155/2017/5936239.	

2. **Edina H. Avdović**, Danijela LJ. Stojković, Verica V. Jevtić, Milica Kosić, Biljana Ristić, Ljubica Harhaji-Trajković, Milena Vukić, Nenad Vuković, Zoran S. Marković, Ivan Potočňák, Srećko R. Trifunović; Synthesis, Characterization and Cytotoxicity of a new Palladium(II) Complex with a Coumarin-Derived ligand 3-(1-(3-hydroxypropylamino) ethylidene) chroman-2,4-dione. Crystal structure of the 3-(1-(3-hydroxypropylamino) ethylidene) chroman-2,4-dione; *Inorganica Chimica Acta*, 466 (2017) 188–196, IF₂₀₁₈=2.433, ISSN: 0020-169, DOI: 10.1016/j.ica.2017.06.015.
3. **Edina H. Avdović**, Dejan Milenković, Jasmina M. Dimitrić-Marković, Nenad Vuković, Srećko R. Trifunović and Zoran S. Marković; Structural, spectral and NBO analysis of 3-(1-(3-hydroxypropylamino) ethylidene) chroman-2,4-dione; *Journal of Molecular Structure*, 1147 (2017) 69-75, IF₂₀₁₇=2.011, ISSN: 0022-2860, DOI: 10.1016/j.molstruc.2017.06.094.
4. Dejan Milenković, **Edina H. Avdović**, Dušan Dimić, Nenad Vuković, Srećko R. Trifunović and Zoran S. Marković; Reactivity of the Novel Coumarine Derivative towards Cartilage Proteins: Combined NBO, QTAIM and Molecular Docking study. *Monatshefte Fur Chemie - Chemical Monthly* 149 (2018) 159–166, IF₂₀₁₇=1,285, ISSN: 0026-9247, DOI: 10.1007/s00706-017-2051-4.
5. Dejan Milenković, Jelena Đorović, Vladimir Petrović, **Edina H. Avdović** and Zoran Marković; Hydrogen atom transfer versus proton coupled electron transfer mechanism of gallic acid with different peroxy radicals. *Reac Kinet Mech Cat.* 123 (2018) 215-230, IF₂₀₁₇=1.515, ISSN: 1878-5190, DOI 10.1007/s11144-017-1286-8.
6. **Edina H. Avdović**, Dejan Milenković, Jasmina M. Dimitrić Marković, Jelena Đorović, Nenad Vuković, Milena D. Vukić, Verica V. Jevtić, Srećko R. Trifunović, Ivan Potočňák, Zoran Marković, Synthesis, spectroscopic characterization (FT-IR, FT-Raman, and NMR), quantum chemical studies and molecular docking of 3-(1-(phenylamino)ethylidene)-chroman-2,4-dione, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 195 (2018) 31–40, IF₂₀₁₉=3.232, ISSN:1386-1425, DOI: 10.1016/j.saa.2018.01.023.
7. **Edina H. Avdović**, Dušan S. Dimić, Jamina Dimitrić Marković, Nenad Vuković, Milanka Đ. Radulović, Marko N. Živanović, Nenad D. Filipović, Jelena R. Đorović, Srećko R. Trifunović, Zoran S. Marković, Spectroscopic and theoretical investigation of the potential

anti-tumor and anti-microbial agent, 3-(1-((2-hydroxyphenyl)amino) ethylidene) chroman-2,4-dione, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 206 (2019) 421–429, IF₂₀₁₉=3.232, ISSN:1386-1425, DOI:10.1016/j.saa.2018.08.034.

