

**Europass  
Životopis**

**Osobni podaci**

 Prezime/ Ime **Karalija Erna**

Adresa(e) Zmaja od Bosne 33-35; 71 000 Sarajevo, Bosna i Hercegovina

Telefonski broj(evi) Broj telefona:033 723 761

 Broj mobilnog  
telefona:

Broj(evi) faksa

 E-mail [erna.k@pmf.unsa.ba](mailto:erna.k@pmf.unsa.ba) [erna.karalija@gmail.com](mailto:erna.karalija@gmail.com)

Državljanstvo BiH

Datum rođenja 19.04.1984

Spol Ž

**Željeno zaposlenje/zanimanje** **Vanredni profesor**
**Radno iskustvo**

Datumi 06/12/2018–danas

 Zanimanje ili radno mjesto **Vanredni profesor na oblastima Funkcionalna biologija i Molekularna biologija**

 Glavni poslovi i odgovornosti Predavanja: Regulacija razvića biljaka; Molekularna biologija biljaka, Alelopatija i alelopatijski spojevi, Biljne interakcije i životne adaptacije, Metabolizam biljne ćelije, Mikropropagacija genetički modifikovanih biljaka  
Vježbe: Regulacija razvića biljaka, Opća fiziologija biljaka, Kultura ćelija i tkiva, Kultura biljnih ćelija i tkiva, Biohemija biljaka

Ime i adresa poslodavca Prirodno-matematički fakultet, Sarajevo, Bosna i Hercegovina

Vrsta djelatnosti ili sektor Odsjek za Biologiju

Datumi 01/09/2015–06/12/2018

 Zanimanje ili radno mjesto **Docent**

 Glavni poslovi i odgovornosti Predavanja: Regulacija razvića biljaka; Molekularna biologija biljaka, Alelopatija i alelopatijski spojevi, Biljne interakcije i životne adaptacije, Metabolizam biljne ćelije, Mikropropagacija genetički modifikovanih biljaka  
Vježbe: Regulacija razvića biljaka, Opća fiziologija biljaka, Kultura ćelija i tkiva, Kultura biljnih ćelija i tkiva, Biohemija biljaka

Ime i adresa poslodavca Prirodno-matematički fakultet, Sarajevo, Bosna i Hercegovina

Vrsta djelatnosti ili sektor	Odsjek za Biologiju
Datumi	01/09/2015–01/09/2018
Zanimanje ili radno mjesto	<b>Spoljni saradnik (Docent)</b>
Glavni poslovi i odgovornosti	
Ime i adresa poslodavca	Farmaceutski fakultet, Univerzitet u Sarajevu, Bosna i Hercegovina
Vrsta djelatnosti ili sektor	
Datumi	01.09. 2015 – 31.08. 2017
Zanimanje ili radno mjesto	<b>Spoljni saradnik (Docent)</b>
Glavni poslovi i odgovornosti	
Ime i adresa poslodavca	Šumarski fakultet, Univerzitet u Sarajevu
Vrsta djelatnosti ili sektor	
Datumi	01.01. 2012 – 31.08. 2015
Zanimanje ili radno mjesto	<b>Viši asistent</b>
Glavni poslovi i odgovornosti	Vježbe: Opća fiziologija biljaka, Biohemija biljaka, Kultura biljnih ćelija i tkiva, Regulacija razvića biljaka, Fiziologija ćelije
Ime i adresa poslodavca	Prirodno-matematički fakultet, Sarajevo (Bosnia & Herzegovina)
Vrsta djelatnosti ili sektor	Odsjek za Biologiju
Datumi	01.09. 2008 – 31.12. 2011
Zanimanje ili radno mjesto	<b>Asistent</b>
Glavni poslovi i odgovornosti	Vježbe: Opća fiziologija biljaka, Biohemija biljaka, Kultura biljnih ćelija i tkiva, Regulacija razvića biljaka, Fiziologija ćelije, Eksperimentalna biohemija, Enzimologija
Ime i adresa poslodavca	Prirodno-matematički fakultet, Sarajevo (Bosnia & Herzegovina)
Vrsta djelatnosti ili sektor	Odsjek za Biologiju
<b>Obrazovanje i osposobljavanje</b>	
Datum	16.03.2015.
Naziv dodijeljene kvalifikacije	<b>Doktor bioloških nauka</b>
Glavni predmeti / stečene profesionalne vještine	<i>Elicitacija sekundarnih metabolita vrste <i>Knautia sarajevensis</i> (G. Beck) Szabó u kulturi in vitro</i> <i>Izvod:</i> Stimulacija produkcije sekundarnih metabolita u kulturi izdanka upotrebom različitih tipova elicitora kao što su regulatori rasta, salicilna kiselina i ekstrakt kvasca. Analiza sastava i koncentracije sekundarnih metabolita te evaluacija bioaktivnih svojstava dobivenih ekstrakta. Evaluacija antioksidativnih i antimikrobnih svojstava ekstrakta. <i>Supervisor: Prof. dr. Adisa Parić</i>
Ime i vrsta organizacije pružatelja obrazovanja i osposobljavanja	Prirodno-matematički fakultet Univerziteta u Sarajevu, Odsjek za biologiju
Razina prema nacionalnoj ili međunarodnoj klasifikaciji	8. stepen
Datum	2011
Naziv dodijeljene kvalifikacije	Magistar bioloških nauka; Oblast biljne fiziologije
Glavni predmeti / stečene profesionalne vještine	

