

PERSONAL INFORMATION Dr Fehim Korać

📍 Vogošća, Bosnia and Herzegovina

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Date of birth: 20. 5. 1963.

Birth place: Jahovice, Montenegro

Citizenship: Bosnia and Herzegovina

Marital status: married

ORCID [0000-0001-7662-3341](https://orcid.org/0000-0001-7662-3341)

EMPLOYMENT**Faculty of Science, University of Sarajevo**

Department of Chemistry, Department of Physical Chemistry

📍 Zmaja od Bosne 33-35, 71 000 Sarajevo, Bosnia and Herzegovina

Cabinet: 338/III

Full professor in the field of Physical Chemistry

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WORK EXPERIENCE

- from 24. 6. 2019. Full professor for Physical Chemistry at the Department of Chemistry of the Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
14. 11. 2013. – 24. 6. 2019 Associate Professor of Physical Chemistry at the Department of Chemistry, Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
- 15.09.2010 – 14. 11. 2013. Assistant professor for Physical Chemistry at the Department of Chemistry, Faculty of Science, University of Sarajevo, Bosnia and Herzegovina
02. 6. 1998. – 14. 09. 2010. Senior assistant in the field of Medicinal Chemistry at the Faculty of Medicine, University of Sarajevo, Bosnia and Herzegovina

EDUCATION

15. 4. 2009 **Doctor of Chemical Sciences**, Faculty of Science, University of Sarajevo
19. 07. 1991 **Master of Chemical Sciences**, Faculty of Science, University of Sarajevo
07. 11. 1986. **Graduated Chemical Engineer**, Faculty of Science, University of Sarajevo

PERSONAL SKILLS

Native language Bosnian language

Other languages

UNDERSTANDING		SPEECH		WRITING
Listening	Reading	Spoken interaction	Speech production	
German language	B2	B2	B2	B2

Working on a computer

- Microsoft Office™
- chemical software

Training

- 2012 VI consultation on Higher Education Reform, Continuity of higher education reform, Sarajevo, 13. and 14.04.
- 2011 V consultation on the reform of higher education - application of the Bologna principles at the University of Sarajevo, Further trends of the reform of higher education according to the Bologna principles, Sarajevo , 14. i 15.04.
- 2010 IV consultation on the reform of higher education - application of the Bologna principles at the University of Sarajevo, Development of the quality management system in higher education, Sarajevo , 16. i 17.04.
- 2009 III consultation Reform of higher education - application of Bologna principles at the University of Sarajevo , 24. i 25.04.
- 2008 Seminar Pedagogical education of teachers and associates at the University of Sarajevo, University of Sarajevo
- 2008 Second consultation, Reform of higher education - application of Bologna principles at the University of Sarajevo, Sarajevo , 11. i 12.04.
- 2007 Reform of higher education - implementation of the Bologna Process at the University of Sarajevo, Sarajevo, 23. i 24.02.
- 2007 Course Development and Lifelong Learning, 15.i 16.02., Sarajevo, WUS Austria
- 2007 New perspectives for fast HPLC using two micron packing material, broader pressure, flow and temperature range of analytical equipment on Agilent 1200RR system, 4th Congress of Pharmacy of Macedonia, 26.-30.09., Ohrid, Macedonia
- 2006 Quality Assurance System of B&H Universities, 25. i 26.01., Sarajevo
- 2006 12th International Symposium on Separation Sciences, 27.09., Lipica, Slovenia
- 2005 Curriculum development and introduction of ECTS, 21.-23.09., Sarajevo, WUS Austria
- 2005 "Bosnia and Herzegovina - integration into the European area of higher education in 2005", 06.-10.06., Sarajevo, WUS Austria

Scientific research projects

- 2001 M. Šober, B. Nikolin, M. Lekić, F. Korać et al., "Development of alternative methods of identification and determination of herbicides derived from chlorophenoxy carboxylic acids", Federal Ministry of Education, Science, Culture and Sports, no. 04-39-8310 1/01 od 21.12.2001.
- 2003 M. Šober, M. Lekić, F. Korać, B. Nikolin, M. Vehabović, et al., "Testing of stereomeric drugs by chromatographic methods", Federal Ministry of Education and Science decision no. 04-39-3932/03 od 10.12.2003.
- 2003 M. Lekić, F. Korać, E. Đulić, M. Šober, B. Nikolin, Z. Dizdarević et al., "Chromatographic examination of natural and synthetic steroid hormones - growth promoters in animals", Ministry of Education and Science of Sarajevo Canton from 25.12.2003.