8. **Edina H. Avdović**, Danijela Lj. Stojković, Verica V. Jevtić, Dejan Milenković, Zoran S. Marković, Nenad Vuković, Ivan Potočňák, Ivana D. Radojević, Ljiljana R. Čomić, Srećko R. Trifunović, Preparation and antimicrobial activity of a new palladium(II) complexes with a coumarin-derived ligands. Crystal structures of the 3-(1-(o-toluidino) ethylidene)-chroman-2,4-dione and 3-(1-(m-toluidino)ethylidene)- chroman-2,4-dione, *Inorganica Chimica Acta*, 206 (2019) 421–429, IF₂₀₁₈=2.433, ISSN: 0020-169. DOI: 10.1016/j.ica.2018.09.014.
9. Dušan S. Dimić, Zoran S. Marković, Luciano Saso, **Edina H. Avdović**, Jelena R. Đorović, Isidora P. Petrović, Danijela D. Stanisavljević, Milena J. Stevanović, Ivan Potočňák, Erika Samolová, Srećko R. Trifunović, Jasmina M. Dimitrić Marković, Synthesis and characterization of 3-(1-((3,4-dihydroxyphenethyl) amino) ethylidene)-chroman-2,4-dione as potential anti-tumor agent, *Oxidative Medicine and Cellular Longevity*, 12 (2019) 12-24, IF₂₀₁₉=5.076, ISSN: 1942-0900 DOI: 10.1155/2019/2069250.
10. Katarina Jakovljevic, Milan D Joksovic, Bruno Botta, Ljiljana S Jovanovic, **Edina Avdovic**, Zoran Markovic, Vladimir Mihailovic, Marijana Andric, Snezana Trifunovic, Violeta Markovic, Novel 1,3,4-thiadiazole conjugates derived from protocatechuic acid: Synthesis, antioxidant activity, computational and electrochemical studies, *Comptes rendus chimie*, 22 (2019) 585-598, IF₂₀₁₈=2.366, ISSN: 1631- 0748, DOI: 10.1016/j.crci.2019.06.001.
11. Milena D. Vukic , Nenad L. Vukovic, Ana Obradovic, Milos Matic, Maja Djukic, **Edina H. Avdovic**, Redox Status, DNA and HSA Binding Study of Naturally Occurring Naphthoquinone Derivatives, *EXCLI Journal*, 19 (2020) 48-70, IF₂₀₂₀=4.068, ISSN: 1611-2156, doi:10.17179/excli2019-1859.
12. **Edina H. Avdović**, Žiko B. Milanović, Marko N. Živanovića, Dragana S. Šeklić, Ivana D. Radojević, Ljiljana R. Čomić, Srećko R. Trifunović, Ana Amić, Zoran S. Marković, Synthesis, spectroscopic characterization, biological activity, DFT and molecular docking study of novel 4-hydroxycoumarine derivatives and corresponding

- palladium(II) complexes, *Inorganica Chimica Acta*, 504 (2020) 119465, IF₂₀₂₀=2.545, ISSN: 0020-169, DOI: 10.1016/j.ica.2020.119465.
13. Dejan Milenkovic, **Edina Avdovic**, Dusan Dimic, S Sudha, D Ramarajan, Ziko Milanovic, Srecko Trifunovic, Zoran Markovic, IR spectroscopic characterization, Hirshfeld surface, NBO and AIM analyses and molecular docking studies of coumarin derivative 3-(1-m-toluidinoethylidene)-chromane-2,4-dione and its corresponding palladium (II) complex, *Journal of Molecular Structure*, 1209 (2020) 127935, IF₂₀₂₀=3.196, ISSN: 0022-2860, DOI: 10.1016/j.molstruc.2020.127935.
 14. Dejan Milenkovic, Ana Amic, Dušan Dimic, **Edina Avdovic**, Jasmina Dimitric Markovic, Zoran Markovic, Advanced oxidation process of coumarins by hydroxyl radical: Towards the new mechanism leading to less toxic products, *Chemical Engineering Journal*, 395, (2020), 124971, IF₂₀₂₀=13.273, ISSN: 1385-8947, DOI: 10.1016/j.cej.2020.124971.
 15. Sandra S. Jovičić Milić, Verica V. Jevtić, Danijela Lj. Stojković, Đorđe S. Petrović, **Edina H. Avdović**, Zoran S. Marković, Ivana D. Radojević, Ljiljana Čomić, Violeta S. Mladenović, Synthesis, characterization and antimicrobial activity of palladium(II) complexes with O,O'-dialkyl esters of (S,S)-ethylenediamine-N,N'-di-(3,3'-1H-indol-3yl)-propionic acid, *Inorganica Chimica Acta*, 510 (2020) 119743, IF₂₀₂₀=2.545, ISSN: 0020-169, DOI: 10.1016/j.ica.2020.119743.
 16. Dejan A. Milenković, Dušan S. Dimić, **Edina H. Avdović** and Zoran S. Marković, Several coumarin derivatives and their Pd(II) complexes as potential inhibitors of the main protease of SARS-CoV-2, an in silico approach, *RSC Advances*, 10 (2020) 35099, IF₂₀₂₀=3.361, ISSN: 2046- 2069, DOI: 10.1039/d0ra07062a.
 17. **Edina H. Avdovic**, Dusan S. Dimic, Marek Fronc, Jozef Kozisek, Erik Klein, Ziko B.Milanovic, Ana Kesic, Zoran S. Markovic, Structural and theoretical analysis, molecular docking/dynamics investigation of 3- (1-m-chloridoethylidene)-chromane-2,4-dione: the role of chlorine atom, *Journal of Molecular Structure*, 2021, 129962, IF₂₀₂₁=3.841, DOI: 10.1016/j.molstruc.2021.129962.
 18. Žiko B. Milanović, Dušan S. Dimić, **Edina H. Avdović**, Dejan A. Milenković, Jasmina Dimitrić Marković, Olivera R. Klisurić, Srećko R. Trifunović, Zoran S. Marković Synthesis and comprehensive spectroscopic (X-ray, NMR, FTIR, UV-Vis), quantum chemical and molecular docking investigation of 3-acetyl-4-hydroxy-2-oxo-2H-

