





PERSONAL INFORMATION



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 29/07/1954, Travnik, Bosnia and Herzegovina
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RADNO ISKUSTVO

- 1979 -2021 Redovni profesor, naučna oblast Anorganska hemija, posljednji redovni izbor Univerzitet u Sarajevu, Prirodno-matematički fakultet, Odsjek za hemiju
- 2022 Profesor emeritus Univerzitet u Sarajevu, Prirodno-matematički fakultet
- 1997 Doktor hemijskih nauka
Univerzitet u Sarajevu, Prirodno-matematički fakultet
- 1985-1988 Magistar prirodnih znanosti (Anorganska kemija)
Sveučilište u Zagrebu, Prirodoslovno-matematički fakultet, Hrvatska
- 1973-1977 Diplomirani inženjer hemije
Univerzitet u Sarajevu, Prirodno-matematički fakultet

Maternji jezik Bosanski
 Drugi jezici Engleski (B2), Francuski (A2)

OBRAZOVANJE

NAUČNO-ISTRAŽIVAČKI I STUDIJSKI BORAVCI

Karl Franzens Univerzitet , Graz, Austrija, studijski boravak 1995, mjesec dana

Karl Franzens Univerzitet , Graz, Austrija, naučno-istraživački boravak, 1996, mjesec dana

Univerzitet u Firenci, Italija, Odsjek za hemiju, Laboratorij za anorgansku i bioanorgansku hemiju, naučno-istraživački boravak, 1999 god., dva mjeseca

Univerzitet u Firenci, Italija, Odsjek za hemiju, Laboratorij za anorgansku i bioanorgansku hemiju, naučno-

istraživački boravak, 2002 god., mjesec dana

PEDAGOŠKA AKTIVNOST

I ciklus:

Anorganska hemija I, Anorganska hemija II, Anorganske sinteze, Hemija kompleksnih jedinjenja, Mehanizmi anorganskih reakcija, Bioanorganska hemija, Nomenklatura anorganskih jedinjenja, Infracrvena spektroskopija anorganskih jedinjenja, Kompleksna jedinjenja u okolišu, Anorganska hemija (Farmaceutski fakultet), Anorganska hemija sa materijalima (Interdisciplinarni studij Konzervacija i restauracija ALU-PMF) Dijagnostika anorganskih jedinjenja (Interdisciplinarni studij Konzervacija i restauracija ALU-PMF)

II ciklus:

Strukturalna anorganska hemija, Dijagnostika u funkciji izabranog artefakta (Interdisciplinarni studij Konzervacija i restauracija ALU-PMF)

III ciklus:

Hemijski seminar, Razvoj i primjena metalnih kompleksa

Mentorstva

Doktorati / III ciklus: 6 doktorskih teza (Anorganska hemija)

BIBLIOGRAFIJA

Univerzitetska knjiga

Emira Kahrović, **Anorganska hemija**, Bemust, Sarajevo, 2005; ISBN 9958-725-73-8; COBIS.BH-ID 14150406

Udžbenici

Emira Kahrović, **Uvod u eksperimentalnu anorgansku hemiju**, Prirodno- matematički fakultet, 2011; ISBN 978-9958-592-21-8; COBIS.BH-ID 19115270

Emira Kahrović, Nevzeta Ljubijankić, **Praktikum anorganske hemije**, Prirodno-matematički fakultet, 2011; ISBN 978-9958-592-20-1; COBIS.BH-ID 19080454

Naučna knjiga

Emira Kahrović, **Ruthenium Compounds with Schiff Bases: Design and Promising Applications of Salicylideneimine Complexes** In: *Ruthenium: Synthesis, Physicochemical Properties and Applications*; Gary P. Keeler, Ed.; NOVA Publishers Inc., New York, 2014; ISBN: 978-1-63321-657-0

NAUČNO-ISTRAŽIVAČKI RAD

Naučni radovi (Web of Science)