- 2003 M. Šober, M. Lekić, F. Korać, B. Nikolin, T. Larssen et al., "Investigation of the presence of polychlorinated biphenyls in the soil of the catchment area in the territory of Sarajevo Canton", Ministry of Education and Science of Sarajevo Canton from 25.12.2003.
- 2008 S. Kobašlija, M. Lekić, E. Turkušić, K. Kalcher, L. Hasić-Branković, F. Korać, A. Bajrić, "Effect of topical application of fluoride solutions on inhibition of enamel demineralization and potentiometric parameters in dental plaque, plaque fluid and: 03-39-5980-49-2/08 from 23.12.2008.
- 2010 Farzet Bikić, Mirsada Rizvanović, Merzuk Cacan, Diana Ćubela, Fehim Korać, Dženana Subašić, "Investigation of the effect of chemical binding of chloride to aluminum hydrates on the corrosion of steel reinforcement in concrete caused by the penetration of chlorides and sulfates from the environment", from 01.01.2011. until December 31, 2011, Federal Ministry of Education and Science, Contract No. 08-14-7013-27/10 and 01-100-820-2835/10 dated October 12, 2010.
- 2012 Project holder „Support to public scientific and higher education institutions (universities) of importance for the Federation for the year 2012" financed by the Federal Ministry of Education and Science, through support to public scientific and higher education institutions (stimulating the work of public scientific research, research and development and higher education institutions from of importance for the Federation/BiH through the arrangement of space and the procurement of priority equipment for scientific research).
- 2011 As the Editor-in-Chief of the Journal of Chemists and Technologists of Bosnia and Herzegovina, the holder of the Project "Support for the Publication of Scientific Journals, Proceedings and Bibliographies in 2011", financed by the Federal Ministry of Education and Science. Approved funds in the amount of 1300.00 KM.
- 2010 - 2015 Longitudinal research on the integration of conceptual knowledge in chemistry and physics of students of the Department of Chemistry and Department of Physics, Project leader: prof. Dr. Meliha Zejnilagić-Hajrić, Faculty of Science and Mathematics, University of Sarajevo.
- 2016 Equipping the Physical Chemistry Laboratory, Project manager: prof. Dr. Fehim Korać, Financier: Federal Ministry of Education and Science
- 2017 Analysis of platinum mesh, professional project, Financier: Global Ispat Koksne Industrije d.o.o. Lukavac (GIKIL), Project leader: prof. Dr. Fehim Korać.
- 2018 Corrosion study of base material as welded joints, professional project, Arcelor Mittal d.o.o. Zenica, Project leader: prof. Dr. Fehim Korać.
- 2018 - 2021 Chemical On-Line Composition and Source Apportionment of Fine Aerosol. COST COLOSSAL projekat, COST Action CA16109, učesnik u grupama WG1 i WG4. Podaci dostupni na web stranici: <https://www.costcolossal.eu/participant/>
- 2019 „Functionalized graphene materials in electrochemical systems for energy conversion and storage" funded by the Federal Ministry of Education and Science. Project manager prof. Dr. Sanjin Gutić

Participation in conferences

- 2018 3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, October 19th-21st, Sarajevo, BiH

- 2016 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, October, 21st-23rd, Sarajevo, BiH
- 2016 Third International Symposium on Corrosion and Protection of Materials and the Environment, 12-15. October, Bar, Montenegro
- 2016 XVIII YUCORR »Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection«, 12-15.04., Tara, Serbia
- 2014 1st International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, October, 10th-12th, Sarajevo, BiH
- 2012 VI consultation on the reform of higher education, Continuity of the reform of higher education, 13-14.04., Sarajevo,
- 2011 V consultation on the reform of higher education - application of the Bologna principles at the University of Sarajevo, Further trends in the reform of higher education according to the Bologna principles, April 14-15, Sarajevo, Bosnia and Herzegovina
- 2010 IV conference on the reform of higher education - application of the Bologna principles at the University of Sarajevo, Development of the quality management system in higher education, April 16-17, Sarajevo, Bosnia and Herzegovina
- 2009 III conference Reform of higher education - application of Bologna principles at the University of Sarajevo, April 24-25, Sarajevo, Bosnia and Herzegovina
- 2008 Seminar Pedagogical education of teachers and associates at the University of Sarajevo, University of Sarajevo, Sarajevo, Bosnia and Herzegovina
- 2008 Second consultation, Reform of higher education - application of Bologna principles at the University of Sarajevo, April 11-12, Sarajevo, Bosnia and Herzegovina
- 2007 Reform of higher education - implementation of the Bologna Process at the University of Sarajevo, February 23-24, Sarajevo, Bosnia and Herzegovina
- 2007 Course Development and Lifelong Learning, WUS Austria, 15-16.02., Sarajevo, BiH
- 2007 New perspectives for fast HPLC using two micron packing material, broader pressure, flow and temperature range of analytical equipment on Agilent 1200RR system, 4th Congress of Pharmacy of Macedonia, 26-30.09., Ohrid, Macedonia
- 2006 Quality Assurance System of B-H Universities, 25-26.01., Sarajevo, BiH
- 2006 12th International Symposium on Separation Sciences, 27.09., Lipica, Slovenia
- 2005 Curriculum development and introduction of ECTS, WUS Austria, 21-23.09., Sarajevo, Bosnia and Herzegovina
- 2005 Bosnia and Herzegovina - integration into the European area of higher education 2005, WUS Austria, June 6-10, Sarajevo, Bosnia and Herzegovina

