

## PERSONAL INFORMATION



## Meliha Zejnilagić-Hajrić

 Zmaja od Bosne 33-35, 71000 Sarajevo, Bosna i Hercegovina

 +387(0)33 279 864

 [mzejnilagic@pmf.unsa.ba](mailto:mzejnilagic@pmf.unsa.ba); [mzejnilagic@yahoo.com](mailto:mzejnilagic@yahoo.com)



Sex Female | Date of birth 23.08.1952. | Nationality BiH

## WORK EXPERIENCE

- 2020 - today **Professor emeritus**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2016 - 2019 **Full professor (Chemistry education)**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2016 - 2019 **Full professor (course Methodology of Scientific Research)**  
University of Sarajevo – Faculty of Pharmacy, Sarajevo, BiH
- 2010 - 2016 **Associate professor (Chemistry education)**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2011 - 2015 **Vice Dean for for Education and Scientific Research**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2005 - 2010 **Associate professor (Chemistry education)**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2006 - 2010 **Associate professor (courses Food technology, Chemistry education)**  
University of Sarajevo – Faculty of Educational Sciences, Sarajevo, BiH
- 1988 - 2005 **Lecturer (courses: Physiology of Nutrition, Food technology, Home economics education)**  
University of Sarajevo – Pedagogical Academy, Sarajevo, BiH
- 1977 - 1988 **Teaching assistant (courses: Physiology of Nutrition, Food technology)**  
University of Sarajevo – Pedagogical Academy, Sarajevo, BiH

## EDUCATION AND TRAINING

- 2003 **Phd in Chemistry education**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 2001, 2002 **Slovenska znanstvena fundacija, Ljubljana/ Slovenian scientific fondation Ljubljana, received scholashiip completing the PhD thesis**  
University of Ljubljana, Slovenija
- 1987 **MSc in agricultural sciences**  
University of Sarajevo – Faculty of Agriculture, Sarajevo, BiH

- 1983 **Study stay for the preparation of a Master's thesis**  
Hohenheim University, Stuttgart, Germany
- 1983 **English language improvement**  
Meads School of English, Eastbourne, England
- 1978 **Professional development program in microbiology**  
Public health institute BiH, Sarajevo, BiH
- 1978 **Professor of Chemistry (Chemistry teacher)**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 1977 **Graduate engineer in chemistry (Dipl. Ing.)**  
University of Sarajevo – Faculty of Science, Sarajevo, BiH
- 1974 **Teacher of chemistry and home economics**  
University of Sarajevo – Pedagogical academy, Sarajevo, BiH

**PERSONAL SKILLS**

**Mother tongue(s)** Bosnian – Croatian – Serbian

**Other languages**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	A1	A1	A1	A1	A1

**Communication skills** Many years of teaching experience in the realization of classes at pre-graduate, undergraduate and post-graduate studies; Many years of teaching experience in teaching at faculties at undergraduate, graduate and postgraduate studies; aptitude for teamwork; good communication skills acquired during work experience, study stays and participation in domestic and international conferences.

Example:  
good communication skills gained through my experience as professor teaching students

**Business or sector** Teaching and research  
Education and scientific research

**Digital competence**

	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Experienced user	Experienced user	Experienced user	Independent user	Independent user

