



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s)
Address(es)
Telephone(s)
Fax(es)
E-mail
Nationality
Date of birth
Gender

Tuzla, Bosnia and Herzegovina
(00387) 35 32 07 73
indira.sestan@untz.ba
Bosnian
26.12.1982
Female

Desired employment / Occupational field

Asisstant professor of physical chemistry end electrochemistry

Work experience

Dates	From April 2017 - Vice Dean for Academic and Student Affairs
Occupation or position held	From 2016 - Assistant professor of Physical chemistry end electrochemistry
Main activities and responsibilities	The organization classes and teaching
Name and address of employer	University of Tuzla,Tihomila Markovića 1, 75 000 Tuzla, Bosnia and Herzegovina
Type of business or sector	Educational and Research

Education and training

Dates	From July 2010 to January 2015
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Speciation analysis of heavy metals in natural water, adsorption of heavy metal ions from water by kaolin and humic acid, heavy metal biosorption..
Name and type of organisation providing education and training	Faculty of Technology, University of Tuzla
Level in national or international classification	

Education and training

Dates	From September 2008 to November 2010
Title of qualification awarded	Master of science in Chemistry
Principal subjects/occupational skills covered	Physicochemical Measurements, Ion-Selective potentiometry,
Name and type of organisation providing education and training	University of Tuzla, Faculty of Science
Level in national or international classification	

Personal skills and competences

Mother tongue(s)

Bosnian

Other language(s)

English
Deutsch

Self-assessment

European level ()*

Language

	Understanding		Speaking		Writing			
	Listening	Reading	Spoken interaction	Spoken production				
B2		B2	B1		B1		B2	
A2		A2	A1		A1		A1	

Social skills and competences

Team spirit, good ability to adapt to multicultural environment, etc.

Organisational skills and competences

Replace this text by a description of these competences and indicate where they were acquired. (Remove if not relevant, see instructions)

Technical skills and competences

Replace this text by a description of these competences and indicate where they were acquired. (Remove if not relevant, see instructions)

Computer skills and competences

good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™)

Driving licence

Category B

Additional information

1. Mirela Briga, Amra Odobašić, **Indira Šestan**, Sabina Begić. Black seed oil as an additive to honey, European Journal of Food Science and Technology, Vol.7, no.1, pp.15-25, February 2019.
2. Abdel Đozić, **Indira Šestan**, Hana Alihodžić, Nedim Hodžić, Azra Zaimović. Adsorption of Cd (II) from aqueous solution by modified Ca-Bentonite clay. 8th International Conference WATER FOR ALL, 21-21 March 2019, Croatia, oral lectures.
3. Sabina Begić, **Indira Šestan**, Boris Antunović. Application of waste sludge from solvay process for removal of heavy metals from industrial wastewater. International Conference WATER FOR ALL, 21-21 March 2019, Croatia, poster lectures.
4. Amra Bratovcic, Sanela Nazdrajic, Amra Odobašić, **Indira Šestan**. The Influence of Type of Surfactant on Physicochemical Properties of Liquid Soap. International Journal of Materials and Chemistry 2018, 8(2): 31-37, DOI: 10.5923/j.ijmc.20180802.02.