Ime i vrsta organizacije pružatelja obrazovanja i osposobljavanja	<i>Univerzitet u Sarajevu; Prirodno-matematički fakultet, Sarajevo</i>				
Datum	2007				
Naziv dodijeljene kvalifikacije	Diplomirani biolog				
Glavni predmeti / stečene profesionalne vještine					
Ime i vrsta organizacije pružatelja obrazovanja i osposobljavanja	<i>Univerzitet u Sarajevu; Prirodno-matematički fakultet, Sarajevo</i>				
Razina prema nacionalnoj ili međunarodnoj klasifikaciji	7. stepen				
Datum	17.07.2010.				
Naziv dodijeljene kvalifikacije	<b>Bachelor / bakalaureat inženjerske mikrobiologije</b>				
Glavni predmeti / stečene profesionalne vještine	Predmeti I ciklusa studija predviđeni Nastavnim planom i programom na smjeru Mikrobiologija; Izborni moduli: Savremene metode u mikrobiologiji, Genetički diverzitet, Genetika kancerogeneze, Subviralni patogeni, Biljni virusi, Molekularna citogenetika, Fitopatologija, Uvod u palinologiju				
Ime i vrsta organizacije pružatelja obrazovanja i osposobljavanja	Prirodno-matematički fakultet Univerziteta u Sarajevu, Odsjek za biologiju				
Razina prema nacionalnoj ili međunarodnoj klasifikaciji	6. stepen				
<b>Osobne vještine i kompetencije</b>					
Materinski jezik(ci)	<b>Bosanski jezik</b>				
Drugi jezik(ci)					
Samoprocjena	<b>Razumijevanje</b>		<b>Govor</b>		<b>Pisanje</b>
<i>Europska razina (*)</i>	Slušanje	Čitanje	Govorna interakcija	Govorna produkcija	
<b>Engleski Jezik</b>	C2	C2	C2	C2	C2
<b>Njemački jezik</b>	B2	B2	B2	B2	B2
	<i>(*) <a href="#">Zajednički europski referentni okvir za jezike</a></i>				
Društvene vještine i kompetencije	Rad u timu, vođenje većih i manjih timova.				
Organizacijske vještine i kompetencije	Projekt menadžment (H2020 projekti), Organizacije radionica za mlade, edukacijskih radionica, radionica za stakeholder-e, stakeholder engagement, organizacija konferencija				
Tehničke vještine i kompetencije					
Računalne vještine i kompetencije	MS Office, Statistički programi, ImageJ;				
Umjetničke vještine i kompetencije					

