



## LIČNE INFORMACIJE


Ervin Karić



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Spol: Muški | Datum rođenja: 01/02/1990. | Državljanstvo: BiH

## ZVANJE

Viši asistent, hemijsko inženjerstvo

## RADNO ISKUSTVO

21.12.2012. - sadašnjost

Viši asistent

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

Opis posla:

Edukacija i istraživanje u hemijskom inženjerstvu. Kursevi: Toplinske I difuzione operacije, Hemijsko inženjerska kinetika, Reakcijsko inženjerstvo, Bioreaktori, Bioreakcijski sistemi, Projektovanje tehnoloških procesa, Procesna Integracija, Hemijski reaktori, Analiza I simulacija procesa

01.11.2013-21.09. 2014.

Hemijski inženjer

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

- Mjerenje i ispitivanje emisije dimnih plinova iz stacionarnih izvora emisije
- Ispitivanje i analiza fizičkih, hemijskih i bioloških štetnosti
- Ispitivanje mikroklimatskih uslova u radnim i pomoćnim prostorijama
- Mjerenje i analiza buke
- Izrada Zahtjeva za dobijanje okolinske dozvole
- Izrada Planova aktivnosti

 OBRAZOVANJE I  
OSPOSOBLJAVANJE

2016. – sadašnjost.

 Doktorski studij  
Tehnološki fakultet Univerziteta u Tuzli, Bosna I Hercegovina

2012. – 2016.

 Magistar hemijskog inženjerstva  
Tehnološki fakultet Univerziteta u Tuzli, Bosna I Hercegovina

2008. – 2012.

 Bachelor-inženjer hemijske tehnologije  
Tehnološki fakultet Univerziteta u Tuzli, Bosna I Hercegovina

## LIČNE VJEŠTINE

Materinski jezik(ci) Bosanski

Ostali jezici	RAZUMIJEVANJE		GOVOR		PISANJE
	SLUŠANJE	ČITANJAE	Govorna interakcija	Govorna produkcija	
Engleski	B2	C1	B2	B2	B2
Njemački	B1	B2	B1	B1	B1

Stupnjevi: A1/2: Početnik - B1/2: Samostalni korisnik - C1/2 Iskusni korisnik  
Zajednički europski referentni okvir za jezike

### Komunikacijske vještine

- dobre komunikacijske vještine stečene tokom izvođenja teoretskih I eksperimentalnih vježbi.
- iskustvo prezentacije istraživačkih rezultata na konferencijama, kongresima I simpozijumim

### Organizacijske/rukovoditeljske vještine

- timski rad (rad na istraživačkim projektima sa kolegama)

### Računarske vještine

- dobro poznavanje: Microsoft Office™, Outlook, Internet Explorer, MS Visio, Mathcad 14.0, Polymath Professional 6.0, SuperPro Designer, GAMS, MATLAB

### Vozačka dozvola

B

## DODATNE INFORMACIJE

### Izdanja

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). Uticaj ulaznih procesnih parametara na izvedbu industrijskog cijevnog reaktora sa nepokretnim slojem katalizatora. *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

#### Projekti **Istraživački projekti:**

1. "Optimizacija procesa aerobnog kompostiranja komunalnog krutog otpada", finansiralo Ministarstvo obrazovanja, nauke, kulture i sporta Tuzlanskog kantona (2013.-2014.)
2. "Optimizacija kinetičkih i procesnih parametara za proces kompostiranja organske frakcije komunalnog krutog otpada sa različitim dodacima", finansiralo Federalno ministarstvo obrazovanja i nauke (2014.2015.)
3. "Optimizacija sinteze anhidrida maleinske kiseline iz n-butana u industrijskom cijevnom reaktoru sa nepokretnim slojem katalizatora", finansiralo Federalno ministarstvo obrazovanja i nauke (2017.-sadašnjost)

#### Učestvovanje na simpozijumima, konferencijama i kongresima

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 5th – 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).