**ADDITIONAL INFORMATION**

## Journal papers

- Zaninović, M., **Zejnilagić-Hajrić, M.** (2021). Stavovi nastavnika i učenika o uporabi modela u procesu poučavanja i učenja sadržaja organske kemije / Attitudes of teachers and students on the use of models in the process of teaching and learning the content of organic chemistry. *Napredak: Časopis za interdisciplinarna istraživanja u odgoju i obrazovanju*, 162 (1-2), 57-73. <https://hrcak.srce.hr/259416> Social Science Premium Collection, Sociological Abstracts, Sociology Collection, ERIC, Hrčak, ERIH Plus, Ebsco Education Source, T&T Educational Research Abstracts Online
- Zejnilagić-Hajrić, M.**, Nuić, I. (2020). Chemistry Education in Bosnia and Herzegovina, *Center for Educational Policy Studies Journal*, Volume 10, Nb. 1, pp. 83-101. Print ISSN 1855-9719 Online ISSN 2232-2647
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2020). Demographic Characteristics of Chemistry Teachers in Croatia Affecting the use of Pre-Laboratory Activities in the Classroom. *Acta Chimica Slovenica Vol.67*, No 2, pp. 435-444. SciFinder (CAS), EBSCO, Web of Science Core Collection, Scopus Print ISSN: 1318-0207 Online ISSN: 1580-3155
- Gojak-Salimović, S., Korać, F., **Zejnilagić-Hajrić, M.**, Nuić, I. (2018). Physical Chemistry for Undergraduate students: Sources of Students' Difficulties and Potential Solutions. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 51, pp. 35-40. CAS, EBSCO, Web of Science Core Collection COBISS.BH-ID – 16153346 Print ISSN: 0367-4444 Online ISSN: 2232-7266
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2018). The use of chemistry learning materials within the pre-learning strategy: findings from a teachers' survey. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 51, pp. 19-23. CAS, EBSCO, Web of Science Core Collection. COBISS.BH-ID – 16153346 Print ISSN: 0367-4444 Online ISSN: 2232-7266
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2017). The Pre-Learning Strategy in Science Using a Textbook: A Case of Croatia. *Gamtamokslinis Ugdymas / Natural Science Education* 14(2), pp. 90-96. Index Copernicus, Directory of Research Journals Indexing (DRJI), WebQualis (QUALIS/CAPES), Open Academic Journals Index (OAJI) e-ISSN 1648-939X
- Krečo, A., **Zejnilagić-Hajrić, M.** (2017). Incorporation of Astronomy Topics in the Chemistry Curriculum at Gymnasiums in Canton Sarajevo, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 49, pp. 49-52. CAS, EBSCO, Web of Science Core Collection. COBISS.BH-ID – 16153346 Print ISSN: 2232-7266 Online ISSN: 2232-7266
- Zejnilagić-Hajrić, M.** (2015) About Evaluation in Chemistry Education, *Celar Bayar University Journal of Science*, Volume 11, Issue 3, pp. 329-333. Index Copernicus, Directory of Open Access Journals (DOAJ), Open Academic Journals Index (OAJI) ISSN 1305-130X | e-ISSN 1305-1385
- Zejnilagić-Hajrić, M.**, Nuić, I. (2015) Demonstration in Teaching Chemistry: The Case of Two High-Schools from Sarajevo Canton, *Celar Bayar University Journal of Science*, Volume 11, Issue 3, pp. 325-328. Index Copernicus, Directory of Open Access Journals (DOAJ), Open Academic Journals Index (OAJI) ISSN 1305-130X | e-ISSN 1305-1385
- Zejnilagić-Hajrić, M.**, Šabeta, A., Nuić, I. (2015) The effects of problem-based learning on students' achievements in primary school chemistry. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 44, pp. 17-22. CAS database COBISS.BH-ID – 16153346 Print ISSN: 0367-4444 Online ISSN: 2232-7266
- Zejnilagić-Hajrić, M.**, Delić, E, Nuić, I. (2015). Students with disabilities and chemistry education: Possibilities and difficulties. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 44, pp. 65-70. CAS database Print ISSN: 0367-4444 Online ISSN: 2232-7266 COBISS.BH-ID - 16153346
- Nuić, I., Kafedžić, L., **Zejnilagić-Hajrić, M.** (2013). Mogućnosti u nastavi kemije za učenike s teškoćama u razvoju. *Didaktički putokazi* 19 (65), pp. 80-85. COBISS.BH-ID 7311366 ISSN 1512-5998
- Gojak, S., Galijašević, S., Hadžibegović, Z., **Zejnilagić-Hajrić, M.**, Nuić, I., Korać, F. (2012) Integrated knowledge of physics and chemistry: case of Physical Chemistry course. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina* 38, pp. 43-51. CAS database Print ISSN: 0367-4444 Online ISSN: 2232-7266 COBISS.BH-ID – 16153346
- Zejnilagić – Hajrić, M.**, Nuić, I. (2011). Amedeo Avogadro i pojam molekule. *Mol. Hemijski pregled*, 52 (5), pp. 137-140, Beograd: Srpsko hemijsko društvo ISSN: 0440-6826 CAS database
- Hadžibegović, Z., Nuić, I., Galijašević, S., **Zejnilagić-Hajrić M.** (2011). Informatička i informacijska pismenost studenata: slučaj studenata kemije i početni rezultati istraživanja, *Didaktički putokazi* 17 (59), pp. 6-12. COBISS.BH-ID 7311366 ISSN 1512-5998
- Zejnilagić-Hajrić, M.**, Vidović, I. (2010). Istorijski razvoj spoznaje o atomu, *Hemijski pregled* 50 (5), pp. 132-137. Beograd: Srpsko hemijsko društvo. ISSN: 0440-6826 CAS database
- Zejnilagić-Hajrić, M.**, Marjanović, S. (2010). Upotreba konceptnih mapa u nastavi hemije / The used of Concept Map in Chemistry Teaching. *Technologica Acta*, 3 (1), pp. 49-55. Tuzla: Technological Faculty, University of Tuzla. CAB Abstracts, Index Copernicus Journal Master List, EBSCO. ISSN - 1840-0426 COBISS.BH-ID - 14929670
- Zejnilagić-Hajrić, M.** (2010). Važnost planiranja u nastavi. *Educa* 3 (3), pp. 108-118. ISSN 1849-3301 COBISS.BH-ID 16413702
- Zejnilagić-Hajrić, M.** (2010). Primjena pojmovnih mapa u nastavi. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja* 52 (222), pp. 81-85. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (2009). Potreba za edukacijom i permanentnim stručnim usavršavanjem nastavnika. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja* 50 (220), pp. 83-86. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (2009). Model nastavne pripreme za VIII razred osnovne škole – Proteini. *Hemijski Pregled* 50(6), pp. 159-162. Beograd: Srpsko hemijsko društvo ISSN: 0440-6826 CAS database

