

PUBLIKACIJE U NAUČNIM ČASOPISIMA

Radovi indeksirani u Web of Science – Current Contents

1. **Zahirović, A.**, Žilić, D., Pavelić, S. K., Hukić, M., Muratović, S., Harej, A., & Kahrović, E. "Type of complex–BSA binding forces affected by different coordination modes of alliin in novel water-soluble ruthenium complexes." *New Journal of Chemistry* 43 (2019): 5791-5804.
2. Muzika, Višnja, Samra Čustović, Selma Aličelebić, Esad Čosovic, **Adnan Zahirović** & Emira Kahrović. "Dinuclear ruthenium (II) Schiff base complex: a first in vivo study in Swiss albino mice" *Bratislavske lekarske listy* 120(1) (2019): 26-34.
3. **Zahirović Adnan**, Osmanković Irnesa, Turkušić Emir and Kahrović Emira. "Improved method for spectrophotometric determination of ruthenium using 1,10-phenantroline: Applications for analysis of complex compounds." *Analytical Methods*, 10(42) (2018): 5078-5083.
4. Kahrović, Emira, **Adnan Zahirović**, Aleksandar Višnjevac, Irnesa Osmanković, Emir Turkušić and Harun Kurtagić. "Chalcone and Flavonol Copper(II) Complexes Containing Schiff Base Co-Ligand: Synthesis, Crystal Structures and Catecholase-like Activity." *Croatica Chemica Acta*, 91(2), (2018): 1-13.
5. **Zahirović, Adnan**, Emira Kahrović, Marina Cindrić, Sandra Kraljević Pavelić, Mirsada Hukić, Anja Harej, and Emir Turkušić. "Heteroleptic ruthenium bioflavonoid complexes: From synthesis to in vitro biological activity." *Journal of Coordination Chemistry* 70, no. 24 (2017): 4030-4053.
6. Turkušić, Emir, Safeta Redžić, Emira Kahrović, and **Adnan Zahirović**. "Electrochemical Determination of Adrenaline at Ru (III) Schiff Base Complex Modified Carbon Electrodes." *Croatica Chemica Acta* 90, no. 2 (2017): 1-8.
7. Kahrović, Emira, **Adnan Zahirović**, Šeherzada Kadrić, Emir Turkušić, Irnesa Osmanković, and Huriya Džudžević Čančar. "Structural feature of calf thymus deoxyribonucleic acid–ruthenium (III) interaction in aqueous solution by difference Fourier transformed infrared spectroscopy." *Spectroscopy Letters* 50, no. 8 (2017): 426-431.
8. Kahrović, Emira, **Adnan Zahirović**, Sandra Kraljević Pavelić, Emir Turkušić, and Anja Harej. "In vitro anticancer activity of binuclear Ru (II) complexes with Schiff bases derived from 5-substituted salicylaldehyde and 2-aminopyridine with notably low IC50 values." *Journal of Coordination Chemistry* 70, no. 10 (2017): 1683-1697.
9. Redžić, Safeta, Emira Kahrović, **Adnan Zahirović**, and Emir Turkušić. "Electrochemical Determination of Dopamine with Ruthenium (III)-Modified Glassy Carbon and Screen-Printed Electrodes." *Analytical Letters* 50, no. 10 (2017): 1602-1619.
10. Pazalja, Mirha, Emira Kahrović, **Adnan Zahirović**, and Emir Turkušić. "Electrochemical sensor for determination of L-cysteine based on carbon electrodes modified with Ru (III) Schiff base complex, carbon nanotubes and Nafion." *Int. J. Electrochem. Sci* 11 (2016): 10939-52.
11. Kahrović, Emira, **Adnan Zahirović**, Emir Turkušić, and Sabaheta Bektaš. "A Dinuclear Ruthenium (II) Schiff Base Complex with Dissimilar Coordination: Synthesis, Characterization, and Biological Activity." *Zeitschrift für anorganische und allgemeine Chemie* 642, no. 6 (2016): 480-485.
12. Ljubijankić, Nevzeta, **Adnan Zahirović**, Emir Turkušić, and Emira Kahrović. "DNA binding properties of two ruthenium (III) complexes containing Schiff bases derived from salicylaldehyde: Spectroscopic and electrochemical evidence of CT DNA intercalation." *Croatica Chemica Acta* 86, no. 2 (2013): 215-222.

