

BASIC INFORMATION

Dr. Sabina Begić



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Date of birth: 14. 12. 1974.

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Citizenship: BiH

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EMPLOYMENT

University of Sarajevo, Faculty of Science

📍 Department of Chemistry, Division for general and inorganic chemistry
Zmaja od Bosne 35, 71 000 Sarajevo, Bosna i Hercegovina
Cabinet: 336/III

Associate Professor in the fields of General Chemistry and Inorganic Chemistry

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WORK EXPERIENCE

06. 05. 2019. – danas

Associate Professor for the fields of General Chemistry and Inorganic Chemistry at the department of Chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina

05. 09. 2014. – 05. 05. 2019.

Assistant Professor for subjects: "Introduction for Laboratory Techniques" and "Special Topic in Inorganic Chemistry" at the department of Chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina.

24. 04. 2008. – 04. 09. 2014.

Senior Assistant for the fields of General Chemistry and Inorganic Chemistry at the department of Chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina.

01.6. 2003. – 03. 04. 2008.

Assistant for the fields of General Chemistry and Inorganic Chemistry at the department of Chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina.

Teaching experience

Associate professor for the scientific fields of General Chemistry and Inorganic Chemistry

Subject holder:

Introduction for Laboratory Techniques, Complex Compounds in Environment, Applied Inorganic Chemistry, Current Topics in Chemistry, Sensors for Pollution Monitoring, General Chemistry for Physicists, General Chemistry (Academy of Fine Arts), Current Topics in Chemistry, Special Topic in Inorganic Chemistry.

EDUCATION

21. 03. 2014. Doctor of Chemical Sciences, Faculty of Science, University of Sarajevo
 Doctoral dissertation: „*Synthesis and Characterization of new complexes Ru(III) with O, N-donor ligands*“. Mentor: prof. dr. Emira Kahrović
09. 06. 2006. *Magistra rerum naturalium*. Title: „*Some metal oxides as mediator for the amperometric determination of hydrogen peroxide*“ Karl-Franzens University, Graz. Mentors: prof. dr. Emir Turkušić and prof. dr. Kurt Kalcher.
- 2006 Karl-Franzens University, Graz, Austria
- 2003 – 2005 Post-graduate study, Faculty of Science, Sarajevo
- 1997 – 2001 *Graduated Chemical Engineer*, Faculty of Science, Sarajevo
- 1999 – 2002 *Professor of Chemistry*, Faculty of Science, Sarajevo
- 1996 – 1997 *Medical nurse*, Medical school Bihac
- 1996 – 1997 *Physics technician*, Gymnasium Sanski Most
- 1994 – 1996 Berufsausbildungsschule Hamburg (Praxis Dr. Bauer – Dr. Diederichs-Holthusen), Germany
- 1989 – 1992 Public Institution Gymnasium Sanski Most

PERSONAL SKILLS

Mother language Bosnian

Foreign languages	UNDERSTANDING	SPEECH	WRITING
German	C2	C2	C1
English	B1	B1	B1
Turkish	A2	A2	A2

Levels: A1/2: Beginner - B1/2: Independent user - C1/2 Experienced user
 Common European Framework of Reference for Languages

ADDITIONAL INFORMATION

Specialization Study stays at Karl-Franzens University (Graz, Austria): May, June 2006.; February, Mart and December 2005.; June, July 2004.; July and September 2003. „Some metal oxides as mediators for sensors and biosensors“(Project: Development of new sensors and biosensors; Projects FMON-a i MONKS-a, WUS Austria – scholarship).

Participation in projects

Project name, holder, year (partitipation) *ECOBIAS Development of master curricula in ecological and aquatic bioassessment for Western Balkans; prof. dr. Samir Đug, 2021 (member)*

Project name, holder, year (partitipation) "HEALTH RISK ASSESSMENT BASED ON THE CONTENT OF HARMFUL SUBSTANCES OF CHEMICALLY ANALYZED WOOD BIOMASS (PELLETS AND BRIQUETTES) AVAILABLE ON THE BOSNIA AND HERZEGOVINA MARKET", Doc. dr. Mirha Pazalja, 2019 (associate).