1. Osmanković, I., Turkušić, E., Zahirović, A., Kralj, M., Uzelac, L, **Kahrović, E.** „CT DNA, BSA and Antiproliferative Activity of Ru(II) Bipyridine Complexes containing Schiff Bases derived from Amino Acids“. *Croatica Chemica Acta*, 94(3), (2021): P1-P10. <https://doi.org/10.5562/cca3872>
2. Zahirović, A., **Kahrović, E.** „Electrochemical evidence for catechol oxidation by ruthenium(II) organometallics of 2'-hydroxychalcones.“ *Monatshefte für Chemie-Chemical Monthly*, 152(10), (2021): 1193-1200. <https://doi.org/10.1007/s00706-021-02842-3>
3. Memišević, M., Zahirović, A., Višnjevac, A., Osmanović, A., Žilić, D., Kralj, M., Muratović, S., Martin-Kleiner, I., Završnik, D., **Kahrović, E.** „Copper(II) salicylideneimine complexes revisited: From a novel derivative and extended characterization of two homologues to interaction with BSA and antiproliferative activity.“ *Inorganica Chimica Acta*, 525 (2021): 120460. <https://doi.org/10.1016/j.ica.2021.120460>
4. Zahirović, A., Roca, S., Višnjevac, A., **Kahrović, E.** „Ruthenium Organometallics of Chloro-Substituted 2'-Hydroxychalcones—A Story of Catecholase Biomimetics beyond Copper.“ *Journal of Organometallic Chemistry*, 495 (2021): 121863. <https://doi.org/10.1016/j.jorganchem.2021.121863>
5. Zahirović, A., Roca, S., **Kahrović, E.**, Višnjevac, A. „Low DNA and high BSA binding affinity of cationic ruthenium (II) organometallic featuring pyridine and 2'-hydroxychalcone ligands.“ *Journal of Molecular Structure*, 1236 (2021): 130326. <https://doi.org/10.1016/j.molstruc.2021.130326>
6. 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. <https://doi.org/10.1039/C9NJ00826H>
7. **Kahrović, E.**, Jakovljević, V., Zahirović, A. „FTIR investigation of pigments and binder of painted walls in heritage monuments.“ *Journal of Science and Arts*, 20(3) (2020): 697- 704. <https://doi.org/10.46939/J.Sci.Arts-20.3-b01>
8. Muzika, V., Čustović, S., Alićelebić, S., Čosović, E., Zahirović, A., **Kahrović, E.** „Dinuclear ruthenium(II) Schiff base complex: a first *in vivo* study in Swiss albino mice“. *Bratislava Medical Journal*, 120(1) (2019): 26–34. doi: 10.4149/BLL_2019_004
9. Zahirović, A., Osmanković I., Turkušić E., **Kahrović E.** „Improved method for spectrophotometric determination of ruthenium using 1,10-phenantroline: Applications for analysis of complex compounds.“ *Analytical Methods*, 10 (2018): 5078-5083. <https://doi.org/10.1039/C8AY01755G>
10. **Kahrović, E.**, Zahirović A., Višnjevac A., Osmanković, I., Turkušić E., Kurtagić, H. „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. <https://doi.org/10.5562/cca3334>
11. Zahirović, A., **Kahrović, E.**, Cindrić, M., Kraljević, Pavelić S., Hukić, M., Harej, A., Turkušić, E. "Heteroleptic ruthenium bioflavonoid complexes: From synthesis to *in vitro* biological activity." *Journal of Coordination Chemistry*, 70(24) (2017): 4030-4053. <https://doi.org/10.1080/00958972.2017.1409893>