5. **Indira Šestan**, Melisa Ahmetović, Amra Odobašić, Amra Bratovčić, Sabina Begić. Physical and Chemical Characterisation of Agricultural Waste and Testing of Sorbtion Abilities for Removal of Heavy Metals from Aqueous Solutions. International journal for Research in Applied sciences and Biotechnology, DOI: doi.org/10.31033/ijrasb.5.6.1., pp.1-8, Vol.5, Issue 6, 2018.
6. Husejin Keran, Jasmin Suljagić, **Indira Šestan**, Melisa Ahmetović, Amra Odobašić. Bioavailability of lead and cadmium from soil to plant root. Sixth international scientific conference, June 5th - World environment day, Bihać, book of Abstracts, 18-19 june, 2018.
7. Nedim Hodžić, Abdel Đozić, Vahida Selimbašić, Franc Andrejaš, **Indira Šestan**, Hana Alihodžić. Adsorption of cadmium ions from water solutions by modified Ca-bentonite clay. Sixth international scientific conference, June 5th - World environment day, Bihać, Book of Abstracts, 18-19 june, 2018.
8. Adisa Hasanbašić, Emina Tučić, Amra Bratovčić, Amra Odobašić, **Indira Šestan**. Impact of solvent and temperature on solubility and viscosity of expander polystyrene (EPS) - poster presentation, 1st International Students GREEN Conference held at Faculty of Agriculture in Psijek, Croatia, 17-18, May 2018.
9. Amra Bratovčić, Amra Odobašić, **Indira Šestan**, Emina Tučić, Adisa Hasanbašić, Edita Sarić. Determination of physical-chemical properties and stability of orange juice at room temperature. Sixth international scientific conference, June 5th - World environment day, Bihać, Book of Abstracts, 18-19 june, 2018.
10. Amra Bratovčić, Mirnesa Zohorović, Amra Odobašić, **Indira Šestan**. Efficiency of food waste as an organic fertilizer. International Journal of Engineering Sciences/Research Technology, DOI: 10.5281/zenodo. 1299043, Vol. 7 Iss. 6, 527-530, June 2018.
11. **Indira Šestan**, Amra Odobašić, Amra Bratovčić, Melisa Ahmetović, Abdel Đozić. Correlation analysis of metal distribution in the water/sediment system of Modrac lake. International journal of engineering sciences/research technology, DOI: 10.5281/zenodo.1036672, October, 2017.
12. Amra Bratovčić, Amra Odobašić, **Indira Šestan**. The Level of Knowledge on The Use of Titanium Dioxide As a Photocatalyst in Bosnia and Herzegovina. American Journal of Engineering Research, e-ISSN: 2320-0847, p-ISSN: 2320-0936, Volume-6, Issue-2, pp-51-55.
13. Amra Bratovčić, Amra Odobašić, **Indira Šestan**, Vedran Stuhli. Investigation of Copost Quality of Meadow Grass. International Journal of Advances in Agricultural Science and Technology, Vol.4 Issue, October-2017, pg. 18-27.
14. **Indira Šestan**, Amra Odobašić and Amra Bratovčić. The effect of heat treatment on the physical-chemical properties of milk. Academia Journal of Environmental Science 4(7): 131-136, July 2016.
15. **Indira Šestan**, Amra Odobašić, Amra Bratovčić, Almir Šestan. Inorganic Speciation of Lead, Copper and Zinc in the Water of Modrac Lake by Application of DPASV. International Journal of Engineering and Management Research, Volume-6, Issue-3, May-June 2016. ISSN (ONLINE): 2250-0758, ISSN (PRINT): 2394-6962.
16. Amra Odobašić, **Indira Šestan**, Amra Bratovčić. Impact of selection of plant materials on absorption of lead and copper from soil. International Conference 16th Ružička days "Today science - tomorrow industry", Book of abstracts, September 21-23, Vukovar, Croatia, 2016.
17. A.Odobašić, **I.Šestan**, S.Čatić, H.Keran, A.Bratovčić, M.Ahmetović. Biosorption of lead and copper ions from aqueous solution using barley straw as adsorbent. Original scientific paper. Technologica acta, Vol.9, Number 2, page 1-74, 2016.
18. Cipurković Amira, Horozić Emir, Marić Snježana, **Šestan Indira**, Crnkić Aida. Examination of the Co(II) and Mn(II) ions interaction with ascorbic acid using FTIR spectroscopy. XI Conference of Chemists, Technologists and Environmentalist of Republic of Srpska, November 2016.
19. **Indira Šestan**, Amra Odobašić, Amra Bratovčić, Husejin Keran, Ema Obralić. Kinetics of Copper Ions Adsorption from Water Solutions on Humic Matter and Barley Straw. European Journal of Scientific Research. ISSN 1450-216x/ 1450-202X Vol. 140 No 1 June, 2016, pp. 109-113.
20. Amra Bratovčić, Amra Odobašić, S. Čatić, **Indira Šestan**. Application of polymer nanocomposite materials in food packaging", , Croat. J. Food Sci. Technol. (2015) 7 (2), doi: 10.17508/CJFST.2015.7.2.06.