Memberships

- Society of Chemists and Technologists of Sarajevo Canton

BIBLIOGRAPHY

Scientific papers

1. Lekić, M., **Korać, F.** (2000) Separation of Organochlorine and Organophosphorus insecticides by Thin-Layer Chromatography, *Journal of Planar Chromatography-Modern TLC*, 13, 314-316. (Web of Science-SCI Expanded)
2. **Korać, F.**, Cacan, M. (2002) Zavisnost EMS koncentracione galvanske ćelije od učesća mješovitog rastvarača DMSO-voda u jednoj polućeliji, *Pharmacia*, 14, 17-24. (Chemical Abstracts Service)
3. Cacan, M., **Korać, F.** (2002) The Occurrence of and Changes in E.M.F. of a Concentration Galvanic Element with Respect to the Composition of a mixed Solvent in one Half-Element, *Pharmacia*, 13, 15-23. (Chemical Abstracts Service)
4. Lekić, M., Kovač-Bešović, E., **Korać, F.**, Pajalić, F. (2002) Fitohemijsko ispitivanje Pyrethri flos hromatografijom na tankom sloju, *Pharmacia*, 13, 24-34. (Chemical Abstracts Service)
5. Šober, M., Lekić, M., **Korać, F.**, Imamović, B., Marjanović, A. (2003) Identification of Chlorophenoxy Herbicides by TLC in Clinical Toxicology, *International Society for Planar Separations, Budapest, Hungary*, June 21-23, Book of Abstracts, P-33, 423-432.
6. Lekic, M., Sober, M., **Korac, F.**, Imamovic, B. (2005) Rapid chromatographic methods for the identification and determination of chlorophenoxy herbicides, *Medicinski arhiv*, 59(3), 147-151. (SCOPUS)
7. Lekić, M., **Korać, F.**, Šober, M., Marjanović, A. (2007) Planar Chromatography of Steroid Hormones and Anabolics, *Acta Chimica Slovenica*, 54, 88-91. (Web of Science-SCI Expanded)
8. **Korac, F.**, Lekic, M., Cacan, M., Gavrankapetanovic, I., Catic, S. (2010) Decomposition of orthopedic implants made of stainless steel in simulated physiological conditions, *HealthMED*, 4(4), 914-920. (Web of Science-SCI Expanded) , 38, 43-51. (Chemical Abstracts Service) 13.
9. Secic, D., Ibrahimasic, E., Kapic-Pleho, A., Tiro, N., **Korac, F.**, Kurbasic, I. (2010) Hypertriglyceridemia among workers exposed to noise, **HealthMED**, 4(4), 934-939. (Web of Science-SCI Expanded)
10. **Korać, F.**, Cacan, M., Gojak, S., Islamović, S., Gutić, S., Ostojić, J. (2010) Korozione karakteristike ortopedskih implantata od nehrđajućeg čelika i legirajućih metala u simuliranim fiziološkim uslovima, *First International Symposium on Corrosion and Protection of Materials and Environment*, 23-26.11., Bar, Crna Gora, 167-172. (ISBN 978-9940-9334-0-1)
11. Ostojić, J., Cacan, M., **Korać, F.**, Gojak, S., Islamović, S., Gutić, S. (2010) Korozija pocinčanih vodovodnih cijevi u zavisnosti od koncentracije hloridnih jona, *First International Symposium on Corrosion and Protection of Materials and Environment*, 23-26.11., Bar, Crna Gora, 173-176. (ISBN 978-9940-9334-0-1)

12. **Korać, F.**, Čatić, S., Cacan, M., Gutić, S., Islamović, S. (2010) Tačkasta korozija ortopedskog implantata u fiziološkim rastvorima, *Zaštita materijala/Materials Protection*, 51, 2, 99-103. (SCIndeks - Srpski citacioni indeks)
13. Hasic-Brankovic, L., Prcic-Konjhodzic, A., Ajanovic, M., Lekic, M., **Korac, F.**, Kobaslija S. (2011) Effect of Three Topical Fluoride Solutions on Fluoride Level in Plaque, *Pesquisa Brasileira em Odontopediatria e Clinica Integrada*, João Pessoa, 11(1), 7-12. (SCOPUS)
14. Karišik, A., Skelo, G., Cacan, M., **Korać, F.** (2011) Ispitivanje korozivnosti transformatorskih ulja u energetskim transformatorima u eksploataciji, *XIII YuCorr International Conference Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection*, 05-08.04., Tara, Srbija, 115-124. (ISBN 978-86-82343-15-8)
15. Kozica, I., **Korać, F.**, Cacan, M., Gutić, S., Gojak, S., Islamović, S., Ostojić, J. (2011) Korozija varova na inoksu u objektima javnih zatvorenih bazena, *XIII YuCorr International Conference Exchanging Experiences in the Fields of Corrosion, Materials and Environmental Protection*, 05-08.04., Tara, Srbija, 370-377. (ISBN 978-86-82343-15-8)
16. **Korać, F.**, Gutić, S., Semić, I., Kozica, I., Gojak, S., Islamović, S., Ostojić, J. (2012) Electrochemical characteristics of welded joints on stainless steel in maritime atmosphere, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina/Glasnik hemičara i tehnologa Bosne i Hercegovine*, 38, 19-24. (Chemical Abstracts Service)
17. Gojak, S., Galijašević, S., Hadžibegović, Z., Zejnilagić-Hajrić, M., Nuić, I., **Korać, F.** (2012) Integrated knowledge of physics and chemistry: case Physical Chemistry course, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina/Glasnik hemičara i tehnologa Bosne i Hercegovine* **38**, 43-51. (Chemical Abstracts Service)
18. Avdić, N., **Korać, F.** (2012) Izdvajanje nikla i cinka procesima taloženja iz otpadnih voda galvanizacije/Separation of nickel and zinc deposition process of electroplating wastewater, *Drugi međunarodni simpozijum o koroziji i zaštiti materijala i životnoj sredini*, 17-20.10., Bar, Crna Gora, 122-127. (ISBN 978-9940-9334-1-8)
19. Juričić, T., **Korać, F.**, Gutić, S., Islamović, S., Ostojić, J., Gojak, S. (2012) Modifikacija korozionog ponašanja željeza polianilinskim prevlakama nanesenim spin-coating metodom/Modification of corrosion behavior of iron by spin-coated polyaniline, *Drugi međunarodni simpozijum o koroziji i zaštiti materijala i životnoj sredini*, 17-20.10., Bar, Crna Gora, 163-167. (ISBN 978-9940-9334-1-8)
20. Ostojić, J., Gojak-Salimović, S., **Korać, F.**, Gutić, S., Islamović, S. (2013) Influence of monomer concentration on capability of voltammetric polypyrrole based cation sensor using modified Butler-Volmer equation, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina/Glasnik hemičara i tehnologa Bosne i Hercegovine*, 40, 20-24. (Chemical Abstracts Service)
21. Rimpapa, Z., Pleho-Kapić, A., Galijašević, S., Šapčanin, A., **Korać, F.** (2013) Change in Acidity of L-Ascorbic Acid in the Mixed Solvent DMSO-Water Followed by Conductometric Determination of Dissociation Constants, *Glasnik hemičara i tehnologa Bosne i Hercegovine, Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 40, 35-38. (Chemical Abstracts Service)

