





PERSONAL INFORMATION

Ervin Karić



 Faculty of Technology (University of Tuzla), Univerzitetska 8, 75000 Tuzla, Bosnia and Herzegovina  
 +387 60 321/5468  
 + 387 35 320 865  
 [ervin.karic@untz.ba](mailto:ervin.karic@untz.ba), [ervin.karic90@gmail.com](mailto:ervin.karic90@gmail.com)

Sex: Male | Date of birth: 01/02/1990 | Nationality : BiH

POSITION

Senior Teaching Assistant, Chemical Engineering

WORK EXPERIENCE

21.12.2012 - Present

Teaching Assistant

University of Tuzla, Dr. Tihomila Markovića br. 1, 75000 Tuzla, web: [www.untz.ba](http://www.untz.ba)

Job description:

Teaching and Research in Chemical Engineering. Teaching Courses: Heat and Mass Transfer Operations, Chemical Engineering Kinetics, Reaction Engineering, Bioreactors, Bioreaction systems, Design of Chemical Processes, Process Integration, Chemical reactors, Analysis and Simulation of processes.

01.11.2013 – 21.09.2014

Chemical engineer

“Inproz” Institute d.o.o. Tuzla, Armije BiH 15, 75000 Tuzla, web: [www.inproz.ba](http://www.inproz.ba)

Job description:

- measurement and testing of flue gas emissions from stationary emission sources
- testing and analysis of physical, chemical and biological hazards
- microclimate testing in working and auxiliary facilities
- noise measurement and analysis
- writing application for an environmental permit
- writing action plans

EDUCATION AND TRAINING

2016 - Present

PhD

University of Tuzla / Faculty of Technology, Bosnia and Herzegovina

2012-2016

Master of chemical engineering

University of Tuzla / Faculty of Technology, Bosnia and Herzegovina

2008-2012

Bachelor-engineer of chemical technology

University of Tuzla / Faculty of Technology, Bosnia and Herzegovina

PERSONAL SKILLS

Mother tongue(s) Bosnian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
German	B1	B2	B1	B1	B1

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

Communication skills

- good communication skills gained during maintenance of auditory and laboratory exercises.
- experienced at giving presentation of research results at international conferences

Organisational / managerial skills

- team work (work on scientific research projects with colleagues)

Computer skills

- good knowledge of: Microsoft Office™, Outlook, Internet Explorer, MS Visio, Mathcad 14.0, Polymath Professional 6.0, SuperPro Designer, GAMS, MATLAB.

Driving licence

B

## ADDITIONAL INFORMATION

### Publications

1. Petric, I., Karić, E. (2015). Comparison of first-order and nth-order kinetics of co-composting poultry manure with wheat straw. *Technologica Acta* 8(2) 2015, 17-23. ISSN: 1840-0426; ISSN: 2232-7568.
2. Petric I., Karić, E. (2016). Development and validation of the mathematical model for synthesis of maleic anhydride from n-butane in a fixed bed reactor. *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 47(2) 2016, 49-58. ISSN: 0367-4444; ISSN: 2232-7266.
3. Karić E., Petric I, (2016). The influence of inlet process parameters on performance of industrial fixed bed reactor. *XI conference of chemists, technologists and environmentalists of Republic of Srpska, Bosnia and Herzegovina*, 156-165, ISBN 978-99938-54-67-8  
COBISS.RS-ID 6330904.
4. Karić E., Petric I., Mustafić N. (2017). Composting kinetics for mixture of poultry manure and wheat straw based on volatile solids content. *5<sup>th</sup> International congress "Engineering, environment and materials in processing industry"*. 167-179. ISBN: 978-99955-81-22-0.
5. Mustafić N., Petric I., Karić E. (2017). Application of validated mathematical model of composting process for study the effect of air flow rate on process performance. *5<sup>th</sup> International congress "Engineering, environment and materials in processing industry"*. 224-239. ISBN: 978-99955-81-22-0.
6. Mustafić, N., **Karić, E.** (2018). Minimization of Utilities Consumption in a Distillation Column with and without Heat Integration for Separation of a Binary System of Acetone-Methanol. *Kemija u industriji: Časopis kemičara i kemijskih inženjera Hrvatske*, 67(13 (special issue)), P11-P19.
7. **Karić, E.**, Mustafić, N. (2018). Analysis of Evaporation and Crystallization of Potassium Nitrate from Water Solution in Two-stage Evaporation System and Vacuum Crystallizer. *Kemija u industriji: Časopis kemičara i kemijskih inženjera Hrvatske*, 67(13 (special issue)), P1-P10.
8. Petric, I., **Karić, E.** (2019). Simulation of commercial fixed-bed reactor for maleic anhydride synthesis: application of different kinetic models and industrial process data. *Reaction Kinetics, Mechanisms and Catalysis*, 1-28.