- Zejnilagić-Hajrić, M.** (2004). Kultura življenja – Gospodinjstvo v Bosni in Hercegovini. *Bilten Strokovno glasilo Letnik XVI* (31). Ljubljana: Združenje za ekonomiko gospodinjstva Slovenije, p. 46. ISSN: 0353-3433
- Zejnilagić-Hajrić, M.**, Miličević, V. (2000). Analiza testova iz hemije za upis na studij Stomatološkog fakulteta i upisanih studenata Pedagoške akademije u Sarajevu. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja XLVI* 46 (13), pp. 21-27. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (2000). Analiza ankete za snimanje uslova za izvođenje nastave ekonomike domaćinstva u osnovnim školama sa područja Kantona Sarajevo. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja XLVI* (14), pp. 81-85. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (1998). Aspekti zdrave ishrane. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja* 45 (3), pp. 115-117. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (1998). Predmet i zadatak metodike nastave hemije. *Naša škola - Časopis za teoriju i praksu odgoja i obrazovanja* 45 (4), pp. 79-82. COBISS.BH-ID 88343 ISSN 0547-308X
- Zejnilagić-Hajrić, M.** (1978). Stvaralački pristup radu - Kako opremiti kabinet za hemiju u školi. *Prosvjetni list* 574 / 78, p. 10. ISSN - 0033-1678, COBISS.BH-ID – 105239

#### Proceedings

- Zejnilagić-Hajrić, M.**, Rajić, S., Nuić, I. (2017). Computers in the Chemistry Classroom: an Example of Teaching Soaps and Detergents. In: *Book of Proceedings of 3rd International Turkic World Conference on Chemical Sciences and Technologies (ITWCCST 2017 Conference)*, 10.-13.09.2017. Baku, Azerbaijan, pp 12-13.
- Zejnilagić-Hajrić, M.**, Nuić, I. (2016). Study Programmes and Practical Work for Chemistry Student-Teachers in Bosnia and Herzegovina - *Science Education Research and Practical Work*. In: I. Eilks, S. Markic & B. Ralle (Eds.) *Science education research and practical work: A collection of invited papers inspired by the 23<sup>rd</sup> Symposium on Chemistry and Science Education*, TU Dortmund University, Dortmund, 26-28 May 2016, pp. 215-220. Aachen: Shaker Verlag, Germany. ISBN 978-3-8440-4773-8 ISSN 1610-3912
- Smerdel, S., **Zejnilagić-Hajrić, M.**, (2016). The Impact of Research-Based Laboratory Activities on the Students' Affective Experience - *Science Education Research and Practical Work*. In: I. Eilks, S. Markic & B. Ralle (Eds.) *A collection of invited papers inspired by the 23<sup>rd</sup> Symposium on Chemistry and Science Education*, TU Dortmund University, Dortmund, 26-28 May 2016, pp. 221-226. Aachen: Shaker Verlag, Germany. ISBN 978-3-8440-4773-8 ISSN 1610-3912