<i>Project name, holder, year (participation)</i>	Synthesis, characterization and antitumor properties of new ruthenium complexes with O, N and S - donor ligands; Prof. dr. Nevzeta Ljubijankić; 2016 (associate).
<i>Project name, holder, year (participation)</i>	New complex compounds of ruthenium and cobalt: synthesis, reaction with proteins and DNA as a hypothesis for antitumor activity; Prof. dr. Emira Kahrović; (associate).
<i>Project name, holder, year (participation)</i>	Research of new compounds as potential anticancer agents and development of new biosensors; Prof. dr. Emira Kahrović; 2003 (associate).

Participation in conferences

June - July 2022.	4 th <i>International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina</i> , Sarajevo.
October 2018.	3 rd <i>International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina</i> , Sarajevo.
June 2017.	5 th <i>International Scientific Conference „June 5th – World Environment Day“</i> , Bihać, BiH, 29. i 30. June 2017.
October 2016.	2 nd <i>International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina</i> , Sarajevo.
October 2014.	1 st <i>Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with International Participation</i> , Sarajevo, Bosnia and Herzegovina.
September 2013.	<i>International Turkish Congress on Molecular Spectroscopy</i> , Istanbul, Turkey.
July 2009.	14 th <i>International Conference on Biological Inorganic Chemistry</i> , Nagoya, Japan.
July 2006.	37 th <i>International Conference on Coordination Chemistry</i> , 13-18 th July, Cape Town, South Africa.
July 2006.	13 th <i>Young Investigators Seminar On Analytical Chemistry</i> , Zagreb, Croatia.
July 2005.	12 th <i>Young investigators` Seminar on Analytical Chemistry</i> July 5 – July 10, Sarajevo, Bosnia and Herzegovina.
July 2004.	11 th <i>Young investigators` Seminar on Analytical Chemistry</i> , Karl-Franzens University, Graz, Austria.

Memberships

- Member of the Society of Chemists and Technologists of Sarajevo Canton
- Congress Chair and Member of the Scientific Committee of the 4th International Congress of Chemists and Technologists of Bosnia and Herzegovina (30. June – 2. July 2022)
- Member of the Organizing Committee and the Scientific Committee of the 3rd International Congress of Chemists and Technologists of Bosnia and Herzegovina
- Member of the Organizing Committee and the Scientific Committee of the 2nd International Congress of Chemists and Technologists of Bosnia and Herzegovina (21-23. October 2016)

Reviews

The reviewer of the manuscript entitled "STOCHIOMETRY, Collection of problems with solutions" authored by Assoc. Dr. Mirha Pazalja. (Decision of the Council of the Faculty of Pharmacy in Sarajevo number 0101-2273/20 dated June 8, 2020).

The reviewer of the manuscript entitled "CHEMICAL CALCULATION" authored by Assoc. Dr. Josip Jurković (Decision of the Publishing Council of the Faculty of Agriculture and Food in Sarajevo, number 01-1-827/19 dated April 1, 2019).

BIBLIOGRAPHY

Editions



Chapter in the book

Nevzeta Ljubijankić, **Sabina Begić**, Irnesa Osmanković

Practicum in general chemistry

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Waryo, T.T., **Begić, S.**, Turkušić, E., Vyřas, K. and Kalcher, K. (2005) Sensing in Electroanalysis. U: Karel Vyřas and Kurt Kalcher (eds.), *Metal Oxide-Modified Carbon Amperometric H₂O₂ - Transducers and Oxide-Biosensors*. University of Pardubice, Pardubice, Czech Republik, ISBN: 80-7194-831-4, pp. 145-191.