Druge vještine i kompetencije	
Vozačka dozvola	Da
<b>Bibliografija</b>	
	<b>Naučni radovi</b>
<b>Naučni radovi</b>	<ol style="list-style-type: none"> <li>1. <b>Karalija, E.</b>, Dahija, S., Parić, A., Zeljković, S. Č. (2020). Phytotoxic potential of selected essential oils against <i>Ailanthus altissima</i> (Mill.) Swingle, an invasive tree. <i>Sustainable Chemistry and Pharmacy</i>, 15, 100219. (q2)</li> <li>2. <b>Karalija, E.</b>, Zeljković, S. Č., Parić, A. (2019). Harvest time-related changes in biomass, phenolics and antioxidant potential in <i>Knautia sarajevensis</i> shoot cultures after elicitation with salicylic acid and yeast. <i>In Vitro Cellular &amp; Developmental Biology-Plant</i>, 1-7. (q2)</li> <li>3. Pustahija, F., Bašić, N., Subašić, M., Hukić, E., Starčević, M., Duraković, R., Sinanović, N., Knežević, J., <b>Karalija, E.</b>, Parić, A. (2018). Total phenolics, antioxidant and antimicrobial activities of dalmatian laburnum (<i>Petteria ramentacea</i> (Sieber) c. Presl) methanol extracts. <i>Works of the Faculty of Forestry, University of Sarajevo</i>, 1(2018): 1-19. <b>CABI</b></li> <li>4. <b>Karalija, E.</b>, Parić, A., Dahija, S., Bešta-Gajević, R., Čavar, Z. S. (2018). Phenolic compounds and bioactive properties of <i>Verbascum glabratum</i> subsp. <i>bosnense</i> (K. Malý) Murb., an endemic plant species. <i>Natural product research</i>, 18: 1-5. (q2)</li> <li>5. Bešta-Gajević, R., <b>Karalija, E.</b>, Jerković-Mujkić, A., Karadža, D., Smajlović-Skenderagić, L., &amp; Dahija, S. (2018). Antimicrobial and antioxidant activity of the extracts from <i>Origanum vulgare</i> L. growing wild in Bosnia and Herzegovina. <i>Genetics &amp; Applications</i>, 2(2), 62-66. <b>CABI</b></li> <li>6. Šabanović, M., Parić, A., Briga, M., <b>Karalija, E.</b> (2018). Effect of salicylic acid seed priming on resistance to high levels of cadmium in lettuce (<i>Lactuca sativa</i> L.). <i>Genetics &amp; Applications</i>, 2(2), 67-72. <b>CABI</b></li> <li>7. <b>Karalija, E.</b>, Selović, A. (2018). The effect of hydro and proline seed priming on growth, proline and sugar content, and antioxidant activity of maize under cadmium stress. <i>Environmental Science and Pollution Research</i>, 25(33), 33370-33380. (q2)</li> </ol>