22. Islamović, S., **Korać, F.**, Ostojić, J., Kezo, M., Gutić, S., Koštroman, L., Halilović, A. (2013) Korozijske karakteristike sirovog i eloksiranog aluminijskog, *Kemija u industriji*, 62 (7-8) 241-246. (SCOPUS)
23. Selimović-Dragaš, M., Hasić-Branković, L., **Korać, F.**, Đapo, N., Huseinbegović, A., Kobašlija, S., Lekić, M., Hatibović-Kofman, Š. (2013) In vitro fluoride release from a different kind of conventional and resin modified glass-ionomer cements, *Bosnian Journal of Basic Medical Sciences*, 13(3), 197-202. (Web of Science-SCI Expanded)
24. Gutić, S., **Korać, F.**, Kurtić, R., Šehovac, S., Dizdar, M (2013) Polianilinski filmovi na aktivnim substratima – uticaj ultrazvuka na adheziju i elektrohemijske osobine, *Zaštita materijala i životne sredine*, 2, 107-111. ISSN 1800-9573, COBISS.CG-ID 20193296
25. Avdić, N., **Korać, F.**, Nuhanović, M. (2013) Mogućnosti rekonstrukcije malih postrojenja za prečišćavanje komunalnih otpadnih voda izrađenih 90-tih godina, u moderna postrojenja, *Zaštita materijala i životne sredine*, 2, 97-106. ISSN 1800-9573, COBISS.CG-ID 20193296
26. **Korać, F.**, Gutić, S., Zukić, I., Ostojić, J., Herenda, S., Gojak-Salimović, S. (2013) Anticorrosion performance of eco-friendly paint coatings, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 41, 37-47. (Chemical Abstracts Service, EBSCO Host)
27. Karaman, N., Aliefendić, M., Pljuc, S., Kozlica, Dž., Nalić, N., **Korać, F.**, Gutić, S. (2015) Solid state synthesis and characterization of LiFePO₄/C as cathode material for Li-ion batteries, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 45, 19-22. (Chemical Abstracts Service, EBSCO Host)
28. Kozlica, Dž., **Korać, F.**, Gutić, S. (2015) Graphite, Graphite Oxide, Graphene Oxide, and Reduced Graphene Oxide as Active Materials for Electrochemical Double Layer Capacitors: A comparative Study, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 45, 35-38. (Chemical Abstracts Service, EBSCO Host)
29. Halilović, N., Gutić, S., **Korać, F.**, Avdić, N. (2015) Interpretation of results obtained from test purification of wastewater with zinc electrodes, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 45, 51-56. (Chemical Abstracts Service, EBSCO Host)
30. Herenda, S., **Korać, F.**, Gutić, S., Kalem, E. (2016) Uticaj vremena eksploatacije rastvora za pasivaciju na kvalitet pasiviranih cinkanih prevlaka/The effect of exploitation time of passivating solution on the quality of passivated zinc coatings, *Treći međunarodni Simpozijum o koroziji i zaštiti materijala i životnoj sredini*, Bar, 12-15. oktobar, Knjiga radova, P 271-276.
31. Gutić, S., Cacan, M., **Korać, F.** (2017) Electrodeposition of polyaniline films on stainless steel and their voltammetric behavior in corrosive environments, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 48, 45-50. (Web of Science - Emerging Sources Citation Index)