Scientific research

1. Šehović, E., Memić, M., Sulejmanović, J., Hameed, M., **Begić, S.**, Ljubijankić, N., ... & Sher, F. (2022). Thermodynamic valorisation of lignocellulosic biomass green sorbents for toxic pollutants removal. *Chemosphere*, 307, 135737.
2. Sulejmanović, J., Memić, M., Šehović, E., Omanović, R., **Begić, S.**, Pazalja, M., Ajanović, A., Azhar, O., Sher, F. (2022) Synthesis of green nano sorbents for simultaneous preconcentration and recovery of heavy metals from water. *Chemosphere*, 296/22/133971. DOI: 10.1016/j.chemosphere.2022.133971.
3. Pazalja, M., Salihović, M., Sulejmanović, J., Smajović, A., **Begić, S.**, Spirtović-Halilović, S-H., Sher, F. (2021) SCIENTIFIC REPORTS, 11 (1), 17952; DOI: 10.1038/s41598-021-97305-4.
4. Sulejmanović, J., Kovač, N., Memić, M., Šabanović, E., **Begić, S.**, Sher, F. (2021) Selective removal of lead ions from aqueous solutions using SiO₂-MoO₃: Isotherm, kinetics and thermodynamic studies. *Case Studies in Chemical and Environmental Engineering*, 3, art. no. 100083. DOI: 10.1016/j.cscee.2021.100083.
5. Suljević, D., Handžić, N., Foćak, M. Lasić, I., Sipović, F., Sulejmanović, J., **Begić, S.**, Alijagić, A. (2020) Lead Exposure Influences Serum Biomarkers, Hepatocyte Survival, Bone Marrow Hematopoiesis, and the Reproductive Cycle in Japanese Quails. *Biol Trace Elem Res*. DOI: 10.1007/s12011-020-02272-y.
6. **Begić, S.**, Ljubijankić, N., Gojak-Salimović, S. and E. Osmić (2019) Novel complexes of ruthenium(III) with Schiff bases and indazole – synthesis and characterization. *Rasayan J. Chem.*, 12(1) 294-299. DOI: 10.31788/RJC.2019.1215112.
7. Sulejmanović, J., Šabanović, E., **Begić, S.** and Memić, M. (2019) Molybdenum(VI) oxide-modified silica gel as a novel sorbent for the simultaneous solid-phase extraction of eight metals with determination by flame atomic absorption spectrometry. *Analytical Letters*, accepted for publication. DOI: 10.1080/00032719.2018.1481418.
8. Abdić, Š., Memić, M., Šabanović, E., Sulejmanović, J. and **Begić, S.** (2018) Adsorptive removal of eight heavy metals from aqueous solution by unmodified and modified agricultural waste: tangerine peel. *International Journal of Environmental Science and Technology*, 1-8. DOI: 10.1007/s13762-018-1645-7.

9. Ljubijankić, N., **Begić, S.**, Ljubović-Dedeić, A., Stanković, M., Salimović-Bešić, I., Jadranin, M., Bencun, B. and Ljubijankić, S. (2018) Antimicrobial and genotoxic activity of novel ruthenium(III) complex with *N*-phenyl-5-nitrosacylideneimine. *Rasayan J. Chem.*, 11(4): 1511-1518. DOI: 10.31788/RJC.2018.1145021.
10. Ljubijankić, N., Stanković, M., Tešević, V., Grgurić-Šipka, S., Jadranin, M., **Begić, S.** and Šabanović, E. (2018) Cytokinesis block micronucleus assay in human lymphocytes after exposure to Ru(III) thiosemicarbazone complexes *in vitro*. *Rasayan J. Chem.*, 11(2): 647-652. DOI: 10.7324/RJC.2018.1123004.
11. Ljubijankić, N., Tešević, V., Grgurić-Šipka, S., Jadranin, M., **Begić, S.**, Buljubašić, L., Markotić, E. and Ljubijankić, S. (2016) Synthesis and characterization of Ru(III) complexes with thiosemicarbazide-based ligands. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 47, 1-6.
12. **Begić, S.** and Ljubijankić, N. (2016) Synthesis and Characterization of Neutral Ru(III) Complexes Containing Schiff Bases and *N*-donor Heterocyclic Ligands. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 47, 27-32.
13. **Begić-Hairlahović, S.**, Kahrović, E. and Turkušić, E. (2014) 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.
14. Turkušić, E., **Begić, S.** Kahrović, E. and Kalcher, K. (2011) Amperometric Determination of Glucose with FeO and Glucose Oxidase Bulk-Modified Screen-Printed Carbon Ink Biosensor. *HealthMED*, 5/5, 1117-1122.
15. Turkušić, E., **Begić, S.** Kahrović, E. and Kalcher, K. (2011) Amperometric Determination of hydrogen peroxide with FeO Bulk-Modified Screen-Printed Carbon Ink Sensor. *HealthMED*, 5/4, 949-955.
16. Kahrović, E., Dehari, S., Dehari, D., Reci, H., **Begić, S.** and Ljubijankić, N. (2010) Synthesis and characterization of new Ru (III) complexes with monobasic (NO) and dibasic (ONO) Schiff bases derived from salicylaldehydes. *TECHNICS TECHNOLOGIES EDUCATION MANAGEMENT-TTEM*, 5/4, 799- 803.
17. Waryo, T.T. , **Begić, S.**, Turkušić, E., Vytřas, K. and Kalcher, K. (2005) Fe₃O₄-Modified Thick Film Carbon-Based Amperometric Oxidase-Biosensor. *Sci. Pap. Univ. Pardubice, Ser. A*,11, 265–279.
18. Turkušić, E., Kalcher, J., Kahrović, E., Beyene, N.W., Moderegger, H., Sofić, E., **Begić, S.** and Kalcher, K. (2005) Amperometric Determination of Bonded-Glucose With a Manganese Dioxide and Glucose Oxidase Double Bulk-Modified Screen Printed Electrode Using Flow Injection Analysis. *Talanta*, 65, 559-564.