## Proceedings

- Zejnilagić-Hajrić, M.**, Hodžić, E., Nuić, I. (2016). Poučavanje i učenje hemije primjenom konceptnih mapa. *Zbornik radova sa znanstveno-stručne međunarodne konferencije: "Ka novim iskoracima u odgoju i obrazovanju"*, Zbornik radova odsjeka za pedagogiju, Godina 1, broj 1 (2016) *Tematska grupa III*, pp. 292-303. Sarajevo: Filozofski fakultet Univerziteta u Sarajevu. ISSN 2490-2292 (On-Line)
- Zejnilagić-Hajrić, M.**, Haskić, M., Nuić, I. (2014). Sustainable Development in Bosnia and Herzegovina - Current Environmental Situation and Possibilities. In: I. Eilks, S. Markić & B. Ralle (Eds.) *Science education research and education for sustainable development: A collection of invited papers inspired by the 22<sup>nd</sup> Symposium on Chemistry and Science Education held at the University of Bremen*, Bremen, June 19-21, 2014, pp. 285-290. Aachen: Shaker Verlag, Germany. ISBN 978-3-8440-3150-8 ISSN 1610-3912
- Zejnilagić-Hajrić, M.**, Nuić, I. (2014). Frequency of Experiments in Chemistry Education. In: M. Nodzyńska, P. Ciesła & A. Kania (Eds.) *6th International conference on Research in Didactic of the Sciences*, 2014 June 25th - 27th, Krakow, *Experiments in teaching and learning natural sciences*, pp. 38-40. Krakow: Pedagogical University of Krakow, Poland. ISBN 978-83-7271-878-5
- Zejnilagić-Hajrić, M.**, Dželović, S., Nuić, I. (2014). Attitudes and Achievements of High-School Students in Chemistry. In: M. Nodzyńska, P. Ciesła & A. Kania (Eds.) *6th International conference on Research in Didactic of the Sciences*, 2014 June 25th - 27th, Krakow *Teaching and Learning Science at all Levels of Education*, pp. 144-147. Krakow: Pedagogical University of Krakow, Poland. ISBN 978-83-7271-880-8
- Pezo, J., **Zejnilagić-Hajrić, M.** (2012). Mogućnosti primjene informacione tehnologije u nastavi hemije. *Zbornik radova: Tehnika i informatika u obrazovanju, 4. Internacionalna konferencija, Knjiga I*, pp. 345-351. Čačak: Tehnički fakultet. ISBN 978-86-7776-138-7 COBISS.SR-ID 191226636
- Hadžibegović, Z., **Zejnilagić-Hajrić, M.**, Galijašević, S., Nuić, I. (2012). Bolonjska reforma studija: analiza efikasnosti studija hemije i fizike na Prirodno – matematičkom fakultetu. *Zbornik radova, VI savjetovanje o reformi visokog obrazovanja „Kontinuitet reforme visokog obrazovanja“*, pp. 249-263. Sarajevo: Univerzitet u Sarajevu. ISBN 978-9958-600-45-6 COBISS.BH-ID 20258566 C.E.E.O.L. database
- Škrijelj, R., Kalabušić, S., **Zejnilagić-Hajrić, M.**, Milošević, D. (2012). Finansijski efekti i implementacija Bolonjskog procesa: osvrt na organizaciju i nivo zainteresiranosti polaznika na prvi i drugi ciklus studija na Prirodno-matematičkom fakultetu Univerziteta u Sarajevu. *Zbornik radova: VI savjetovanje o reformi visokog obrazovanja „Kontinuitet reforme visokog obrazovanja“*, pp. 239-247. Sarajevo: Univerzitet u Sarajevu. ISBN 978-9958-600-45-6 COBISS.BH-ID 20258566 C.E.E.O.L. database
- Nuić, I., **Zejnilagić-Hajrić, M.**, Sliško, J., Javomirski, I. (2012) The experiment with burning candle: What pupils remember one year later and what they think after seeing it again? *Issues of Heterogeneity and Cultural Diversity in Science Education and Science Education Research: A collection of invited papers inspired by the 21st Symposium on Chemical and Science Education held at the University of Dortmund*, Dortmund, May 17-19, 2012, pp. 207-210. Dortmund, Germany.