9. **Karić E.**, Petric I., Mičić V., Determination and application of improved kinetic parameters for simulation of maleic anhydride synthesis in industrial fixed-bed reactor, 5<sup>th</sup> International congress "Engineering, environment and materials in processing industry". UDK 66.011 DOI: 10.7251/EEMEN1901218K

#### Projects

1. „Optimization of aerobic composting process of municipal solid waste”, financed by Ministry of Education, Science, Culture and Sport of Tuzla Canton (2013-2014)
2. „Optimization of kinetic and process parameters for composting process of organic fractions of municipal solid waste with different additives”, financed by Federal Ministry of Education and Science (2014-15)
3. „Optimization of maleic anhydride synthesis from n-butane in industrial fixed-bed reactor”, financed by Federal Ministry of Education and Science (2017-2018)

#### Participation in symposium, conferences and congress

1. Karić, E., Petric, I. (2013): Kinetics of organic matter degradation for co-composting poultry manure with wheat straw with application of correction factors, 3<sup>th</sup> SCIENTIFIC SYMPOSIUM WITH INTERNATIONAL PARTICIPATION "Environmental resources, sustainable development and food production", 14-15. November, 2013, Tuzla, Bosnia and Herzegovina (Oral presentation).

2. Petric, I., Karić, E., Development and validation of the mathematical model for synthesis of maleic anhydride from n-butane in a fixed bed reactor, "2<sup>nd</sup> International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina", October 21st-23rd, 2016, Sarajevo, Bosnia and Herzegovina (Oral presentation).

3. Karić, E., Petric I., The influence of inlet process parameters on performance of industrial fixed bed reactor, "International Scientific Conference „XI Conference of Chemists, Technologists and Environmentalists of Republic of Srpska“, 17-18. November, 2016, Teslić, Bosnia and Herzegovina (Poster presentation).

4. Karić, E., Petric, I., Mustafić, N., Composting kinetics for mixture of poultry manure and wheat straw based on volatile solids content, 5<sup>th</sup> International congress "Engineering, environment and materials in processing industry", 15-17. March, 2017, East Sarajevo, Bosnia and Herzegovina (Poster presentation).

5. Mustafić, N., Petric I., Karić E., Application of validated mathematical model of composting process for study the effect of air flow rate on process performance, 5<sup>th</sup> International congress "Engineering, environment and materials in processing industry", 15-17. March, 2017, East Sarajevo, Bosnia and Herzegovina (Poster presentation).

6. Karić, E., Petric, I., (2017): Process simulator of distillation column for separation of binary system. 5<sup>th</sup> Scientific symposium with international participation „Environmental resources, sustainable development and food production“ OPORPH November 16-17, 2017, Tuzla, Bosnia and Herzegovina (Poster presentation).

7. Karić, E., Petric, I., (2017): Mixed inductive-deductive strategy in modeling the composting kinetics. 5<sup>th</sup> Scientific symposium with international participation „Environmental resources, sustainable development and food production“ OPORPH November 16-17, 2017, Tuzla, Bosnia and Herzegovina (Poster presentation).

8. Karić, E., Mustafić N., The analysis of evaporation and crystallization of potassium nitrate from the water solution in two stage evaporation system and vacuum crystallizer, 12. Susret mladih kemijskih inženjera, 22-23. Februar, 2018, Zagreb, Republic of Croatia (Poster presentation).

9. Mustafić N., Karić E., Minimization of utility consumption in the distillation column with and without heat integration for separation a binary system of acetone-methanol, 12. Susret mladih kemijskih inženjera, 22-23. Februar, 2018, Zagreb, Republic of Croatia (Poster presentation).

10. Karić E., Mustafić N., Analysis and simulation of multiple-effect evaporation system in order to reduce hot utility consumption, Sixth international scientific conference june 5<sup>th</sup> – world environment day, 18-19 June, Bihać, Bosnia and Herzegovina (Poster presentation).

11. Karić E., Petric I., Mičić V., Determination and application of improved kinetic parameters for simulation of maleic anhydride synthesis in industrial fixed-bed reactor, 5<sup>th</sup> International congress "Engineering, environment and materials in processing industry", 11-13. March, 2019, East Sarajevo, Bosnia and Herzegovina (Poster presentation).