Proceedings

1. Waryo, T., Kotzian, P., **Begić, S.**, Bradizlova, P., Beyene, N., Baker, P., Kgarebe, B. Turkusić, E., Iwuoha, E., Vytras, K. and Kalcher, K. (2009) Amperometric Hydrogen Peroxide Sensors with Multivalent Metal Oxide-Modified Electrodes for Biomedical Analysis. 13th INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING, ICBME 2008, Chwee Teck Lim, James C.H. Goh (Eds.), *IFMBE Proceedings* 23/2, 829-833.

Professional papers

1. Kadić, S., **Ljubijankić, N.**, Begić, S., Kazlagić, N., Ljubijankić, S. (2019) Ecology in elementary school. *Book of proceedings 6th International Scientific Conference „June 5th – World Environment Day“*, ISSN 2566-4530, p.356-364.
2. Kazlagić, A., Ljubijankić, S., Kadić, S., Begić, S., **Ljubijankić, N.** (2019) Properties and Ecotoxicology of Phosphorus. *Book of proceedings 6th International Scientific*

- Conference „June 5th – World Environment Day“, ISSN 2566-4530, p. 416-424.
3. Ljubijankić, N., Cipurković, A., **Begić, S.**, Horozić, E. i Ljubijankić, S. (2018) Osobine i ekotoksikologija kadmija. U *Zbornik radova Peti naučno-stručni skup sa međunarodnim učešćem "5. juni - Svjetski dan zaštite okoliša" 29. i 30. Juni 2017*, Bihać, BiH, Univerzitet u Bihaću, Biotehnički fakultet, ISSN 2566-4530, str. 48-55.
 4. **Begić, S.**, Ljubijankić, N. (2018) Zbrinjavanje hemijskog otpada u studentskim laboratorijama. U *Zbornik radova Peti naučno-stručni skup sa međunarodnim učešćem "5. juni - Svjetski dan zaštite okoliša" 29. i 30. Juni 2017*, Bihać, BiH, Univerzitet u Bihaću, Biotehnički fakultet, ISSN 2566-4530, str. 105-112.