21. Amra Odobašić, **Indira Šestan**, Sead Ćatić, Amra Bratovčić, Muhamed Bijedić. The kinetics of copper ions adsorption from aqueous solutions on natural and comercial adsorbents. 4th scientific symposium with international participation „Enviromental resources, sustainable development and food production“ Novembar, 12-13, 2015, Tehnološki fakultet, Oral presentation.
22. Amra Bratovčić, Amra Odobašić, **Indira Šestan**, Alija Nurkić. Advantages and disadvantages of titanium dioxide photocatalyst.4th scientific symposium with international participation „Enviromental resources, sustainable development and food production“ Novembar, 12-13, 2015, Tehnološki fakultet, Oral presentation.
23. Amra Bratovcic, Amra Odobasic, Sead Catic, **Indira Šestan**. „Applications of nanomaterials in food packing“, 8th International scientific Symposium "Food to Health", 16th October 2015. Tuzla, Bosnia and Herzegovina, Poseter presentaion.
24. Amra Odobašić, **Indira Šestan**, Sead Ćatić, Husejin Keran, Amra Bratovčić, Melisa Ahmetović. Third Scientific Conference with international participation, 5 June, World Environment Day, Bihać, Bosnia and Herzegovina, 4-5 June 2015, „Biosorption of lead and copper ions from aqueous solutions using barley straw as adsorbent“,
25. Amra Bratovčić, Amra Odobašić, **Indira Šestan**, Alija Nurkić. Third Scientific Conference with international participation, 5 June, World Environment Day, Bihać, Bosnia and Herzegovina, 4-5 June 2015, „Photocatalytic treatment of industrial waste water using titanium dioxide“, Amra Bratovčić, Amra Odobašić, Indira Šestan, Alija Nurkić. Oral presentation.
26. **Indira Šestan**, Amra Odobašić, Amra Bratovčić X susret mladih kemijskih inženjera, Faculty of Chemical Engineering and Technology, 20-21 February 2014, „Correlation of physical-chemicalparameters of fresh and thermically processed milk and content of calcium.
27. Aida Crnkić, Almir Šestan, Aldina Kesić, Zorica Hodžić, **Indira Šestan**. Physico-Chemical Properties and Some Heavy Metal Contents in Public Water Sources in Tuzla and its surrounding, Bosnian and Herzegovina. Journal of Scientific Research & Reports 03/2014; 3:1050-1056003.
28. Amra Odobašić, **Indira Šestan**, Sead Ćatić, Husejin Keran, Almir Šestan. Chemical Speciation of Zn in Water of Lake Modrac and Assessment of Toxicity of Water. European Journal of scientific Research. Volume 113, No.4 Oct, 2013.
29. H.Keran, A.Odobašić, S.Ćatić, **I.Šestan**, A.Bratovčić, E.Obračić, E.Omeragić. Essential elements contents determination in milk by applying the voltammetry method. Milk and dairy products, Vol. 24, 2013, pg 51.
30. Amra Odobašić, Maja Hodžić, **Indira Šestan**, Amra Bratovčić, Zahida Ademović "Potentiometric determination of content of potassium in different sorts of fresh and thermally processed tomato "Slovenian Chemical Days, 2013. Usmena prezentacija.
31. Ema Obračić, Sead Ćatić, Amra odobašić, **Indira Šestan**. Methods of applying metal coatings on plastics. Hrvatsko društvo kemijskih inženjera i tehnologa, fakultet kemijskog inženjerstva i tehnologije sveučilišta u Zagrebu, 16-17 februara 2012.
32. H.Keran.A.Odobasic,S.Catic,N.Ahmetovic,M.Salkic, **I.Šestan**. Lead and cadmium concentration in vegetables, the base for the calculation of their index and risk assessment. Journal of Environmental protection and Ecology 12, No 4, 1700-1706 (2011).
33. A.Odobasic,**I.Šestan**,S.Catić,H.Keran.The influence of thermal treatment on the content of calcium in milk. Slovenski kemijski dnevi 2011. Biohemija, biotehnologija in živilska kemija (2011).
34. Amra Odobašić, Selma Tuzlak, Sead Ćatić, Husejin Keran, **Indira Šestan**. Application Ion-selective potentiometry (ISP) for determination chloride ion in natural and drink water. European Journal of scientific Research. ISSN: 1450-216x/1450-202x,(2011)
35. Almir Šestan, Aida Crnkić, **Indira Šestan**, Aldina Kesić, Adem Dautbašić. Chemical analysis of water samples public fountains from Tuzla and surrounding area.15TH international research/expert conference "trends in the development of machinery and associated technology" TMT,2011.
36. Odobašić A.,Ćatić S., Keran H., Pašalić H., **Šestan I.**, ISP metod za kontrolu sadržaja kalcijuma u mlijeku“. Prehrambena industrija, vol.20 No.1-2,(91-94), UDK 637.12:543.532:546.38).,ISSN-0353-6564.(baza:SCindeks),(2009).