Radovi indeksirani u Scopus, Ebsco, CAS i dr. bazama sličnog nivoa

1. Eminovic Izet, Emira Kahrovic, Aner Mesic, Emir Turkusic, Dzenana Kargic, **Adnan Zahirovic**, and Zana Dolicanin. "Cytogenotoxic effects of two potential anticancer Ruthenium (III) Schiff Bases complexes." *Journal of Health Sciences* 6, no. 2 (2016).
2. Kahrović Emira, Sabaheta Bektaš, Emir Turkušić, and **Adnan Zahirović**. "Evidence on antimicrobial activity of Sodium dichloro-bis [N-phenyl-5-chlorosalicylideneiminato-N, O] ruthenate (III) against gram positive bacteria." *Der Pharma Chemica* 8(6), (2016): 174-178.
3. **Zahirović Adnan**, Turkušić Emir, Kahrović Emira. "Bis(iminato)ruthenates(III): Correlation of Half-wave Potential and Hydrolysis Constant with Electronic Effects of Substituent", *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 45, (2015) 1-8.
4. Sead Ljubijankić, **Adnan Zahirović**, Mahira Memišević, Nevzeta Ljubijankić, Emira Kahrović, „Spectrophotometric determination of binding constants of Ru(III) salicylideneimine complexes with CT DNA“, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 43 (2014) 5-10.
5. Kahrovic, Emira, **Adnan Zahirovic**, and Emir Turkusic. "Calf thymus DNA intercalation by anionic Ru (III) complexes containing tridentate Schiff bases derived from 5-X-Substituted salicylaldehyde and 2-Aminophenol." *Journal of Chemistry and Chemical Engineering* 8, no. 4 (2014).

PUBLIKACIJE NA NAUČNIM KONFERENCIJAMA

Svjetske i međunarodne konferencije

1. **Adnan Zahirović**, Emir Turkušić, Irnesa Osmanković, Aleksandar Višnjevac and Emira Kahrović, Thermodynamic Aspect of Dicopper(II) Chalcone Complexes Interaction with CT DNA, Pure and Applied Chemistry International Conference 2019, Bangkok, Thailand, February 7 – 8, 2019.
2. Aleksandar Višnjevac, **Adnan Zahirović**, Irnesa Osmanković, Emir Turkušić, Emira Kahrović: *Crystal structures and bioactivity studies of four novel chalcone and flavonol copper(II) complexes containing Schiff base co-ligand*. 31st European Crystallographic Meeting, Oviedo, Spain, Aug. 22nd to 27th, 2018 (poster).
3. **Adnan Zahirović**, Emira Kahrović, Marina Cindrić, Emir Turkušić, Irnesa Svraka. *Synthetic Approaches to First Ruthenium – Quercetin Complexes: Insight into Design, Reactivity towards CT DNA and Antioxidant Activity*. 13th European Biological Inorganic Chemistry Conference, Budapest, Hungary, August 28 – September 01 2016, Book of Abstracts, p. 301 (P148).
4. Emira Kahrović, **Adnan Zahirović**, Šeherzada Kadrić, Emir Turkušić. *Structural View on Ru(III)-CT DNA Interaction in Aqueous Solution by FTIR Spectroscopy*. 13th European Biological Inorganic Chemistry Conference, Budapest, Hungary, August 28 – September 01 2016, Book of Abstracts, p. 184 (P031).
5. **Adnan Zahirović**, Sabaheta Bektaš, Ilda Graca, Maida Puška, Emir Turkušić, Emira Kahrović, *A new complex of Ru(III) with N-(2-pyridyl)salicylideneimine: DNA binding properties and activity against Staphylococcus Aureus*, 12 th European Biological Inorganic Chemistry Conference, Zurich, Switzerland, August 24-28, 2014, J. Biol. Inorg. Chem. (2014), 19 (Suppl 2), S790.
6. **Adnan Zahirovic**, Sabina Begic-Hairlahovic, Nevzeta Ljubijankic, Emir Turkusic, Emira Kahrovic, *The Spectroscopic characterization of some Ru(III) complexes with Schiff bases derived from salicylaldehyde and investigation of interaction with CT DNA*, International Turkish Congress on Molecular Spectroscopy, Istanbul, Turkey, September 15-20, 2013, Book of Abstracts, Applied Spectroscopies – P7, p. 88.