12. Turkušić, E., Redžić, S., **Kahrović, E.**, Zahirović, A. "Electrochemical Determination of Adrenaline at Ru (III) Schiff Base Complex Modified Carbon Electrodes." *Croatica Chemica Acta*, 90(2), (2017): 1-8. DOI: 10.5562/cca3177
13. **Kahrović, E.**, Zahirović, A., Kadrić, Š., Turkušić, E., Osmanković, I., Džudžević Čančar, H. "Structural feature of calf thymus deoxyribonucleic acid–ruthenium (III) interaction in aqueous solution by difference Fourier transformed infrared spectroscopy." *Spectroscopy Letters* 50(8) (2017): 426-431. <https://doi.org/10.1080/00387010.2017.1350720>
14. **Kahrović, E.**, Zahirović, A., Kraljević Pavelić, S., Turkušić, E., Harej, A. "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(10) (2017): 1683-1697. <https://doi.org/10.1080/00958972.2017.1308503>.
15. Redžić, S., **Kahrović, E.**, Zahirović, A., Turkušić, E. "Electrochemical Determination of Dopamine with Ruthenium (III)-Modified Glassy Carbon and Screen-Printed Electrodes." *Analytical Letters* 50(10) (2017): 1602-1619. <http://dx.doi.org/10.1080/00032719.2016.1241799>.
16. Pazalja, M., **Kahrović, E.**, Zahirović, A., Turkušić, E. "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. doi: 10.20964/2016.12.86.
17. **Kahrović, E.**, Zahirović, A., Turkušić, E., Bektaš, S. "A Dinuclear Ruthenium (II) Schiff Base Complex with Dissimilar Coordination: Synthesis, Characterization, and Biological Activity." *Zeitschrift für anorganische und allgemeine Chemie* 642(6) (2016): 480-485. DOI: 10.1002/zaac.201600008
18. **Kahrović, E.**, Kraljević Pavelić, S.. "Antiproliferative effect and selectivity of sodium dichloro-bis [n-phenyl-5-chloro-salicylideneiminato-n, o] ruthenate (iii) in vitro." *International Journal of Pharmacy and Pharmaceutical Sciences* 7(1) (2015): 86.
19. Ljubijankić, N., Zahirović, A., Turkušić, E., **Kahrović, E.** "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 (2) (2013): 215-222. <http://dx.doi.org/10.5562/cca2216>
20. Turkusic, E., **Kahrović, E.** . "Development of new low potential amperometric sensor for L-cysteine based on carbon ink modification by Tetraethylamonium dichloro-bis [N-phenyl-5-bromosalicylideniminato-N, O] ruthenat (III)." *Technics Technologies Education Management*, 7(3) (2012): 1300-1303.
21. **Kahrović, E.**, Turkusic, E. "New Ruthenium Complexes with Schiff Bases as Mediators for the Low Potential Amperometric Determination of Ascorbic Acid, Part II: Voltametric and Amperometric evidence of mediation with Bromoderivative of Tetraethylamonium dichloro-bis [N-phenyl-5-halogeno-salicylideniminato-N, O] ruthenat (III)." *HealthMed* 6(3) (2012): 1046-1049.
22. **Kahrović, E.**, Turkusic, E., Ljubijankic, N., Dehari, S., Dehari, D., Bajsman, A. "New Ruthenium Complexes with Schiff Bases as Mediators for the Low Potential Amperometric Determination of Ascorbic Acid, Part I: Voltametric and Amperometric evidence of