32. Avdić, N., **Korać, F.**, Kaldžija, N. (2017) Idejno rješenje obrade otpadne vode iz industrije prerade mesa biljnim uređajima, *Zaštita materijala i životne sredine*, 1, ISSN 1800-9573. COBISS.CG-ID 20193296
33. Marjanović, A., Đeđibegović, J., Popovac, S., Omeragić, E., **Korać, F.**, Čaklovića, F., Turalić, A., Šober, M. (2017) Optimization of the spectroscopic method using potassium peroxymonosulfate for determination of antioxidant capacity, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 49, 31-34. (Web of Science - Emerging Sources Citation Index)
34. Gutić, S., Kozlica, Dž., **Korać, F.**, Bajuk-Bogdanović, D., Mitrić, M., Mirsky, V., Mentus, V. S., Pašti A. I. (2018) Electrochemical tuning of capacitive response of graphene oxide, *Physical Chemistry Chemical Physics*, 20(35), 22698-22709. (Current Contents)
35. Burović, S., **Korać, F.**, Huremović, J., Ostojić, J. (2018) Atmospheric Corrosion of Metals in Urban Area, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 51, 25-33. (Web of Science - Emerging Sources Citation Index)
36. Gojak-Salimović, S., **Korać, F.**, Zejnilagić-Hajrić, M., Nuić, I. (2018) Physical Chemistry for Undergraduate Students: Sources of Students' Difficulties and Potential Solutions, *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 51, 35-40. (Web of Science - Emerging Sources Citation Index)
37. **Korać, F.**, Muratović, D. (2019) Controlled Release of Ranitidine from Conductive Polypyrrole Films, *Technologica Acta*, 11, 2, 25-32. (CAB Abstracts, Index Copernicus EBSCO)
38. Scepanovic, J., Asanovic, V., Herenda, S., Vuksanovic, D., Radonjic, D., **Korac, F.** (2019) Microstructural Characteristics, Mechanical Properties, Fracture Analysis and Corrosion Behavior of Hypoeutectic Al-13.5 Si Alloy, *International Journal of Metalcasting*, 1-15. (Current Contents)
39. Muratović, S., **Korać, F.**, Brodlija, K., Džomba, E., Čengić-Džomba, S., Muratović, A., Hadžić, Dž. (2019) Sadržaj kadmija, žive i željeza u jetri i bubrezima janjadi na području općina Kakanj i Zenica, *Krmiva – časopis o hranidbi životinja, proizvodnji i tehnologiji krme*, 60, 2. (CAB International)
40. Šćepanović, J., **Korać, F.**, Gutić, S., Ostojić, J., Herenda, S., Bunjo, A., Korać, S. (2019) Inhibition of Iron Corrosion in Seawater Using Rosemary Extracts (*Rosmarinus officinalis* L.) *Glasnik hemičara i tehnologa Bosne i Hercegovine/Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 52. (Prihvatno pismo) (Web of Science - Emerging Sources Citation Index)
41. Šćepanović, J., Asanović, V., Radonjić, D., Vuksanović, D., Herenda, S., **Korać, F.**, Bikić, F. (2019) Mechanical properties and corrosion behaviour of Al-Si alloys for IC engine, *Journal of the Serbian Chemical Society*, 84(0), 1-14. (Web of Science-SCI Expanded)
42. Sanjin J. Gutić, Muharema Šabanović, Dino Metarapi, Igor A. Pašti, Fehim Korać, Slavko V. Mentus (2019) Electrochemically Synthesized Ni@reduced Graphene Oxide Composite Catalysts for Hydrogen Evolution in Alkaline Media – the Effects of Graphene Oxide Support. *Int. J. Electrochem. Sci.*, 14 (2019) 8532 – 8543, doi: 10.20964/2019.09.23

43. Dejana Kasapović, Fehim Korać, Farzet Bikić (2022) Testing the effectiveness of raspberry flower extract as an inhibitor of copper's corrosion in 3% NaCl, *Zaštita Materijala* 63 (2) 115 – 121 (2022)
44. Kasapović D., Klepo L., Ostojić J., Korać F. (2022) Investigation of Inhibitory Effect of the *Rubus idealis* L. Extract on Corrosion of Copper, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 59. p 1-12