7. Emira Kahrović, Emir Turkušić, Nevzeta Ljubijankić, Sabina Begić, Vera Dugandžić and **Adnan Zahirović** "The Spectroscopic Investigations of a Ruthenium Schiff Base Complex with CT DNA", 40 International Congress on Coordination Chemistry, Valencia, Spain, September 9-13, 2012. Book of Abstracts, MS.D2.P.601, C404-C405.

Regionalne i domaće konferencije

1. **Adnan Zahirović**, Emir Turkušić, Emira Kahrović. *Oxidative Decomposition of Quercetin in Presence of Ruthenium(III)*. 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, 21-23 October 2016, Book of Abstracts, p. 86
2. Inesa Svraka, Šeherzada Kadrić, **Adnan Zahirović**, Emira Kahrović. *FT-IR Spectroscopy Investigation of Cobalt(II) – CT DNA Interaction in Water Solution*. 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, 21-23 October 2016, Book of Abstracts, p. 78
3. H. Džudžević-Čančar, A. Dedić, N. Bibić, E. Kahrović, I. Tahirović, **A. Zahirović**, J. Đeđibegović. *Extraction and Spectroscopic Characterization of Oleic Acid from Refined and Unrefined Olive Oil*. 2nd Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, 21-23 October 2016, Book of Abstracts, p. 117
4. Nevzeta Ljubijankić, **Adnan Zahirović** and Emira Kahrović, *Spectroscopic evidence on interaction of ruthenates (III) derived from N-low alkyl-5-substituted salicylideneimine with calf thymus DNA*, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, 10-12 October 2014, Book of Abstracts, p.87
5. Sead Ljubijankić, **Adnan Zahirović**, Mahira Memišević, Nevzeta Ljubijankić and Emira Kahrović, *Spectrophotometric determination of binding constants of Ru(III) salicylideneimine complexes with CT DNA*, Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation, Sarajevo, Bosnia and Herzegovina, 10-12 October 2014, Book of Abstracts, p.89
6. Emir Turkušić, Emira Kahrović, Nevzeta Ljubijankić, **Adnan Zahirović**, *Hemijski senzori i biosenzori u kontroli i zaštiti okoliša i zdravlja*, Drugi naučno-stručni skup sa međunarodni učešćem "5. juni - Svjetski dan zaštite okoliša", Bihać, Bosna i Hercegovina, 4 - 5 juni 2014, Zbornik sažetaka, p. 36.
7. **Adnan Zahirovic**, Ilda Graca, Emir Turkusic, Emira Kahrovic, *Synthesis and characterization of new ruthenium (III) complex with tridentate dibasic Schiff base*, X Meeting of Young Chemical Engineers, Zagreb, Croatia, 20 – 21 February 2014, oral presentation, Book of Abstracts, p. 56.
8. **Adnan Zahirović**, Nevzeta Ljubijankić, *Synthesis and characterization of a new anionic compound dichlorobis(N-buthylsalicylideniminato-O,N)ruthenate(III)*, IX meeting of young chemical engineers, Zagreb, Croatia, February 16-17, 2012, Book of Abstracts, p. 61.