- mediation with Tetraethylammonium dichloro-bis [N-phenyl-5-hloro-salicylideniminato-N, O] ruthenat (III)." *HealthMED* 6(2) (2012): 699-702.
23. **Kahrović, E.** "Chemical feature of inorganic compounds as anticancer agents." *HealthMED* 5(5) (2011): 1112-1116.
 24. **Kahrović, E., Bektasević, M., Turkusic, E.** "Ruthenium (III) Chloride complex with Salicylaldehyde: Synthesis, characterization and interaction with albumin and DNA." *Technics Technologies Education Management* 6(3) (2011): 692-697.
 25. Turkusic, E., Begic, S., **Kahrović, E., Kalcher, K.** "Amperometric Determination of Glucose with FeO and Glucose Oxidase Bulk-Modified Screen-Printed Carbon Ink Biosensor." *HealthMED* 5(5) (2011): 1117-1122.
 26. Turkusic, E., Begic, S., **Kahrović, E., Kalcher, K.** "Amperometric determination of hydrogen peroxide with FeO bulk-modified screen-printed carbon ink sensor." *HealthMED* 5 (2011): 949-955.
 27. Turkusic, E., **Kahrović, E., Heljić, B., Kudumovic, A., Kalcher, K.** "Determination of total inorganic arsenic in ground water samples in Canton Sarajevo with a Field Spectrometric Device based on Gutzeit reaction." *HealthMED* 5(4) (2011): 990-995.
 28. **Kahrović, E.** "Synthesis and vibrational spectrum of polycrystalline beta-lead azide." *Technics Technologies Education Management* 6(2) (2011): 318-322.
 29. **Kahrović, E., Dehari, S., Dehari, D., Reci, H., Begic, S., Ljubijankić, N.** "Synthesis and characterization of new Ru (III) complexes with monobasic (NO) and dibasic (ONO) Schiff bases derived from salicylaldehydes." *Technics Technologies Education Management* 5 (4) (2010): 799-803.
 30. **Kahrović, E., Molčanov, K., Tušek-Božić, Lj., Kojić-Prodić, B.** "New complexes of Mo (V) with Schiff bases: Crystal structure of butylammonium di- μ -oxo- μ -acetato-bis [(N-butylsalicylideniminato-N,O)oxomolybdenum (V)] benzene, acetic acid solvate." *Polyhedron* 25(12) (2006): 2459-2464. doi:10.1016/j.poly.2006.02.008
 31. Turkusic, E., Kalcher, J., **Kahrović, E., Beyene, N. W., Moderegger, H., Sofic, E., Begic, S., Kalcher, K.** "Amperometric determination of bonded glucose with an MnO₂ and glucose oxidase bulk-modified screen-printed electrode using flow-injection analysis." *Talanta* 65 (2) (2005): 559-564. doi:10.1016/j.talanta.2004.07.023
 32. **Kahrović, Emira, Pierluigi Orioli, Bruno Bruni, Massimo Di Vaira, and Luigi Messori.** "Crystallographic evidence for decomposition of dimethylformamide in the presence of ruthenium (III) chloride." *Inorganica Chimica Acta* 355 (2003): 420-423. doi:10.1016/S0020-1693(03)00312-8
 33. Reynolds, W. L., M. Glavas, and **E. Dzelilovic.** "Assisted aquation of chloropentaamminecobalt (III) ion in different media." *Inorganic Chemistry* 22(13) (1983): 1946-1949.

Radovi u časopisima indeksiranim u drugim bazama

34. Eminovic, I., **Kahrović, E., Mešić, A., Turkušić, E., Kargić, Đ., Zahirović, A., Doličanin, Z.** "Cytogenotoxic effects of two potential anticancer Ruthenium (III) Schiff Bases

- complexes." *Journal of Health Sciences* 6(2) (2016) 112-120. DOI: <http://dx.doi.org/10.17532/jhsci.2016.357>
35. Veljović, E., Špirtović-Halilović, S., **Kahrović, E.**, Roca, S., Novaković, I., Osmanović, A., Salihović, M. et al. "Solvent-free Synthesis and Antibacterial Activity of 14-Aryl Substituted Dibenzoxanthene Derivatives." *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 46 (2016): 33-38.
 36. **Kahrović, E.**, Turkušić, E., Zahirović, A. Bektaš, S., Džudžević Čančar, H. "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.
 37. Zahirović, A., Turkušić, E., **Kahrović, E.** "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.
 38. Begić-Hairlahović, S., **Kahrović, E.**, Turkušić, E. „Synthesis, Characterization and Interaction with CT DNA of Novel Cationic Complex Ru(III) with Indazole and Schiff Base Derived from 5-Chlorosalicylaldehyde“, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 43 (2014) 15-20.
 39. Ljubijankić, S., Zahirović, A., Memišević, M., Ljubijankić, N., **Kahrović, E.** „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.
 40. Olovčić, A, Memić, M., Žero, S., Huremović, J., **Kahrović, E.** "Chemical Analysis of Iron Slags and Metallic Artefacts from Early Iron Age." *International Research Journal of Pure and Applied Chemistry* 4(6) (2014): 859.
 41. Bajsman A., Turkušić E., Vuković A., Zukić S., Zukanović A., **Kahrović E.** „Analysis of metals released from dental amalgam alloy using inductively coupled plasma-mass spectrometry“, *Stomatological review* 3 (1) (2014) 17-28.
 42. Kahrović, E., Zahirović A., Turkušić. "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(4) (2014) 335-343.
 43. Dugandžić, V., **Kahrović, E.** "Synthesis and Characterization of Novel Chloro-Ru(III) complex with formamide“, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 39 (2012) 21-23.
 44. Turkušić, E., Milićević, V.; **Kahrović, E.**, et al. "Amperometric sensor for determination of L-ascorbic acid based on carbon electrode modified by MnO₂", *Pharmacia* (1999)14-18.
 45. Glavaš, M., **Dželilović (Kahrović), E.** "Thermolysis of coordination compounds of zinc and cadmium with N-methylformamide", *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina BiH*, 2 (1977-78) 77.