Conference papers

1. Lekić, M., **Korać, F.**, Nikolin, B. (1999) Improved Thin-Layer Chromatography for Analyses of Insecticides in Water, *Balaton Symposium '99 On High-Performance Separation Methods*, Siofok, Hungary, September 1-3, Book of Abstracts, P-45.
2. Lekić, M., **Korać, F.**, Šober, M., Imamović, B. (2002) Thin-Layer Chromatography of Chlorophenoxy Herbicides, *7th International Symposium Advances in Analytical Separation Science*, Poertschach, Austria, June 3-5, Book of Abstracts, 105, P 47.
3. Šober, M., Imamović, B., Lekić, M., **Korać, F.** (2002) Determination of Chlorophenoxy Herbicides, *7th International Symposium Advances in Analytical Separation Science*, Poertschach, Austria, June 3-5, Book of Abstracts, 134, P 76.
4. **Korać, F.**, Lekić, M., Marjanović, A., Šober, M., (2006) Chromatographic examination of trenbolon acetate and melengestrol acetate, *Prvi kongres farmaceuta Bosne i Hercegovine sa međunarodnim učesćem*, Sarajevo, 04-06.05., Book of Abstracts, P-45, 147.
5. Lekić, M., **Korać, F.**, Šober, M., Marjanović, A. (2006) Planar chromatography of steroid hormones and anabolics", *12th International Symposium on Separation Sciences*, Lipica, Slovenia, September 27-29, Book of Abstracts, 190-191, P-42.
6. Lekić, M., **Korać, F.** (2006) Separation of Organochlorine and Organophosphate insecticides ba Planar Chromatography, Persistent pollutants in rivers in Bosnia and Herzegovina, *Workshop*, Unitic, Sarajevo, November 2, Predavanje po pozivu, štampano u cjelini.
7. **Korac, F.**, Lekic, M., Hrcic, N., Rimpapa, Z. (2007) Monitoring the level of chromium in urine of patients with diabetes mellitus by atomic absorption spectrometry, *4th Congress of Pharmacy of Macedonia*, September 26-30, Ohrid, Macedonia, *Macedonian pharmaceutical bulletin*, 53(1,2), 181, PP-80.
8. Rimpapa, Z., **Korac, F.**, Toromanovic, J., Pleho-Kapic, A., Tahirovic, I., Sofić, E. (2008) Utilisation of photolysis of neutral red for analysis of various flowers of medicinal plants from Bosnia, *7th Joint Meeting of GA, AFERP, ASP, PSE & SIF*, Athens, Greece, August 3–8, *Planta Medica*, 74(9), 11. (*Web of Science-SCI Expanded*)
9. Hasic-Brankovic, L., Lekic, M., Konjhodzic, H., Kobaslija, S., **Korac, F.** (2009) Effect of three topical fluoride solutions on fluoride level in plaque, *14th Congress of Balkan Stomatological Society, 9th Scientific Congress of Bulgarian Dental Association*, 6-9 May, Varna, Bulgaria, Abstract Book, 114, PP 158.
10. Islamović, S., Cacan, M., Gutić, S., **Korać, F.** (2010) Electrochemical characterization of metal disinfectant, *XII YUCORR Scientific/Research Symposium, International Conference, Cooperation of researches of different branches in the fields of corrosion, materials protection and environmental protection*, 18-21.05.,Tara, Serbia, Book of Abstracts, 186-187, P-54.

11. Pepić, E., Pleho-Kapić, A., Fajkić, A., Ibrahimpašić, E., Šečić, D., Džubur, A., Mušanović, J., Kurbaši, I., **Korać, F.** (2010) Serum lipoproteins and ischemic vascular disease, *5th Congress of Cardiologists and Angiologists of Bosnia and Herzegovina*, Sarajevo, 27-29.05., Book of Abstracts, e-poster, 148-149.
12. 15. Šečić, D., Pepić, E., Ibrahimpašić, E., Kapić-Pleho, A., Kurbašić, I., Tiro, N., **Korać, F.** (2010) Noise influence to triacylglycerols (triglycerides) among industrial workers, *5th Congress of Cardiologists and Angiologists of Bosnia and Herzegovina*, Sarajevo, 27-29.05., Book of Abstracts, e-poster, 150-151.
13. Muslimović, A., Cacan, M., **Korać, F.**, Gojak, S., Ostojić, J., Gutić, S. Islamović, S. (2011) Hemijska i elektrohemijska sinteza polianilina u sulfatnoj kiselini, *XIII YUCORR International Conference, Exchanging experiences in the fields of corrosion, materials and environmental protection*, 05-08.04., Tara-Serbia, Book of Abstracts, 95-96.
14. Islamović, S., **Korać, F.**, Ostojić, J., Kezo, M., Gutić, S., Koštroman, L., Halilović, A. (2012) Korozivne karakteristike aluminija u uvjetima eksploatacije, *IX Susret mladih hrvatskih kemijskih inženjera*, 16-17.02., Zagreb, Hrvatska, Book of Abstracts, 135, P-13.
15. Semić, I., Ostojić, J., Gutić, S., **Korać, F.**, Čavar, S. (2012) The Impact of some 4-Methylcoumarins on the Physico-Chemical Characteristic of Zinc Coating, *IX Susret mladih hrvatskih kemijskih inženjera*, 16-17.02., Zagreb, Hrvatska, Book of Abstracts, 168.
16. Dautbašić, A., Čatić, S., Odobašić, A., Husejin, K., **Korać, F.** (2012) Korozija implantata na bazi nehrđajućeg čelika u fiziološkoj otopini/Corrosion of implantats based on stainless steel in saline, *IX Naučno-stručni simpozij sa međunarodnim učešćem „Metalni i nemetalni materijali“* Zenica, BiH, 23-24.04., (stručni rad), Zbornik radova,
17. Avdić, N., **Korać, F.** (2013) Purification of wastewater in fur industry, *14th European Meeting on Environmental Chemistry*, 4-7 December, Budva, Montenegro, Abstract Book, p W107, p 133.
18. Veletovac, I., Ostojić, J., **Korać, F.**, Gutić, S., Herenda, S., Vidic, D. (2014) Inhibition of Iron Corrosion with Lavender Extracts as Eco-acceptable Inhibitors, *1st International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 10-12.10., Sarajevo, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue*, PP-PTC-09. P 141.
19. Gutić, S., **Korać, F.**, Delić, S., Jukić, M., Hošić, E. (2014) Electrochemical Synthesis and Study of Polyanilines with Covalently Attached Acidic Groups, *1st International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 10-12.10., Sarajevo, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue*, OP-06. P. Sarajevo, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina, Special Issue*, PP-CAM-01. P 152.
20. Halilović, N., Malinović, B., Gutić, S., **Korać, F.**, Avdić, N. (2015) Electrochemical Treatment of Leader Industry Wastewater, *5th REGIONAL SYMPOSIUM ON ELECTROCHEMISTRY SOUTH EAST EUROPE*, June 7-11, RIU Pravets, Pravets, Bulgaria. Book of Abstracts, IND-P-11, p. 139.
21. Sprečo, L., **Korać, F.**, Ostojić, J., Herenda, S. (2016) Hibiscus Extract (*Hibiscus syriacus* L.) as a Corrosion Inhibitor Selected Targets in Sulfuric Acid, *XVIII YUCORR »Meeting Point of the Science and Practice in the Fields of Corrosion, Materials and Environmental Protection«* 12-15.04., Tara.

