Izudin Redžepović | CV

- Born: 26 December 1993, Novi Pazar, Serbia
- Address: Department of Chemistry, Faculty of Science, University of Kragujevac, P. O. Box 60, 34000 Kragujevac, Serbia
- E-mails: izudin.redzepovic@pmf.kg.ac.rs / izudinredzepovic@hotmail.com
- Languages: Serbian, English
- Skills: Python, Gaussian, LaTeX
- Interests: Cheminformatics, Mathematical chemistry, Molecular modeling
- Networks:

Education

2017–Present **Chemistry Ph.D. student** — Faculty of Science, University of Kragujevac

- Thesis approved "Comparative investigation of eigenvalue–based molecular descriptors", advisor: prof. dr. Boris Furtula

2016–2017 **M.Sc. in Chemistry** — Faculty of Science, University of Kragujevac

- "Antioxidative activity of caffeic acid–mechanistic DFT study", advisor: prof. dr. Svetlana Marković / Average grade: 10.00

2012–2016 **B.Sc. in Chemistry** — State University of Novi Pazar

- Average grade: 9.54

Experience

2021– **Research assistant** — University of Kragujevac

- Ph.D. research

2017–2021 **Research trainee** — University of Kragujevac

- Ph.D. research

2018–Present **Student demonstrator** — University of Kragujevac

- Computers in Chemistry, Molecular modeling, Introduction to Cheminformatics

2015–2016 **Student demonstrator** — State University of Novi Pazar

- Computers in Chemistry, Proceeding measurment results, Organic stereochemistry

Awards

2018 **Best Master Student of Chemistry in academic 2016 / 17**

- Annual award of the Faculty of Science, University of Kragujevac

Papers

- **I. Redžepović**, Chemical applicability of Sombor indices, J. Serb. Chem. Soc. (2021).

- **I. Redžepović**, B. Furtula, Comparative study on structural sensitivity of eigenvalue–based molecular descriptors, J. Math. Chem. (2021).

- **I. Redžepović**, B. Furtula, Predictive potential of eigenvalue–based topological molecular descriptors, J. Comput. Aided Mol. Des. 34 (2020) 975–982.

- **I. Redžepović**, S. Marković, Theoretical study on the heat of formation of some polycylic aromatic hydrocarbons, Chem. Pap. 74 (2020) 829–836.

- **I. Redžepović**, B. Furtula, On degeneracy of $\mathcal{A}$–eigenvalue–based molecular descriptors and r–equienergetic chemical trees, MATCH Commun. Math. Comput. Chem. 84 (2020) 385–397.

- **I. Redžepović**, B. Furtula, Resolvent energy and Estrada index of benzenoid hydrocarbons, J. Serb. Soc. Comput. Mech. special issue (2020) 37–44.

- **I. Redžepović**, Y. Mao, Z. Wang, B. Furtula, Steiner degree distance indices: Chemical applicability and bounds, Int. J. Quantum Chem. 120 (2020) #e26209.

- **I. Redžepović**, B. Furtula, I. Gutman, Relating total $\pi-$electron energy of benzenoid hydrocarbons with HOMO and LOMO energies, MATCH Commun. Math. Comput. Chem. 84 (2020) 229–237.

- **I. Redžepović**, B. Furtula, On relationships of eigenvalue–based topological molecular descriptors, Acta Chim. Slov. 67 (2020) 312–318.

- I. Gutman, **I. Redžepović**, B. Furtula, Two stability criteria for benzenoid hydrocarbons and their relation, Croat. Chem. Acta 92 (2019) 473–475.

- S. Marković, **I. Redžepović**, B. Furtula, Dependence of the enthalpy of formation of phenols on molecular structure–semiempirical study, Polycycl. Aromat. Compd. (2019).

- **I. Redžepović**, S. Marković, B. Furtula, On structural dependence of enthalpy of formation of catacondensed benzenoid hydrocarbons, MATCH Commun. Math. Comput. Chem. 82 (2019) 663–678.

- A. Gligorijević, S. Marković, **I. Redžepović**, B. Furtula, Application of spectral graph theory on the enthalpy change of formation of acyclic saturated ketones, J. Serb. Chem. Soc. 83 (2018) 1339–1349.

- **I. Redžepović**, S. Marković, J. Tošović, Antioxidative activity of caffeic acid–mechanistic DFT study, Kragujevac J. Sci. 39 (2017) 109–122.

Conferences

- **I. Redžepović**, S. Marković, B. Furtula, Graph theory based model for the enthalpy of formation of benzenoid hydrocarbons, 8th International Conference on Computational Bio-engineering (ICCB), September 4–6 2019, Belgrade, T.4.6 ICCB 2019 Proceedings

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- A. Gligorijević, S. Marković, **I. Redžepović**, B. Furtula, Dependence of ΔHf of ketones on structural properties–computational modeling, Sixth Conference of Young Chemists of Serbia, 27th October 2018, Belgrade, TH06 PE 5. Book of abstracts

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- **I. Redžepović**, S. Marković, J. Tošović, Theoretical investigation of antioxidative activity of caffeic acid, 4th South-East European Conference on Computational Mechanics (SEECCM), July 03–04 2017, Kragujevac, T.2.1., 24. Book of abstracts

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