Konferencijska saopštenja

Publikacije na međunarodnim konferencijama

1. Adnan Zahirović, **Emira Kahrović**, Marina Cindrić, Emir Turkušić, Inesa 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).
2. **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).
3. Safeta Redžić, **Emira Kahrović**, Mithat Asotić, Emir Turkušić. *New amperometric sensor for dopamine in the presence of ascorbic acid using Sodium bis[N-2-oxyphenyl-5-bromosalicylideneiminato-ONO]ruthenate(III)/MWNTs/Nafion modified GC electrode*. Pure and Applied Chemistry International Conference, Bangkok, Thailand, February 2016, Book of Abstracts.
4. Mirha Pazalja, **Emira Kahrović** and Emir Turkušić, *Development of a new amperometric sensor for L-cysteine and 2,5-dimercapto-1,3,4-thiadiazole based on carbon electrode modified with sodium dichloro-bis[N-phenyl-5-bromosalicylideneiminato-N,O]ruthenate(III) complex*, Fifth Regional Symposium on Electrochemistry – South -East Europe (RSE- SEE), Pravets, Bulgaria, 7-11 June 2015, Book of Abstracts.
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, Switzerlan, August 24-28, 2014, J. Biol. Inorg. Chem. (2014), 19 (Suppl 2), S790.
6. Adnan Zahirovic, Sabina Begic-Hairlahovic, Nevzeta Ljubijankic, Emir Turkusic, **Emira Kahrović**, *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. Mejra Bektašević, **Emira Kahrović** „*Synthesis and Characterization of New Ruthenium (III) Salicylaldehydato Complexes*“, 44th World Chemistry Congress, IUPAC 2013, Istanbul, Turkey, August 11-16, 2013
8. **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.
9. **E. Kahrović**, S. Dehari, D. Dehari, S. Jusufi, H. Reci, S. Begić and N. Ljubijankić „*Ruthenium (III) complexes with bidentate Schiff bases. Preliminary interaction of Tetraethylamoniumdichloro-bis[N-phenyl-4-bromo-salicylideniminato-N,O] ruthenat(III) with DNA*“, 14th International Conference on Biological Inorganic Chemistry, Nagoya, Japan, July 25-30, 2009.

10. D. Dehari, S. Jusufi, B. Korca, **E. Kahrović**, S. Dehari, M. Ismaili, "*The heterogeneous equilibrium of Al(III) ion with aspartic acid and asparagines*", Third International Conference of Water Observation and Information System for Decision Support, 27 to 31 May 2008, Ohrid, Republic of Macedonia
11. A. Bajsman, M. Malić, **E. Kahrović**, S. Begić, A. Konjhodžić - Prečić, E. Turkusić and K. Kalcher, "*Electrochemical analysis of corrosion behaviour of dental amalgams*", 12th International Conference on Electroanalysis, ESEAC 2008 Prague, June 16-19, 2008.
12. **E. Kahrović**, S. Begić, "*Ru(III)-Acetonitrile adduct as potential anticancer: Synthesis, spectral characterisation and DNA binding*", 13th International Conference on Biological Inorganic Chemistry, Vienna, Austria, July 15-20, 2007.
13. **E. Kahrović**, S. Begić, V. Karavdić, N. Proha and E. Torlak, "*Assisted ligation of RuCl₃ with acetonitrile in the presence of dimethylacetamide and dimethylformamide*", 37th International Conference on Coordination Chemistry, 13-18th July 2006, Cape Town, South Africa
14. E. Turkušić, **E. Kahrović**, E. Sofić, S. Begić, K. Kalcher, "*Amperometric determination of glutamate with nafion film immobilized glutamate oxidase and manganese dioxide bulk-modified screen printed electrode*", Annual Meeting of the International Society of Electrochemistry (ISE), Sao Paulo, Brasil, August 31 to September 5th, 2003
15. E. Turkušić, J. Kalcher, **E. Kahrović**, K. Kalcher, E. Omanović "*Amperometric Determination of Bonded-Glucose With a MnO₂ and Glucose Oxidase Double Bulk-Modified Screen Printed Electrode and glucosidase from Aspergillus niger Using Flow Injection Analysis*", Elsevier Science Oxford, The Seventh World Congress on Biosensors, Kyoto, Japan, 15-17 May 2002
16. W. L. Reynolds, M. Glavaš and **E. Dželilović (Kahrović)**, "*Mechanisms of Substitution Reaction of ligandopentaaminocobalt(III) Complexes*", The 183 American Chemical Society Meeting, Las Vegas (Nevada), USA, 28 March-2 April 1982.