- chromen-7-yl acetate, *Journal of Molecular Structure*, 1225 (2021) 129256 IF₂₀₂₁=3.841, DOI: 10.1016/j.molstruc.2020.129256 (M22).
19. Žiko B. Milanović, Marko R. Antonijević, Ana D. Amić, **Edina H. Avdović**, Dušan S. Dimić, Dejan A. Milenković and Zoran S. Marković, Inhibitory activity of quercetin, its metabolite, and standard antiviral drugs towards enzymes essential for SARS-CoV-2: the role of acid– base equilibria, *RSC Advances*, 11 (2021) 2838, IF₂₀₂₁=4.036, ISSN: 2046- 2069, DOI: 10.1039/d0ra09632f. (M22).
 20. **Edina H. Avdović**, Isidora P. Petrović , Milena J. Stevanović, Luciano Saso, Jasmina M. Dimitrić Marković, Nenad D. Filipović , Miroslav Ž. Živić ,Tijana N. Cvetić Antić, Milan V. Žižić, Nataša V. Todorović, Milena Vukić, Srećko R. Trifunović, and Zoran S. Marković, Synthesis and Biological Screening of New 4-Hydroxycoumarin Derivatives and Their Palladium(II) Complexes, *Oxidative Medicine and Cellular Longevity*, 2021 (2021) 18-36, IF₂₀₂₁=7.310, ISSN: 1942-0900 DOI: 10.1155/2021/8849568.
 21. Žiko B.Milanović, Zoran S. Marković , Dušan S. Dimić, Olivera R. Klisurić, Ivana D. Radojević, Dragana S. Šeklić, Marko N. Živanović, Jasmina Dimitrić Marković, Milanka Radulović and **Edina H. Avdović**, Synthesis, structural characterization, biological activity and molecular docking study of 4,7-dihydroxycoumarin modified by aminophenol derivatives, *Comptes rendus chimie*, 24 (2021) 215-232, IF₂₀₂₀=3.117, ISSN: 1631-0748, DOI: 10.5802/crchim.68>.
 22. Dušan S. Dimić, Dejan A. Milenković, **Edina H. Avdović**, Đura J. Nakarada, Jasmina M. Dimitrić Marković, Zoran S. Marković, Advanced oxidation processes of coumarins by hydroperoxyl radical: an experimental and theoretical study, and ecotoxicology assessment, *Chemical Engineering Journal*, 2021, 130331, IF₂₀₂₁=16.744, ISSN: 1385- 8947, doi: 10.1016/j.cej.2021.130331.
 23. Marko R. Antonijević, Dušica M. Simijonović , **Edina H. Avdović**, Andrija Cirić, Zorica D. Petrović, Jasmina Dimitrić Marković , Višnja Stepanić and Zoran S. Marković, Green One-Pot Synthesis of Coumarin-Hydroxybenzohydrazide Hybrids and Their Antioxidant Potency, *Antioxidants*, 10 (2021), 1106, IF₂₀₂₁= 7.675, ISSN:2076-3921, doi: 10.3390/antiox10071106.
 24. Sandra S. Jovičić Milić, Verica V. Jevtić, **Edina H. Avdović**, Biljana Petrović, Milica Međedović, Đorđe S. Petrović, Marija Milovanović, Jelena Milovanović, Nebojša Arsenijević, Danijela Lj. Stojković,