Papers at scientific conferences

1. Ljubijankić, N., **Begić, S.**, Ibragić, S. (2022) Antioxidant Activity of Ru(III) Complexes and Their Ligands Derived from Salicylaldehyde and Halogenated Anilines, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH 30.06-02.07, Book of Abstracts, p. 47.
2. Krečo, A., **Begić, S.**, Nuić, I., Mrdić, M. (2022) Possibilities of STEAM Integration in Canton Sarajevo Primary School Chemistry Teaching 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH 30.06-02.07, Book of Abstracts, p. 93.
3. Masleša, A., Sulejmanović, J., Šehović, E., **Begić, S.**, Sher, F. and Selović, A. (2022) Biosorption removal study of Methylene blue dye from aqueous solution on a Citrus limon peel, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH 30.06-02.07, Book of Abstracts, p.104.
4. Sulejmanović, J., Zrno, A., Omanović, R., Topčagić, A., **Begić, S.** and Jurković, J. (2022) Novel approach for effective removal of methylene blue dye from water using grapefruit peel as a potential biosorbent, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH 30.06-02.07, Book of Abstracts, p.105.
5. Trožić-Borovac, S., Bijedić, A., Škrijelj, R., **Begić, S.**, Imamović, B. (2022) Correlation of Saprobic Index and Selected Chemical Factors in the Rivers Ljuta and Buna, , 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH 30.06-02.07, Book of Abstracts, p.117.
6. Sher F., Sulejmanović J., **Begić S.**, Ziani I., Smječanin N., Karadža A., Šehović E., Omanović R., Nuhanović M. (2022) Electrocoagulation coupled with oxidation as an effective approach for industrial wastewater treatment, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, Sarajevo, BiH, 30.06-02.07, Book of Abstracts, PP-ENC-23, p.123.
7. Pazalja M., Salihović M., Sulejmanović J., **Begić S.**, Musić E. (2021). Analysis of Heavy Metals in Ashes of Wood Biomass. VII International Congress "Engineering, Environment and Materials in Process Industry". 17 – 19 March, Jahorina, Bosnia and Herzegovina.
8. Pazalja M., Salihović M., Babić H., Špirtović-Halilović S., **Begić S.** (2019) Spectrophotometric determination of total carbohydrates in natural juices. 4th Congress of pharmacists of Bosnia and Herzegovina with international participation Sarajevo 10-13.10.2019.
9. Pazalja, M., Salihović, M., Sulejmanović, J., Memić, M., **Begić, S.** (2019) Determination of the content of heavy metals in pellet and pellet ash by FAAS technique. *VI International scientific-professional symposium "Environmental resources, sustainable development and food production"* – OPORPH 2019, 14-15 November 2019, Tuzla, Bosnia and Herzegovina: Book of Abstracts, p. 35.
10. Salihović, M., Pazalja, M., Roca, S., Špirtović-Halilović, S., Veljović, E., Šapčanin, A., **Begić, S.** (2019) Density functional theory: 1H-NMR and 13C-NMR spectra of some Schiff bases. *VI International scientific-professional symposium "Environmental resources, sustainable development and food production"* – OPORPH 2019, 14-15 November 2019, Tuzla, Bosnia

and Herzegovina: Book of Abstracts, p. 36.