8. Parić A, **Karalija E** (2018) The Effect of Salicylic Acid on Response to Water Deficit in Basil. *Genetics and Applications*, The official Publication of the Institute for Genetic Engineering and Biotechnology, University of Sarajevo, 2(1): 42-48.
9. **Karalija E**, Čavar Zeljković S, Tarkowski P, Muratović E, Parić A (2018): Media composition effects seed dormancy, apical dominance and phenolic profile of *Knautia sarajevensis* (Dipsacaceae), Bosnian endemic *Acta Botanica Croatica*, 77(1), 70-79. DOI: <https://doi.org/10.1515/botcro-2017-0011>; *Web of Science*
10. Klisura, T., Parić, A., Subašić, M., **Karalija, E.** (2017). AIR POLLUTION TOLERANCE INDEX OF *Plantago major* IN STEELWORKS AREA OF ZENICA, BOSNIA AND HERZEGOVINA. *Genetics & Applications*, 1(1), 59-64.
11. **Karalija E**, Čavar Zeljković S, Tarkowski P, Muratović E, Parić A (2017) The effect of cytokinins on growth, phenolics, antioxidant and antimicrobial potential in liquid agitated shoot cultures of *Knautia sarajevensis*, *Plant Cell, Tissue and Organ Culture (PCTOC)*; 131(2): 347–357 (DOI: 10.1007/s11240-017-1288-2); *Web of Science*
12. **Karalija E**, Parić A (2017) Effects of Salicylic Acid Foliar Application on Germination, Growth and Antioxidant Potential of Basil. *Biologica Nyssana*, 8(2): 145-150. (DOI: 10.5281/zenodo.1135966).
13. Đogić S, Džubur N, **Karalija E**, Parić A (2017) Biochemical responses of basil to aluminium and cadmium stresses. *Acta Agriculturae Serbica*, 12 (43): 57-65. *CAB Abstracts®*;
14. Parić A, **Karalija E**, Čakar J (2017) Growth, secondary metabolites production, antioxidative and antimicrobial activity of mint under the influence of plant growth regulators. *Acta Biologica Szegediensis*, 61(12): 189-195. *Elsevier BIOBASE*
15. Mahmutović I, Dahija S, Bešta-Gajević R, **Karalija E** (2017) Biological activity of *Juniperus communis* L. extracts. *Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo*, LXII(67/2): 536-544. *CAB Abstracts®*;
16. Karadža A, **Karalija E**, Vidic D, Parić A (2017) Quantitative analysis of secondary metabolites in *Hypericum perforatum*, originating from different localities in Bosnia and Herzegovina. *Works of the Faculty of Agriculture and Food Sciences, University of Sarajevo*, LXII(67/2): 545-556. *CAB Abstracts®*;
17. Čavar Zeljković S, **Karalija E**, Parić A, Muratović E, Tarkowski P (2017) Environmental factors do not affect the phenolic profile of *Hypericum perforatum* growing wild in Bosnia and Herzegovina. *Natural Product Communications*, 12(9): 1465 - 1468; *Web of Science*
18. Klisura T, Parić A, Subašić M, **Karalija E** (2017) Air pollution tolerance index of *Plantago major* in steelworks area of Zenica. *Genetics & Application; The official Publication of the Institute for Genetic Engineering and Biotechnology, University of Sarajevo*; 1: 59-64;

19. Topcagic A, Cavar Zeljkovic S, **Karalija E**, Galijasevic S, Sofic E (2017) Evaluation of phenolic profile and bioactivity of *Nigella sativa* L. seed extracts. Bosnian Journal of Basic Medical Sciences. DOI: <http://dx.doi.org/10.17305/bjbms.2017.2049>; *Web of Science*
20. **Karalija E**, Muratović E, Tarkowski P, Čavar Zeljković S (2017): Variation of phenolic composition of *Knautia arvensis* in correlation to geographic area and plant organ. *Natural Product Communications*; 12(4): 545 – 548; *Web of Science*