Publikacije na domaćim i regionalnim konferencijama

17. 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
18. Irnesa 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
19. H. Džudžević-Čančar, A. Dedić, I. Lakota, S. Muratović, A. Alispahić, Š. Mandal, **E. Kahrović**. *Synthesis, Structural Characterization and Effects of Modified Synthetic Methods on the Yield of Benzyl Alcohol*. 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. 113

20. H. Džudžević-Čančar, A. Dedić, N. Bibić, **E. Kahrović**, I. Tahirović, A. Zahirović, J. Deđibegović. *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
21. Sabina Begić-Hairlahović, **Emira Kahrović** and Emir Turkušić, *Synthesis and characterization of novel cationic complexes Ru(III) with N-heterocycles and Schiff base derived from salicylaldehyde*, 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.88
22. Redžić Safeta, **Emira Kahrović** and Emir Turkušić, *Development of a New Amperometric Sensor for Dopamine Based on the Carbon Electrode Modified with Ru(III) Complex*, 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.84
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28. Vera Dugandžić, **Emira Kahrović** "Synthesis and characterization of new chloro-Ru(III) complex with formamide", IX. meeting of young chemical engineers, Zagreb, Croatia, February 16-17, 2012. Book of Abstracts p. 129

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31. **E. Kahrović**, “*Synthesis of β -lead(II) azide by Diffusion and Some Structural Investigation*”, 6th Croatian-Slovenian Crystallographic Meeting, Umag, Croatia, June 19-21, 1997.
32. **E. Kahrović**, A. Hadžović, “*Structural Research of Mo(V) Complexes With N-Substituted Salicylidenedimines*”, 6th Croatian-Slovenian Crystallographic Meeting, Umag, Croatia, June 19-21, 1997
33. B. Kamenar, B. Korpar-Čolig, **E. Kahrović**, “*Novi spojevi molibdena (V) sa N-supstituiranim salicilideniminima*”, XI sastanak kemičara Hrvatske, Zagreb, 11-13 veljače, 1989.
34. M. Glavaš, **E. Dželilović (Kahrović)**, “*Termičko razlaganje adukata nekih prelaznih elemenata sa N-metilformamidom*” VI Jugoslovenski kongres za hemiju i hemijsku tehnologiju, Sarajevo, 10-13 septembra 1979.

RECENZIJE

Recenzije međunarodnih projekata

Recenzent za ocjenu prijavljenih naučnih projekata Ministarstva znanosti, obrazovanja i športa R Hrvatske, 2007-08.

Recenzent za ocjenu međunarodnih aplikacija EU COST projekta EU OC-2015-2-20139

Recenzije naučnih radova u časopisima

Analytical Methods

European Journal of Chemistry

Zeitschrift für anorganische und allgemeine Chemie

Croatica Chemica Acta

Acta Chimica Slovenica

International Journal of Pharmacy and Pharmaceutical Science

Bioorganic chemistry

Journal of Coordination Chemistry

Applied and Organometallic Chemistry

NAUČNO-ISTRAŽIVAČKI PROJEKTI

Nacionalni projekti

A. Zahirović (voditelj projekta) i saradnici „Kompleksi vanadija s hidrazonima kao potencijalni anti-SARS-CoV-2 agensi“, Federalno ministarstvo obrazovanja i nauke, 2021.

A. Kozarić (voditeljica projekta) i saradnici “ In vitro ispitivanje vitalnosti kancerogenih ćelijskih linija nakon aplikacije rutenij kompleksa”, Federalno ministarstvo obrazovanja i nauke, 2018.