- Zejnilagić-Hajrić, M.**, Nuić, I., Šabeta, A. (2012). Uočene poteškoće prilikom usvajanja znanja iz hemije. *Zbornik radova: IV Međunarodni naučno-stručni skup Edukacija za budućnost*, pp. 847-856. Zenica: Univerzitet u Zenici. COBISS.BH-ID 20370694
- Nuić, I., **Zejnilagić-Hajrić, M.**, Hadžibegović, Z., Galijašević, S. (2011). Konceptualne poteškoće i načini rješavanja uočenih problema studenata kemije na Prirodno-matematičkom fakultetu Sarajevo, *Zbornik radova: V Savjetovanje Reforma visokog obrazovanja „Daljnji trendovi reforme visokog obrazovanja po Bolonjskim principima“*, pp. 275-285, Sarajevo: Univerzitet u Sarajevu ISBN 978-9958-600-27-2 COBISS.BH-ID 19283718 C.E.E.O.L. database
- Zejnilagić-Hajrić, M.**, Hadžibegović, Z., Nuić, I. i Galijašević, S. (2011). Informatička pismenost i upotreba računara u nastavi: slučaj studenata hemije i fizike Univerziteta u Sarajevu. *Zbornik radova naučno-stručnog simpozijuma sa međunarodnim učešćem: Tehnologija, informatika i obrazovanje – za društvo učenja i znanja, TIO6*, Knjiga II, pp. 548-557. Čačak: Tehnički fakultet Čačak. ISBN 978-86-7776-127-1 COBISS.SR-ID 184046348
- Zejnilagić-Hajrić, M.**, Hadžibegović, Z., Galijašević, S., Vidović, I. (2010). Značaj integriranih znanja iz hemije i fizike studenata na Prirodno-matematičkom fakultetu Sarajevo u svjetlu Bolonjskog modela studija. *Zbornik radova: IV Savjetovanje: Reforma visokog obrazovanja „Razvoj sistema upravljanja kvalitetom u visokom obrazovanju“*, pp. 379-394. Sarajevo: Univerzitet u Sarajevu. ISBN 978-9958-600-23-4 COBISS.BH-ID 18437126 C.E.E.O.L. database
- Zejnilagić-Hajrić, M.**, Karić, M. (2010). Socijalni oblici rada u nastavi hemije. *Zbornik radova: IX savjetovanje hemičara i tehnologa Republike Srpske*, pp. 56-61. Banjaluka: Tehnološki fakultet, Univerzitet u Banjoj Luci. ISBN 978-99938-54-36-4 COBISS.BH-ID 1851672
- Zejnilagić-Hajrić, M.**, Hadžibegović, Z., Galijašević, S., Vidović, I. (2010). Metodološki postupci i rezultati longitudinalnog istraživanja realizacije programa opće fizike i kemije na prvoj godini studija kemije na Univerzitetu u Sarajevu, *Zbornik radova: III Međunarodni naučno-stručni skup „Edukacija nastavnika za budućnost“*, pp. 1051-1062. Zenica: Univerzitet u Zenici. ISBN 978-9958-615-25-2 COBISS.BH-ID 18971142
- Zejnilagić-Hajrić, M.** (2008). Zastupljenost istorije hemije u udžbenicima za osnovnu i srednju školu. *Zbornik radova: VIII Savjetovanje hemičara i tehnologa Republike Srpske*, p p. 51-63. Banja Luka: Tehnološki fakultet, Univerzitet u Banjoj Luci. ISBN 978-99938-54-27-2 COBISS.BH-ID 919320
- Zejnilagić-Hajrić, M.** (1986). Vitamini u mlijeku i mliječnim proizvodima. *Zbornik radova nastavnika Pedagoške akademije u Sarajevu*, pp. 88-93. COBISS.BH-ID – 1009414
- Zejnilagić-Hajrić, M.** (1981). Aktuelnost u primjeni Međunarodnog sistema mjera i jedinica (SI). *Zbornik - Radovi nastavnika Pedagoške akademije u Sarajevu*, pp. 223-226. COBISS.BH-ID - 7689990