21. **Karalija E** (2017): Career development in Green Biotechnology in B&H: roadblocks and prospects. In: Badnjevic A (ed) Proceedings of the International Conference on Medical and Biological Engineering 2017; IFMBE Proceedings, 62: 384-387, Springer Singapore;
22. **Karalija E**, Neimarlija D, Čakar J, Paric A (2016): Elicitation of biomass and secondary metabolite production, antioxidative and antimicrobial potential of basil and oregano induced by BA and IBA application. *European Journal of Medicinal Plants*, 14(4): 1-11; INDEX COPERNICUS
23. Muratović E, **Karalija E**, Pustahija F, Parić A (2016): Dose dependent changes in morpho-physiological parameters of oregano under Co and Cu stress, *Asian Academic Research Journal of Multidisciplinary*, 3: 29-37 INDEX COPERNICUS
24. Parić A, **Karalija E**, Pustahija F, Šiljak-Yakovlev S, Muratović E (2015): Pigments and genome size variation in *Symphyanthra hofmannii* population, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 44: 71-78; *CAB Abstracts®*;
25. **Karalija E**, Kurtagić H, Parić A (2014): Kinetin induced changes in rutin content in *Knautia sarajevensis* (G. Beck) Szabó shoot cultures, *Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*, 43: 45-48; *CAB Abstracts®*;
26. **Karalija E**, Parić A, Muratović E (2013): Biochemical status of *in vitro* regenerated *Lilium bosniacum* and *Lilium cattaniae* plantlets, *Open Life Sciences(formerly: Central European Journal of Biology)*, 8 (9): 912-920; *Web of Science*
27. Parić A, Čakar J, **Karalija E** (2013): Effect of BAP on *in vitro* micropropagation of endemic species *Acinos orontius* (K. Malay) Šilić, *Proceedings 1<sup>st</sup> Symposium of Geneticists in Bosnia and Herzegovina*, 85-89;
28. Parić A, Čakar J, Muratović E, **Karalija E** (2011): Induction of bulblets on leaf and bulb explants of endangered *Lilium bosniacum* (G. Beck) G. Beck ex Fritsch, *Botanica Serbica*, 35(1): 31-35; *CAB Abstracts®*
29. Muratović E, **Karalija E**, Bećirović A, Jeleč R, Parić A (2011): Morphological and physiological response of *Phaseolus vulgaris* L. to different cobalt concentrations, *Proceedings 21<sup>st</sup> Scientific-Expert Conference of Agriculture and Food Industry*, 299-311; *CAB Abstracts®*
30. Parić A, Milanović E, Žerić I, **Karalija E** (2011): Influence of growth regulators (IBA and BAP) on production of secondary metabolites in shoot culture of *Thymus vulgaris* L., *Proceedings 21<sup>st</sup> Scientific-Expert Conference of Agriculture and Food Industry*, 351-362; *CAB Abstracts®*
31. **Karalija E**, Parić A (2011): The effect of BA and IBA on the secondary metabolite production by shoot culture of *Thymus vulgaris* L., *Biologica Nyssana*, 2: 29-35; ISSN: 2217-4606
32. Parić A, **Karalija E**, Muratović E (2011): Response of *Ocimum basilicum* L. to aluminum treatment, *Proceedings 22<sup>nd</sup> International Scientific-Expert Conference of Agriculture and Food Industry*, 140-143; *CAB Abstracts®*
33. **Karalija E**, Trbojević S, Parić A (2010): Somatic embryogenesis and *in vitro* plantlet regeneration of *Lilium martagon* L. var. *cattaniae* Vis., *Biologica Nyssana*, 1: 57-60; ISSN: 2217-4606
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**Bibliografija**