E. Kahrović (voditeljica projekta) i saradnici “Novi antiproliferativni kompleksi rutenija: sinteza i SAR-studija“ Federalno ministarstvo obrazovanja i nauke, 2018.

E. Kahrović (voditeljica projekta) i saradnici „Kompleksi rutenija sa flavonoidima kao potencijalni lijekovi: sinteza i karakterizacija,, Federalno ministarstvo obrazovanja i nauke, 2015.

E. Kahrović (voditeljica projekta) i saradnici „Istraživanje interakcije-interkalacije DNK (dezoksiribonukleinske kiseline) sa novim kompleksima Ru(III) sa Šifovim bazama“ Federalno ministarstvo obrazovanja i nauke, 2013.

E. Kahrović (voditeljica projekta) i saradnici “Novi kompleksni spojevi rutenija i kobalta: sinteza, reakcija sa proteinima i DNA kao pretpostavka za antitumorno dještvo” Kantonalno Ministarstvo obrazovanja i nauke, 2007.

E. Kahrović (voditeljica projekta) i saradnici “Istraživanje novih jedinjenja kao potencijalnih antikancera i razvoj novih biosenzora“,Federalno ministarstvo obrazovanja i nauke, 2003-2005.

E. Kahrović (voditeljica projekta) i saradnici “Razvoj novih metalnih kompleksa kao antitumornih agenasa i novi biosenzori“, Kantonalno Ministarstvo obrazovanja i nauke, 2003- 2005.

E. Ruždić, **E. Kahrović**, Sinteza i karakterizacija novih kompleksa rijetkih metala, SIZ nauke SR BiH, 1990 – 1992.

Međunarodni projekti

ECOSTBio – Explicit Control Over Spin-states in Technology and Biochemistry

SCOPEs – Metal-Hydride Organic Frameworks (HOF) – New solids for gas adsorption and separation, Swiss National Science Foundation

UNESCO - Investigation of new complex compounds as potential anticancers and development of new biosensors

SEMINARI

Emira Kahrović, “Synthesis and structural research of some Mo(V) complexes with N-substituted salicylidenimines”, Università degli studi di Firenze, Dipartimento di Chimica, 06 October, 1999, Italia.

Emira Kahrović, “Termičke metode analize”, Bosnalijek Sarajevo, 07. 02. 2003.

Workshop and Laboratory Exercise on the Analysis of Chemicals Related to the Chemical Weapons Convention (CW-LABEX), Finnish Institute for Verification of the Chemical Weapons

Convention Helsinki, Finland, 4–8 September 2006- **E. Kahrović, učesnik predstavnik BiH.**

KSPERTIZE

Ekspertiza za potrebe Federalnog MUP-a, 2003.

Analize/ekspertize anorganskih materijala-backfilla-za potrebe „ Energoinvest“ –Great River Project-Phase I, Libija, 2004-2006.

Analiza uzorka/ekspertiza –rekonstrukcija Ferhadija džamije Sarajevo - za potrebe Kantonalnog zavoda za zaštitu kulturno-historijskog i prirodnog nasljeđa, sarajevo, 2010.

Analiza/ekspertiza uzoraka –Aladža džamija Foča - za potrebe Komisije za očuvanje nacionalnih spomenika BiH, 2012.

DRUGE AKTIVNOSTI VEZANE ZA STRUKU

2012-2017. Voditeljica vijeća III ciklusa studja hemije

1998-2000. Šef Odsjeka za hemiju

2000- Šef katedre za opštu i anorgansku hemiju

2005-2007. Prodekan za opće poslove i finansije Prirodno-matematičkog fakulteta u Sarajevu

2001-2002 Čkan Odbora povjerenika fondacije za izdavaštvo Federacije BiH

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Nagrada za nauku Univerziteta u Sarajevu za 2021. godinu

Nagrada za nauku Univerziteta u Sarajevu za 2019. godinu

Nagrada za nauku Univerziteta u Sarajevu za 2017. godinu

ČLANSTVO

Dopisni član Akademije nauka i umjetnosti Bosne i Hercegovine

American Chemical Society

Society of Biological Inorganic Chemistry

Član redakcijskog odbora Glasnika hemičara i tehnologa BiH