11. Ljubijankić, N., **Begić, S.**, Jadranin, M., Kazlagić, N., Ljubijankić, S. (2018) Synthesis and characterization of tetramethylammoniumdichlorobis(*N*-ethyl-salicylideneiminato-*O,N*) ruthenate (III), *XII International Conference of Chemists, technologists and environmentalists of the Republic of Srpska*, Teslić, BiH 2-3 November, The Book of Abstracts, p 18.
12. Ljubijankić, N., Kazlagić, A., Salihbegović, A., **Begić, S.**, Kadić, S., Špirtović-Halilović, S. (2018) Synthesis, Characterization and Biological Properties of Novel Ru(III) and Fe(III) Complexes with Thiosemicarbazide-based Ligands, *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH 19 – 21 October, Book of Abstracts, p. 47.
13. Ljubijankić, N., Markotić, E., Granzov, I., Šuta, E., **Begić, S.**, Ljubijankić, S. (2018) Synthesis and Characterization of New Ru(III) and Fe(III) Complexes with Schiff Bases Derived from Substituted Salicylaldehydes and Alkylamines, *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH 19 – 21 October, Book of Abstracts, p. 48.
14. Ljubijankić, N., Šuta, E., Čatić, A., **Begić, S.**, Ljubijankić, S. (2018) Synthesis and Characterization of New Ru(III) Complexes with Schiff Bases derived from Salicylaldehydes and Halogen Derivatives of Aniline. *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH 19 – 21 October, Book of Abstracts, p. 49.
15. Gojak-Salimović, S., Osmić, E., Ljubijankić, N., Begić, S. (2018) The Effect of Ru(III) Complexes with *N*-phenyl-5-*X*-salicylideneimine and Indazole on the Briggs-Rauscher Oscillating Reaction. *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH 19 – 21 October, Book of Abstracts, p. 50.
16. Kadić, S., Ljubijankić, N., **Begić, S.**, Kazlagić, N., Ljubijankić, S. (2018) Ecology in elementary school. *6th International Scientific Conference „June 5th – World Environment Day“*, Bihać, BiH, 18-19 June, Book of Abstracts, p. 64.
17. Kazlagić, A., Ljubijankić, S., Kadić, S., **Begić, S.**, Ljubijankić, N. (2018) Properties and Ecotoxicology of Phosphorus. *6th International Scientific Conference „June 5th – World Environment Day“*, Bihać, BiH, 18-19 June, Book of Abstracts, p. 65.
18. **Begić, S.**, Ljubijankić, N., (2017) Zbrinjavanje hemijskog otpada u studentskim laboratorijama. *Peti naučno-stručni skup sa međunarodnim učešćem "5. juni – Svjetski dan zaštite okoliša"*, Bihać, BiH, 29. i 30. Juni. Zbornik sažetaka p. 58.
19. Ljubijankić, N., Cipurković A., **Begić, S.**, Horozić, E., Ljubijankić, S., (2017) Osobine i ekotoksikologija kadmija. *Peti naučno-stručni skup sa međunarodnim učešćem "5. juni - Svjetski dan zaštite okoliša"* Bihać, BiH, 29. i 30. Juni. Zbornik sažetaka p. 22.
20. Ljubijankić, N., **Begić, S.**, Ljubović-Dedeić, A., Salimović-Bešić, I., Jadranin, M., Bencun, B., Zukić, M., (2016) Antimicrobial Activity of Ruthenium(III) Complex with *N*-phenyl-5-nitro-salicylideneimine. *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH, 21-23 October, Book of Abstracts, Book of Abstracts, p. 80.
21. Ljubijankić, N., Tešević, V., Grgurić-Šipka, S., Jadranin, M., **Begić S.**, Buljubašić, L., Markotić, E., Ljubijankić, S., (2016) Synthesis and Characterization of Ru(III) Complexes with Thiosemicarbazide-based Ligands. *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH, 21-23 October, Book of Abstracts, p. 82.
22. **Begić, S.**, Ljubijankić, N., (2016) Synthesis and Characterization of Novel Neutral Complex Compounds Ru(III) with Schiff Bases and *N*-heterocycles *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*,

Sarajevo, BiH, 21-23 October, Book of Abstracts, p. 87.

23. Sulejmanović, J., Memić, M., **Begić, S. (2016)** Silica Gel-Molybdenum(VI) Oxide as a New Sorbent for Solid Phase Extraction of Cd(II), Cu(II), Mn(II) and Pb(II). *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH, 21-23 October, Book of Abstracts, p. 35.
24. Abdić, Š., Memić, M., Sulejmanović, J., **Begić, S. (2016)** Untreated Tangerina Peel (*Citrus reticulata*) as Biosorbent for the Removal of Cd(II), Cu(II), Pb(II) and Zn(II) from Aqueous Solutions. *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, Sarajevo, BiH, 21-23 October, Book of Abstracts, p. 34.
25. **Begić-Hairlahović, S.**, Kahrović, E., Turkušić, E. (2014) 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.
26. Zahirović, A., **Begić-Hairlahović, S.**, Ljubijankić, N., Turkušić, E., Kahrović, E. (2013) 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, Book of Abstracts, Applied Spectroscopies – P7, p. 88.
27. Kahrović, E., Turkušić, E., Ljubijankić, N., **Begić, S.**, Dugandžić, V., Zahirović, E. (2012) The Spectroscopic Investigations of a Ruthenium Schiff Base Complex with CT DNA. *40 International Congress on Coordination Chemistry*, Valencia, Spain, September 9-13.
28. Kahrović, E., Dehari, S., Dehari, D., Jusufi, S., Reci, H, **Begić, S.**, Ljubijankić, N. (2009) Ruthenium (III) complexes with bidentate Schiff bases. Preliminary interaction of Tetraethylammoniumdichloro-bis[N-phenyl-4-bromo-salicylideneiminato-N,O]ruthenat(III) with DNA. *14th International Conference on Biological Inorganic Chemistry*, Nagoya, Japan, July 25-30, (J Biol Inorg Chem 14 (Suppl 1):S175-S184).
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