- Gordana P. Radić & Miloš J. Stanković, DNA binding, molecular docking study and antitumor activity of [PdCl₂(R₂-(S,S)-eddrp)] complexes, *Monatshefte für Chemie - Chemical Monthly*, IF₂₀₂₁=1.613, ISSN: 0026-9247, DOI: 10.1007/s00706-021-02820-9.
25. J. Echave, M. Fraga-Corral, P. García-Pérez, Jelena Popović-Djordjević, **Edina H. Avdović**, Milanka Radulović, Jianbo Xiao, M. A. Prieto, J. Simal-Gandara, Seaweed Protein Hydrolysates and Bioactive Peptides: Extraction, Purification & Applications, *Marine Drugs*, 19 (9) (2021) 500, IF₂₀₂₁= 6.085, ISSN=1660-3397, doi:10.3390/md19090500, Review.
 26. Žiko Milanović, Dušan Dimić, Milan Žižić, Dejan Milenković, Zoran Marković, **Edina Avdović**, Mechanism of Antiradical Activity of Newly Synthesized 4,7-Dihydroxycoumarin Derivatives- Experimental and Kinetic DFT Study, *International Journal of Molecular Sciences*, 22 (2021) 13273, IF₂₀₂₁=6.208, ISSN:1422-0067, doi: 10.3390/ijms222413273.
 27. Marko R. Antonijević, **Edina H. Avdović**, Dušica M. Simijonović, Žiko B. Milanović, Ana D. Amić and Zoran S. Marković, Radical scavenging activity and pharmacokinetic properties of coumarin–hydroxybenzohydrazide hybrids, *International Journal of Molecular Sciences* 23 (2022) 490, IF₂₀₂₁=6.208, ISSN:1422-0067, doi: 10.3390/ijms23010490.
 28. **Edina H. Avdović**, Žiko B. Milanović, Krešimir Molčanov, Sunčica Roca, Dražen Vikić-Topić Emina M. Mrkalić, Ratomir M. Jelić, Zoran S. Marković, Synthesis, characterization and investigating the binding mechanism of novel coumarin derivatives with human serum albumin: Spectroscopic and computational approach, *Journal of Molecular Structure*, 1254 (2022) 132366, IF₂₀₂₁=3.84, ISSN: 0022-2860, doi: 10.1016/j.molstruc.2022.132366.
 29. Dušan S. Dimić, Goran N. Kaluderović, **Edina H. Avdović**, Dejan A. Milenković, Marko N. Živanović, Ivan Potocnák, Erika Samol'ová, Milena S. Dimitrijević, Luciano Saso, Zoran S. Marković and Jasmina M. Dimitrić Marković, Synthesis, Crystallographic, Quantum Chemical, Antitumor, and Molecular Docking/Dynamic Studies of 4-Hydroxycoumarin-Neurotransmitter Derivatives, *International Journal of Molecular Sciences* 23 (2022) 1001, IF₂₀₂₁=6.208, ISSN:1422-0067, doi: 10.3390/ijms23021001.

30. Aleksandra Krstic, Aleksandar Pavic, **Edina Avdović**, Zoran Markovic, Milena Stevanovic and Isidora Petrovic, Coumarin-Palladium(II) Complex Acts as a Potent and Non-Toxic Anticancer Agent against Pancreatic Carcinoma Cells, *Molecules*, 27 (2022) 2115, IF₂₀₂₁=4.927, ISSN: 1420-3049, doi: 10.3390/molecules27072115.
31. Žiko Milanović, Dušan Dimić, Marko Antonijević, Milan Žižić, Dejan Milenković, **Edina Avdović**, Zoran Marković, Influence of acid-base equilibria on the rate of the chemical reaction in the advanced oxidation processes: Coumarin derivatives and hydroxyl radical, *Chemical Engineering Journal* 453 (2023) 139648, IF₂₀₂₁=16.744, ISSN: 1385-8947, doi: 10.1016/j.cej.2022.139648.
32. **Edina H. Avdović**, Marko Antonijević, Dušica Simijonović, Sunčica Roca, Dražen Vikić Topić, 2,3, Nada Grozdanić, Tatjana Stanojković, Ivana Radojević, Radiša Vojinović and Zoran Marković, Synthesis and Cytotoxicity Evaluation of Novel Coumarin–Palladium(II) Complexes against Human Cancer Cell Lines, *Pharmaceuticals*, 16 (2023) 49, IF₂₀₂₁ = 5.215, ISSN: 1424-8247, doi: 10.3390/ph16010049
33. Žiko Milanović, Dušan Dimić, Erik Klein, Monika Biela, Vladimír Lukeš, Milan Žižić, **Edina Avdović**, Drago Bešlo, Radiša Vojinović, Jasmina Dimitrić Marković, Zoran Marković, Degradation Mechanisms of 4,7-dihydroxycoumarin derivatives in Advanced Oxidation Processes: Experimental and Kinetic DFT study, *International Journal of Environmental Research and Public Health*, 20 (2023) 2046, IF₂₀₂₁ = 4.614, ISSN: 1661-7827, doi.org/10.3390/ijerph20032046
34. Đorđe S. Petrović, Sandra S. Jovičić Milić, Maja B. Đukić, Ivana D. Radojević, Milena M. Jurišević, Nevena M. Gajović, Anđela Petrović, Nebojša N. Arsenijević, Ivan P. Jovanović, **Edina Avdović**, Danijela Lj. Stojković, Verica V. Jevtić, Synthesis, characterization, HSA binding, molecular docking, cytotoxicity study, and antimicrobial activity of new palladium(II) complexes with propylenediamine derivatives of phenylalanine, *Journal of Inorganic Biochemistry*, 246 (2023) 112283, IF₂₀₂₁ = 4.336, ISSN: 0162-0134, doi: 10.1016/j.jinorgbio.2023.112283.
35. Dejan Milenković, Dušan Dimić, **Edina Avdović**, Dušica Simijonović, Radiša Vojinović, Zoran Marković, A thermodynamic and kinetic HO radical scavenging study and protein binding of baicalein, *The*