22. Kozlica, Dž., Pljuco, S., Metarapi, D., **Korać, F.**, Gutić, S. (2016) The Effect of Natural Graphite Pretreatment on Electrochemical Behavior of Graphene Oxide, *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*. 21-23.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Book of Abstracts, P 23.
23. Pljuco, S., **Korać, F.**, Kozlica, Dž., Gutić, S. (2016) Synthesis and Electrochemical Performances of $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Based Materials in Non-aqueous Electrolyte, *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 21-23.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Book of Abstracts, P 24.
24. Sakač, N., Herenda, S., **Korać, F.**, Ostojić, J., Bešić, Z. (2016) A Novel, Low-cost, Disposable Wooden Pencil Graphite Electrode for Peroxide Determination, *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 21-23.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Book of Abstracts, P 46.
25. Bešić, Z., Herenda, S., Đokić, N., Ostojić, J., **Korać, F.** (2016) Chronoamperometric Determination of the Michaelis-Menten Constants of Immobilized Peroxidase, *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 21-23.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Book of Abstracts, P 131.
26. Stanković, T., Herenda, S., Bešić, Z., **Korać, F.**, Ostojić, J. (2016) Investigation of the Effect of Ranitidine on the Peroxidase Activity on a Modified Glassy Carbon Electrode, *2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 21-23.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Book of Abstracts, P 132.
27. Hajdar, A., Muratović, S., Džomba, E., Sarić, Z., **Korać, F.**, Čengić-Džomba, S., Hadžić, Dž. (2017) Sadržaj dušika i sumpora u obrocima mliječnih krava farme 'Bojnik' – Kanton Sarajevo/The content of nitrogen and sulfur in nutrition of dairy cattle on the farm 'Bojnik' – Sarajevo Canton, *KRMIVA 2017. XXIV Međunarodno savjetovanje. 24th International Conference*. May 31-June 2.
28. Gutić, S. J., Pašti, I. A., Dobrota, A. S., **Korać, F.**, Metarapi, D., Oprašić, N. (2017) Promotion effects of reduced graphene oxide on catalytic properties of nickel towards the hydrogen evolution reaction, *6th RSE-SEE Conference*, Balatonkenese, Hungary, 11-15 June, Book of abstracts, p 63.
29. Korać, S., Hrnić, A., **Korać, F.**, Dobrota, A. S., Pašti, I. A., Gutić, S. J. (2018) Elektrokemijska redukcija fluoriranog grafenovog oksida – trendovi kapaciteta u vodenom elektrolitu/Electrochemical reduction of fluorinated graphene oxide – capacitive trends in aqueous electrolyte, *XII susret mladih kemijskih inženjera*, Zagreb, 22-23.02. Knjiga sažetaka, str. 168
30. Šabanović, M., Metarapi, D., Dobrota, A. S., **Korać, F.**, Pašti, I. A., Gutić, S. J. (2018) Elektrodepoziti nikla na reduciranom grafenovom oksidu kao elektrokatalizatori za reakciju razvijanja vodika/Nickel electrodeposits on the reduced graphene oxide as electrocatalysts for hydrogen evolution reaction, *XII susret mladih kemijskih inženjera*, Zagreb, 22-23.02. Knjiga sažetaka, str 189.

