

Žiko Milanović


Master of Science, Chemistry




PERSONAL INFORMATION

Date of birth: 17.03.1994.
Birth Place: Prijepolje
Gender: Male
Citizenship: Republic of Serbia

CONTACT

 Prirodno-matematički fakultet,
Univerzitet u Kragujevcu, Radoja
Domanovića, 12.

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PERSONAL SKILLS

Attentive Listening and Effective Oral
Communication Skills

Ability to Quickly Create and Apply
Ideas and Solutions

Responsibility, organization, ambition

Tolerance, patience, flexibility

COMPUTATIONAL SKILLS

Windows OS, Linux OS

Gaussian, GausView

AutoDock, Gromacs

LANGUAGES

English language

Area of research

Synthetic Organic Chemistry, Physical Organic Chemistry, Molecular Docking, Molecular Dynamics

Academic background

2018 PhD chemistry student

Department of Chemistry, Faculty of Science,
University of Kragujevac, Kragujevac, Serbia.

2017-2018 Master of Science, Chemistry

Master of Science degree, Research and Development,
Department of Chemistry, Faculty of Science, University
of Kragujevac, Kragujevac, Serbia.

Master thesis:

"Comparative study of antioxidant properties of 2,4,6-trihydroxypyridine and 1,3,5-trihydroxybenzene-kinetic DFT study", Average mark: **10.0**

2013-2017 Bachelor of Science, Chemistry

Bachelor of Science, Chemistry, Department of Chemical-
Technological Sciences, State University of Novi Pazar.

Final work: "Investigation of the antioxidant properties
of trihydroxypyridine"

Average mark: **9.69**

Work experience

AUG.2019 Research Trainee

Department of Chemistry, Faculty of Science,
University of Kragujevac, Kragujevac, Serbia.

JAN.2019 Research Trainee

JUL.2019 Bioengineering Research and Development Center,
"BioIRC", d.o.o.

2016-2017 Student demonstrator

Department of Chemical-Technological
Sciences, State University of Novi Pazar.

Interest



Project participation

The national project of the Ministry of Education, Science and Technological Development no. **172015** under title: “*Dynamics of nonlinear physicochemical and biochemical systems with modeling and their behavior under non-steady state conditions*”

Awards and prizes

2016-2017 Fund “*Dositeja*”, Ministry of Youth and Sports of the Republic of Serbia.

2017-2018 Fund “*Dositeja*”, Ministry of Youth and Sports of the Republic of Serbia.

Publications:

Category M50

Category M53

1. **Ž. Milanović**, J. Tošović, S. Marković, *Test za procenu ukupne antioksidativne aktivnosti zasnovan na kvantno mehničkim proračunima- QM-ORSA protokol*, Hemijski pregled, 2019 (60) , 32-36, ISSN: 04406826

2. S. Marković, S. Đorđević, I. Redžepović, **Ž. Milanović**, *Simuliranje hemijskih spektara pomoću softvera za molekulske modeliranje*, Hemijski pregled, 2019 (60), 90-95, ISSN: 04406826

Category M30

Category M34

1. **Ž. Milanović**, D. Milenković, Z. Marković; *Comparative study of antioxidant activities of catechol, protocatechuic acid and 3,4-dihydroxypyridine*; 4th South-East European Conference on Computational Mechanics, Kragujevac, Serbia, 2017, p.25. ISBN:978-86-921243-0-3

2. **Žiko Milanović**, Jelena Đorđević, Zoran Marković, Ana Amić, Svetlana Jeremić; *Inactivation of free radical species with selected triazoles*, Belgrade BioInformatics Conference 2018, Belgrade, Serbia, 2018, p.120, ISSN:2334-6590

3. Zoran Marković, **Žiko Milanović**, Dušan Dimić, Jasmina Dimitrić Marković, Marijana-Stanojević-Pirković, *The interaction of protonated octopamine and norepinephrine with β 1-adrenergic receptor: Molecular docking and dynamical simulation*, 8th International Conference on Computational Bioengineering, Belgrade, Serbia, 2018, p.71-72, ISBN 978-86-81037-75-1(UK).