- Journal of Chemical Thermodynamics*, 185 (2023) 107110, IF₂₀₂₁= 3.269, ISSN: 0021-9614, doi: 10.1016/j.jct.2023.107110.
36. Jelena Vasić, Dušan Dimić, Marko Antonijević, **Edina H. Avdović**, Dejan Milenković, Đura Nakarada, Jasmina Dimitrić Marković, Maja Molnar, Melita Lončarić, Drago Bešlo, and Zoran Marković, The Electronic Effects of 3-Methoxycarbonylcoumarin Substituents on Spectral, Antioxidant, and Protein Binding Properties, *International Journal of Molecular Sciences*, 24(14) (2023) 11820, IF₂₀₂₁=6.208, ISSN:1422-0067, [doi:10.3390/ijms241411820](https://doi.org/10.3390/ijms241411820)
37. Žiko Milanović, Marko Antonijević, **Edina Avdović**, Vladimir Simić, Miljan Milošević, Zana Dolićanin, Miloš Kojić & Zoran Marković, *In silico* evaluation of pharmacokinetic parameters, delivery, distribution and anticoagulative effects of new 4,7-dihydroxycoumarin derivative, *Journal of Biomolecular Structure and Dynamics*, IF₂₀₂₁= 5.235, ISSN: 0739-1102, [doi: 10.1080/07391102.2023.2245071](https://doi.org/10.1080/07391102.2023.2245071)
38. Dušica M. Simijonović, Dejan A. Milenković, **Edina H. Avdović**, Žiko B. Milanović, Marko R. Antonijević, Ana D. Amić, Zana Dolićanin and Zoran S. Marković, Coumarin N-Acylhydrazones: Green Synthesis and Antioxidant Potential—Experimental and Theoretical Study, *Antioxidants* 12 (2023), 1858, IF₂₀₂₁= 7.675, ISSN:2076-3921, doi: 10.3390/antiox12101858.
39. **Edina H. Avdović**, Žiko Milanović, Dušica Simijonović, Marko Antonijević, Milena Milutinović, Danijela Nikodijević, Nenad Filipović, Zoran Marković and Radiša Vojinović, An Effective, Green Synthesis Procedure for Obtaining Coumarin-Hydroxybenzohydrazide Derivatives and Assessment of Their Antioxidant Activity and Redox Status, *Antioxidants* 12 (2023), 2070, IF₂₀₂₁= 7.675, ISSN:2076-3921, doi: 10.3390/antiox12122070.
40. Marko R. Antonijević, **Edina H. Avdović**, Dušica M. Simijonović, Žiko Milanović, Milan Žižić, Zoran S. Marković, Investigation of novel radical scavenging mechanisms in the alkaline environment: Green, sustainable and environmentally friendly antioxidative agent(s), *Science of the Total Environment*, 912 (2024) 169307, IF₂₀₂₂=9.800, ISSN: 0048-9697, doi: 10.1016/j.scitotenv.2023.169307.

Proceedings of international scientific conferences	Sum 34
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Proceedings of national scientific conferences

Sum

Monographs of national importance	Sum
Scientific papers in national journals	Sum 2
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h-Index – 19

BRIEF DESCRIPTION OF RESEARCH IN THE PREVIOUS PERIOD

Scientific research in the previous period was focused on the synthesis of potentially biologically active coumarins and their palladium(II) complexes, as well as on the examination of their biological properties.

BRIEF DESCRIPTION OF PLANNED RESEARCH IN THE NEXT PERIOD

In the following period, the synthesis of some new biologically active coumarins is planned, as well as the examination of their antioxidant and anticoagulant activity in vitro, in vivo i in silico.