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**Konferencijska saopštenja (zadnjih 5 godina)**

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1. Topčagić A, Čavar Zeljković S, **Karalija E**, Galijašević S, Sofić E (2018): Phenolic content and biological activities of anise seed extracts. 7th Balkan Botanical Congress Book of Abstracts. Botanica Serbica Vol 42 (Supplement 1):135.
2. Matoruga A, Parić A, Čavar Zeljković S, **Karalija E** (2018): Chemical composition and allelopathic effects of *Vitex agnus-castus* L. essential oil on lettuce and radish seedling growth. 3rd International Conference on Plant Biology (22nd SPPS Meeting), 9-12, June, Belgrade, Serbia. Abstracts: 137.
3. Bozalo D, **Karalija E**, Parić A (2018): Allelopathic effects of essential oils of chosen representatives of *Thymus* L. genus on germination of *Ailanthus altissima* (Mill.) Swingle, an invasive species. 3rd International Conference on Plant Biology (22nd SPPS Meeting), 9-12, June, Belgrade, Serbia. Abstracts: 139.
4. Širić E, **Karalija E**, Parić A (2018): Antioxidant activity, total phenolic content and allelopathic effects of *Juniperus communis* essential oil. 3rd International Conference on Plant Biology (22nd SPPS Meeting), 9-12, June, Belgrade, Serbia. Abstracts: 142.
5. Mićijević S, Parić A, Čavar Zeljković, **Karalija E** (2018): Allelopathic effect of *Thymus serpyllum* L. and *Thymus vulgaris* L. essential oils on germination and seedlings growth in lettuce. 3rd International Conference on Plant Biology (22nd SPPS Meeting), 9-12, June, Belgrade, Serbia. Abstracts: 161.
6. Gluvić V, **Karalija E**, Parić A (2018): Antioxidant activity, phenolic content and allelopathic effects of laurel essential oil (*Laurus nobilis* L.). 3rd International Conference on Plant Biology (22nd SPPS Meeting), 9-12, June, Belgrade, Serbia. Abstracts: 167.
7. **Karalija E** (2017): Seed priming, a tool for plant priming? CA15223 1st Cost iPlanta Conference - Creating The Plant RNAi Research Network. 15. – 18. 02. Rome, Italy
8. **Karalija E** (2017): Career development in Green Biotechnology in B&H: roadblocks and prospects. International Conference on Medical and Biological Engineering CMBEBIH2017. 16-16. 03, Sarajevo, Bosnia and Herzegovina; Abstracts: 70.
9. Subašić M, Starčević M, Hadžidervišagić D, Parić A, **Karalija E**, Pustahija F (2017): Antioxidative and antimicrobial activity of methanol extracts of the Dalmatian laburnum (*Peteria ramentacea*). VIII International Scientific Agriculture Symposium (AgroSym), 05-08. 10. Jahorina; Abstracts: 1335.
10. Mahmutović I, Dahija S, Bešta-Gajević R, **Karalija E** (2017): Biological activity of *Juniperus communis* L. extracts. 28<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry, 27-19. 09. Sarajevo; Abstracts: 54.
11. Karadža A, **Karalija E**, Vidic D, Adisa P (2017): Quantitative analysis of secondary metabolites in *Hypericum perforatum*, originating from different localities in Bosnia and Herzegovina. 28<sup>th</sup> International Scientific-Expert Conference of Agriculture and Food Industry, 27-19. 09. Sarajevo; Abstracts: 54.
12. Dahija S, **Karalija E**, Parić A, Muratović E, Đug S (2016) Effects of heavy metal contaminated water on phenolics content in *Mentha aquatica*. 5<sup>th</sup> Croatian Botanical Symposium with international participation. Primošten, Croatia, Abstracts: 91.
13. Klisura T, Parić A, Tukulija A, **Karalija E** (2016) Air pollution tolerance index (APTI) of *Plantago major* L. in the ironwork area Zenica (Bosnia and Herzegovina). 5<sup>th</sup> Croatian Botanical Symposium with international participation. Primošten, Croatia, Abstracts: 97.
14. Kukuljac B, Tukulija A, Parić A, Muratović E, Pustahija F, **Karalija E** (2016) Influence of salicylic acid pre-treatment on germination, vigour and growth parameters of *Silene sendtneri* Boiss. 5<sup>th</sup> Croatian Botanical Symposium with international participation. Primošten, Croatia, Abstracts: 98.
15. Tukulija A, Kukuljac B, Parić A, Muratović E, Pustahija F, **Karalija E** (2016) Cumulative effect of salicylic acid on seed germination of *Silene sendtneri* Boiss. 5<sup>th</sup> Croatian Botanical Symposium with international participation. Primošten, Croatia, Abstracts: 101.
16. Džubur N, Đogić S, **Karalija E**, Parić A (2016) The Effect of Aluminium on Antioxidant Activity and Production of Secondary Metabolites in *Ocimum basilicum* L. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, *Book of Abstracts, Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina*. Sarajevo, B&H, Abstracts: 163

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|               | <p>17. <b>Karalija E</b>, Muratović E, Parić A, Tarkowski P, Čavar Zeljković S (2016) Phenolic Acid Composition of <i>Knautia arvensis</i> Dependent upon Plant Organ. 2nd International Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina, <i>Book of Abstracts, Special Issue of Bulletin of the Chemists and Technologists of Bosnia and Herzegovina</i>. Sarajevo, B&amp;H, Abstracts: 164.</p> <p>18. Dahija S, <b>Karalija E</b>, Parić A, Muratović E, Đug S (2015): Variation in flavonoids content of <i>Mentha aquatica</i> L. exposed to heavy metal contaminated water of Bosna River. 6<sup>th</sup> Balkan Botanical Congress, 14-18.09.2015 Rijeka, Croatia, Abstracts: 349.</p> <p>19. <b>Karalija E</b>, Bašić E, Dahija S, Parić A (2015): Variation of flavanols content in <i>Hypericum perforatum</i> in Bosnia and Herzegovina. 6<sup>th</sup> Balkan Botanical Congress, 14-18.09.2015 Rijeka, Croatia, Abstracts: 313.</p> <p>20. <b>Karalija E</b>, Parić A, Muratović E, Đug S (2015): Assessment of population distribution of <i>Knautia</i> species in Sarajevos' region using GIS and remote sensing applications. ICOEST2015, septembar. Abstracts 116.</p> |
| <b>Dodaci</b> | Navedite dokumente koje prilažete životopisu   |