4. Zoran S. Marković, Edina H.Avdović, **Žiko B. Milanović**, Dejan Milenković, Svetlana Jeremić, Srećko R.Trifunović, *Vibrational spectroscopy study of coumarine-derived ligand 3-(1-(o-toluidino)ethylidene)-chroman-2,4-dione: A combined theoretical and experimental investigation*, 8th International Conference on Computational Bioengineering, Belgrade, Serbia, 2018, p.85-86, ISBN 978-86-81037-75-1 (UK).

5. Zoran Marković, Sanida Šemović, **Žiko Milanović**, Ana Amić, Svetlana Jeremić, *Scavenger capacity of the 1,2,4-trihydroxyxanthone toward hydroxyl, hydroperoxyl and methylperoxyl radicals*, 8th International Conference on Computational Bioengineering, Belgrade, Serbia, 2018, p.87, ISBN 978-86-81037-75-1(UK).

Category M60

Category M63

1. Zoran Marković, Dženeta Numanović, Marko Antonijević, Dejan Milenković, Edina Avdović, **Žiko Milanović**; *Komparativna studija 7-hidroksikumarina i 6,7-dihidroksikumarina*; XXIV Savetovanje o biotehnologiji, Čačak, Srbija, 2019, str. 809. ISBN: 978-86-87611-68-9

2. Zoran Marković, Edina Avdović, Dejan Milenković, Dušan Dimić, Svetlana Jeremić, Jelena Đorović, **Žiko Milanović**; *Ispitivanje protein-ligand interakcija humane tirozil-DNK fosfodiesteraze 1 i 3-(1-(2-hidroksifenil)amino)etiliden)hroman-2,4-diona*; XXIV Savetovanje o biotehnologiji, Čačak, Srbija, 2019, str. 815. ISBN: 978-86-87611-68-9

3. **Žiko Milanović**, Zoran Marković; *Inhibitory effect of 3-(1-(3-hydroxypropylamino)ethylidene)chroman-2,4-dione on Epidermal Growth Factor Receptor (EGFR): Molecular docking and molecular dynamic study*; XI Conference of agronomy students, Čačak, Serbia, 2019, p.388-396, ISSN: 2334-9883

Category M64

1. **Ž. Milanović**, D. Milenković, Z. Marković; *Comparative study of antioxidant activities of trihydroxypyridines and pyrogallol*; 24th Conference of Serbian crystallographic society, Vršac, Serbia, 2017, p.23, ISBN:978-86-912959-3-6.

2. Edina Avdović, Jelena Đorović, Dejan Milenković, **Žiko Milanović**, Dušan Dimić, Jasmina Dimitrić Marković, Ljubinka Joksović, Ana Amić; *Antioksidativna aktivnost odabranih triazola; Drugi kongres biologa Srbije*, Srpsko biološko društvo, Kladovo, Srbija, 2018, str. 24. ISBN: 978-86-81413-08-1

3. **Žiko Milanović**, Edina Avdović, Srećko Trifunović, Svetlana Jeremić, Zoran Marković; *Investigation interaction between a palladium (II) complexes with a coumarin ligands and substance P receptor*; 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Serbia, 2019, p.168-169, ISBN: 978-86-909973-7-4.

4. **Žiko Milanović**, Edina Avdović, Srećko Trifunović, Zoran Marković; *Molecular docking and molecular dynamic investigation of interactions between thyroid hormone receptor alpha (TR-alpha) and new coumarine derivatives*; 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Serbia, 2019, p.170-171, ISBN: 978-86-909973-7-4.

5. Dejan Milenković, Ana Amić, Zoran Marković, **Žiko Milanović**; *Structure and reactivity of folic acid*; 7th International Congress of Serbian Society of Mechanics, Sremski Karlovci, Serbia, 2019, p.148-150, ISBN: 978-86-909973-7-4.5.