31. Gojak-Salimović, S., **Korać, F.**, Zejnilagić-Hajrić, M., Nuić, I. (2018) Physical Chemistry for Undergraduate Students: Integrating Knowledge from Mathematics, Physics and Chemistry, *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 19.-21.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, Book of Abstracts, p 96.
32. Burović, S., **Korać, F.**, Huremović, J., Ostojić, J. (2018) Atmospheric Corrosion of Metals in Urban Area, *3rd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*, 19.-21.10., Sarajevo, *Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, Book of Abstracts, p 106.
33. F. Korać, S. Burović, S. Korać (2019) Comparison of corrosion stability of alloyed materials based orthopedic implants, *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 38*
34. Dejana Kasapović, Fehim Korać, Farzet Bikić (2021) Testing the effectiveness of raspberry flower extract as an inhibitor of copper's corrosion in 3%NaCl, Oral presentations, XXII YUCORR 2021, International conference - Meeting point of the science and practice in the fields of corrosion, Materials and environmental protection, September 13-16, 2021, Tara Mountain, Serbia
35. Helja, I., Korać, F., Burović, S., Korać, S. (2022) Sage Extracts (*Salvia officinalis* L.) as Iron Corrosion Inhibitors, *ICCCEB&H 2022, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 30th June – 2nd July 2022. Sarajevo, Bosnia and Herzegovina*
36. Sinanović H., Ostojić J., Korać F., Salčinović Fetić A., Sulejmanović S. (2022) Corrosion and biocorrosion properties of selected metallic glasses, *ICCCEB&H 2022, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 30th June – 2nd July 2022. Sarajevo, Bosnia and Herzegovina*
37. Tolić T., Korać F., Klepo L. (2022) Examination of the Effect of pH on the Adsorption of Glyphosate on Pyrophyllite. *ICCCEB&H 2022, 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, 30th June – 2nd July 2022. Sarajevo, Bosnia and Herzegovina*

Reviewed textbooks and teaching aids

1. Cacan, M., **Korać, F.** (2005) *Zbirka zadataka iz fizikalne hemije, (odabrana poglavlja)*, Izdavač Glas medicinara, Sarajevo. (ISBN 9958-5690-1-7)
2. Lekić, M., **Korać, F.** (2001) *Repetitorij iz hemije sa testovima i zadacima za pripremanje kvalifikacionih ispita iz hemije na fakultetima*, Izdavač Sarajevo-Publishing, Sarajevo. (ISBN 9958-21-157-2)
3. Mehić, B., Omerbašić, A., Ibrulj, S., **Korać, F.** (2007/2008) *Informator - upis i studije na Medicinskom fakultetu Univerziteta u Sarajevu*, Izdavač Medicinski fakultet, Sarajevo. (ISSN 1512-763X)
4. **Korać, F.**, Gutić, S., Gojak, S., Islamović, S., Ostojić, J. (2013) *Praktikum fizikalne hemije (prvi dio)*, Izdavač Prirodno-matematički fakultet Univerziteta u Sarajevu. (ISBN 978-9958-592-41-6, COBISS.BH-ID 20563718)
5. Ibrulj, S., Omerbašić, A., **Korać, F.** (2014) *Zbirka zadataka za prijemni ispit na Medicinskom fakultetu Univerziteta u Sarajevu*. Izdavač Medicinski fakultet Univerziteta u Sarajevu (prvo izdanje) (ISSN 1512-763X)

- 6 **Korać, F.**, Gutić, S., Herenda, S., Ostojić, J., Gojak-Salimović, S. (2017) *Praktikum iz korozije i zaštite*, Izdavač Prirodno-matematički fakultet Univerziteta u Sarajevu. (ISBN 978-9958-592-98-0, COBISS.BH-ID 24507398)
- 7 **Korać, F.**, Gutić, S., Ostojić, J., Herenda, S., Gojak-Salimović, S. (2019) *Praktikum iz elektrohemije*, Izdavač Prirodno-matematički fakultet Univerziteta u Sarajevu. (ISBN 978-9926-453-17-6, COBISS.BH-ID 27108102)

Reviews of books and textbooks

- 2012 *Zbirka zadataka iz fizikalne hemije (struktura materije)*, autor: Sabina Gojak (2012) Izdavač: Prirodno-matematički fakultet Univerziteta u Sarajevu. (ISBN 978-9958-592-31-7)
- 2014 *Eksperimentalna fizikalna hemija sa teoretskim osnovama*, autori: Amra Odošić, Sead Ćatić, Amra Bratovčić, Indira Šestan, Husejin Keran (2014) Izdavač: „OFF-SET“ Tuzla (ISBN 978-9958-31-176-5)
- 2016 *Eksperimentalna fizikalna hemija sa teoretskim osnovama - drugo izdanje*, autori: Amra Odošić, Sead Ćatić, Amra Bratovčić, Indira Šestan, Husejin Keran (2016) Izdavač: „IN SCAN“ d.o.o. Tuzla, (ISBN 978-9958-894-32-9)
- 2016 *Fizikalna hemija*, autor: Amra Odošić (2016) Izdavač: „IN SCAN“ d.o.o. Tuzla, (ISBN 978-9958-894-33-6)
- 2016 *Korozija i zaštita*, autor: Farzet Bikić (2016) Izdavač: Univerzitet u Zenici, Fakultet za metalurgiju i materijale (ISBN 978-9958-785-41-2)
- 2017 *Kinetika i kataliza*, autor: Sabina Gojak-Salimović (2017) Izdavač: Prirodno-matematički fakultet Univerziteta u Sarajevu. (ISBN 978-9958-592-86-7, COBISS.BH-ID 23734022)

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