## Conference papers

- Nuić, I., Mrdić, M., **Zejnilagić-Hajrić, M.**, Dedić Bukvić, E., Mešanović-Meša, E. (2022) Addressing linguistic and cultural heterogeneity in chemistry classrooms: findings from the in-service teacher training program. *Conference: 4th International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina*. Sarajevo, July 2022 DOI: [10.13140/RG.2.2.29564.62084](https://doi.org/10.13140/RG.2.2.29564.62084)
- Zejnilagić-Hajrić, M.**, Sabljica, L., Nuić, I. (2019). The Use of Demonstration to Improve High-School Students' Conceptual Understanding in Electrochemistry. At: *Book of Abstracts of 3rd International Conference on Innovations in Natural Sciences and Engineering (ICINSE 2019 Conference)*, 25-29 October, 2019. Sakarya, Turkey.
- Zejnilagić-Hajrić, M.** (2018). Značaj izvođenja demonstracionih ogleda u nastavi hemije. *Knjiga sažetaka: 4. Dani kemije 2018, 06.-07.03.2018*. Znanstveno-popularna manifestacija, Fakultet prirodoslovno-matematičkih i odgojnih znanosti Sveučilište u Mostaru: Mostar, Bosna i Hercegovina. p.10.
- Gojak-Salimović, S., Korać, F., **Zejnilagić-Hajrić, M.**, Nuić, I. (2018). Physical Chemistry for Undergraduate Students: Integrating Knowledge from Mathematics, Physics, and Chemistry. *Book of Abstracts: 3rd International Congress of Chemists and Chemical Engineers of B&H*, Sarajevo p. 96.
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2018). The Pre-learning Strategy Using Chemistry Learning Materials: Teachers Approach. *Book of Abstracts: 3rd International Congress of Chemists and Chemical Engineers of B&H*, Sarajevo p. 97.
- Zejnilagić-Hajrić, M.**, Bećiragić, S., Kajević, A., Nuić, I. (2018). Some aspects of primary and secondary education in Canton Sarajevo, Bosnia and Herzegovina. *Book of Abstracts: 4th International Turkic World Conference on Chemical Sciences and Technologies*, Kiev, Ukraine, p. 141.
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2018). Chemistry Teachers' Approach to using Pre-laboratory Activities. *Book of Abstracts: 4th Days of Educational Sciences: The Educational System: a Confining and/or Stimulating Environment*, Zagreb, Croatia. p.91.
- Zejnilagić-Hajrić, M.** (2017). Problemsko poučavanje u nastavi. *Mostar International Conference on Education (MICE) Univerzitet "Džemal Bijedić" u Mostaru Nastavnički fakultet, Mostar*.
- Zejnilagić-Hajrić, M.**, Polutak, A., Nuić, I. (2017). Group Work in Evaluation of Primary School Students' Knowledge about Carbohydrates. *Book of Proceedings: 2nd International Baltic Symposium on Science and Technology Education (BalticSTE2017), "Science and Technology Education: Engaging the New Generation"*. Šiauliai, Lithuania, 12–15 June, 2017. pp. 141-142.
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2017). Pre-learning Activities using a Textbook: A Croatian View. *Book of Proceedings: 2nd International Baltic Symposium on Science and Technology Education (BalticSTE2017) "Science and Technology Education: Engaging the New Generation"*, Šiauliai, Lithuania. 12–15 June, 2017. pp. 125-128.
- Smerdel, S., **Zejnilagić-Hajrić, M.** (2017). Use of Pre-laboratory Activities in Natural Science Education *Book of abstracts: 2nd International Conference of Students of Pedagogy, Mostar, Bosnia and Herzegovina*, pp. 7-8.
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## Projects

- International seminar within the framework of the TEMPUS Project „Improvement of Teaching Quality in South East Europe ( **ITQSEE**) 2003. Sarajevo, B&H.
- **TIMSS**- International project for the selection and adaptation of Chemistry tests for primary and secondary schools, for external evaluation, December 2005. Sarajevo, B&H.
- **IGNHF**- Research on the integration of conceptual knowledge in chemistry/chemistry and physics of first-year students at the Department of Chemistry and the Department of Physics, project manager with project associates Hadžibegović Z., Galijašević S., Vidović I. Gojak-Salimović, S, Korać, F. Faculty of science University of Sarajevo, 2009-2015.
- South East European Center for Entrepreneurial Learning (SEECCEL), in front of the Faculty of Science, University of Sarajevo as "Pilot institution" South East European Center for Entrepreneurial Competences, Zagreb (ISCED 5/6 for higher education) in in cooperation with the European Union, 2014-2016., project manager with project associate Hasović E. Faculty of Science University of Sarajevo.
- Member of the scientific research team in the project Guidelines for the improvement of the teaching profession in 2018 and 2019. Project manager: Doc.dr. Emina Dedić-Bukvić, Faculty of Philosophy, University of Sarajevo (Project received from the Ministry of Education, Science, Culture and Youth of the Canton of Sarajevo, project team member.
- "ENABLE BiH (Enhancing and Advancing Basic Learning and Education in Bosnia and Herzegovina)" (2017-2019) Improving basic learning and education in Bosnia and Herzegovina organized by Save the Children and USAID, project team member.
- Educating Science Teachers for All (ESTA) Project within the framework of Erasmus+ Capacity Building in Higher Education in front of the University of Sarajevo. ESTA- Natural science teacher education for all (January 15, 2020 – January 14, 2024) Project type: Erasmus+ Capacity Building in Higher Education/ Erasmus+, project team member.