37. H.Keran, M.Salkić, A. Odobašić, M.Jašić, N. Ahmetović, **I.Šestan**: "The Importance of Determination of some Physical-Chemical Properties of wheat and flour.". *Agriculturae Conspectus Scientificus*, vol.74, 2009, No.3 (197-200), ISSN 1331-7768. (Časopis indeksiran u bazama: BIOASIS Prewiews, ASFA, Biological Abstracts, CAB Abstracts , GEOBASE,SCOPUS).
38. Petric, I., Šestan, A, **Šestan, I.** (2009): Influence of initial moisture content on the composting of poultry manure with wheat straw. *Biosystems Engineering* 104 (1), 125-134. (ELSEVIER, ISSN:1537-5110) Indeksacija: Current Contents CC, Science Citation Index SCI, Science Citation Index SCI Expanded.
39. Petric, I., Šestan, A, **Šestan, I.** (2009): Influence of wheat straw addition on composting of poultry manure. *Proces Safety and Environmental Protection* 87(3), 206-212. (ELSEVIER, ISSN: 0957-5820) Indeksacija: Current Contents CC, Science Citation Index SCI, Science Citation Index SCI Expanded.
40. H.Keran, A. Odobašić, A.Bratovčić, **I.Šestan**, E. Omeragić: „ Lead and Cadmium content determination in milk by applying the voltammetry method“. *Prehrambena Industrija, Mleko i mlečni proizvodi*, Vol.19. 2008 No.1-2. (34-38),UDK 664,YU ISSN 0353-6564.(baza podataka:SCindeks).
41. Keran H., Odobašić A., Čatić S., Salkić M., Bratovčić A., **Šestan I.**, The influence of different soil conditions to the lead bioavailability to plants, 12th International Research Expert Conference „Trends in the Development of Machinery and Associated Technology“ TMT, Istanbul, Turkey, Proceedings, 2008. 249-252. (ISBN 978-9958-617-41-6).
42. I.Petric, A.Šestan, **I.Šestan**: "Effect of reactor size on composting of agricultural waste",Zbornik radova 37. Međunarodnog simpozija iz područja mehanizacije poljoprivrede, Opatija,februar 2008, str.279.-289.
43. Ivan Petric, Almir Šestan, **Indira Šestan**: "Influence of initial moisture content on the composting of poultry manure with wheat straw",*Biosystems Engineering*, Volume 104, Issue 1, September 2009, Pages 125-134.

Projects

1. Identification of chemical forms heavy metals in natural water TK,(2007-2008).
2. Research form of heavy metals and their bioavailability in natural water" support by Federal ministry of educational, science and culture, (2009-2010).
3. Development of new photocatalytic materials on the basis of Titanium dioxide“, Federal Ministry of Education of Bosnia and Herzegovina, 2015.
4. Research on the possibility of applying agricultural waste for biosorption processes for removing heavy metals from natural and wastewater, support by Federal ministry of educational, science and culture, (2017-2018).

Chapters (International)

1. Amra Odobašić, **Indira Šestan** and Sabina Begić. Environmental Biosensors, Chapter "Biosenzors for determination of heavy metals in water", Published: 2019. DOI: 10.5772/intechopen. 84139.
2. Amra Odobašić, **Indira Šestan** and Amra Bratovčić. The extractionof heavy metals from vegetable samples. Elsavier Book: Ingredients Extraction by Physicochemical Methods in Food, 1st Edition, Editors: Alexandru Grumezescu Alina Maria Holban, Academic Press Inc (Verlag), 978-0-12-811521-3 (ISBN), 2017 <https://www.elsevier.com/books/ingredients-extraction-by-physicochemical-methods-in-food/grumezescu/978-0-12-811201-4>

Books

1. **Indira Šestan**, Amra Bratovčić. Theoretical basics with experiments from pedology and agrochemistry. Senat University of Tuzla, 27.06.2018.
2. Amra Odobašić, Sead Čatić, Amra Bratovčić, **Indira Šestan**, Husejin Keran „Experimental physical chemistry with theoretical basics“, ISBN 978-9958-31-176-5, 2014.
3. Amra Odobašić, Sead Čatić, Husejin Keran, **Indira Šestan**, Amra Bratovčić „Theoretical Problem and solutions in Physical Chemistry and Electrochemistry“, 2013, , ISBN 978-9958-31-137-8
4. Amra Odobašić, Sead Čatić, Amra Bratovčić, **Indira Šestan** „Experimental electrochemistry“, 2009, ISBN: 978-9958-13-023-6.