Sanja Šešlija

Istraživač saradnik

Profesionalno iskustvo **Oblasti interesovanja** **Projekti** **Izabrane publikacije**

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Obrazovanje: **2010** Diplomirani inženjer tehnologije – hemijski inženjer, Tehnološko-Metalurški fakultet, Univerzitet u Beogradu
2011 Master inženjer tehnologije, Tehnološko-Metalurški fakultet, Univerzitet u Beogradu
2011-
Doktorske studije na Katedri za Organsku hemijsku tehnologiju, Tehnološko-Metalurški fakultet, Univerzitet u Beogradu

Zvanja: **2011-2014** Istraživač pripravnik
2014- Istraživač saradnik

Članstva u društvima: Srpsko hemijsko društvo

Profesionalno iskustvo: **2011-2014-** Inovacioni centar Tehnološko-metalurškog fakulteta, Univerzitet u Beogradu
2014- Institut za hemiju, tehnologiju i metalurgiju, Univerzitet u Beogradu
2013, 2014- Jednomesečni boravak na na Institutu za hemiju i tehnologiju polimera Pozzuoli, Italija u okviru bilateralnog projekta: Inovativni filmovi na bazi pektina za ambalazu prehrambenih proizvoda; dobijanje i karakterizacija; evidencioni br. 680-00-566/2013-09/4

Oblasti interesovanja: Prirodni polimeri i polimerni materijali iz bioobnovljivih izvora: sinteza, modifikacije i primena. Sinteza i karakterizacija filmova na bazi prirodnih polimera namenjenih za primenu u agrikulturi i za pakovanje hrane.

Znanje jezika: Engleski, francuski

Najznačajniji projekti: **2011 –**
Osnovna ostraživanja: Projekat br. 172062, „Sinteza i karakterizacija novih funkcionalnih polimera i polimernih nanokompozita“, finansiran od Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije
2012-2015 Bilateralni projekat Italija-Srbija, br. 680-00-566/2013-09/4, “Inovativni filmovi na bazi pektina za ambalažu prehrambenih proizvoda; dobijanje i karakterizacija”, finansiran od Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije i Ministero degli affari esteri, Italija
2016-
Bilateralni projekat Italija-Srbija,“ Razvoj i unapređenje filmova na bazi polisaharida za pakovanje namirnica”, finansiran od Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije i Ministero degli affari esteri, Italija

Izabrane publikacije: **Publikovani radovi:**

1. **S. Seslija**, Dj. Veljovic, M. Kalagasidis-Krusic, J. Stevanovic, S. Velickovic and I. Popovic, Cross-linking of highly methoxylated pectin with copper: The specific anion influence, New Journal of Chemistry, 40, (2016) 1618-1625 (IF: 3.086)

2. P. Spasojevic, M. Zrilic, V. Panic, D. Stamenkovic, **S. Seslija**, S. Velickovic, The Mechanical Properties of a Poly(methyl methacrylate) Denture Base Material Modified with Dimethyl Itaconate and Di-n-butyl Itaconate, International Journal of Polymer Science, 2015, Article ID 561012 (IF: 1.195)

3. P. Spasojevc, V. Panic, **S. Seslija**, V. Nikolic, I. Popovic, S. Velickovic, Poly(methyl methacrylate) denture base materials modified with ditetrahydrofurfurylitaconate: Significant applicative properties, Journal of the Serbian Chemical Society, 80 (2015) 1-18 http://www.shd.org.rs/JSCS/JSCS_OnLine_First/6230_AM.pdf (IF: 0.871)

4. V. Panić, **S. Šešlija**, A. Nešić, S. Veličković , Adsorption of azo dyes on polymer materials, Hemijska industrija, 67(2013) 881-900 (IF: 0.364)

Saopštenja na međunarodnim skupovima štampana u celini:

1. **S. Šešlija**, A. Nešić, R. Avolio, M. Errico, M. Malinconico, S. Veličković, Novel pectin biobased films for food packaging application, 51st Meeting of the Serbian Chemical Society, Nis, Serbia, 2014, Book of papers (CD) 67-70

Saopštenja na međunarodnim skupovima štampana u izvodu:

2. **S. Šešlija**, J. Stevanovic, T. Volkov-Husovic, S. Velickovic, ''Influence of anion type on the structure of pectin gels crosslinked with copper'', Tenth young researchers conference-Materials science and engineering, 2011, Belgrade, Book of Abstracts, p.11

3. **S. Šešlija**, J. Stevanović, Z. Stević, S. Veličković, Electrical behavior of pectin hydrogels, Proceeding, XIIIth International scientific-practical conference, Modern information and electronic technologies, 2012, Odessa, Ukraine, Book of Abstracts, p. 299

4. **S. Šešlija**, A. Nešić, S. Veličković, "Nanocomposite membranes based on pectin and zeolite A for application in direct methanol fuel cells'', First International Conference on Processing, characterization and application of nanostructured materials and nanotechnology, 2012, Belgrade, Book of Abstracts, p.120

5. **S.Šešlija**, S. Veličković, Complexes of pectin and poly(ethylene glycol), First conference of young chemists of Serbia, 2012, Beograd, Book of Abstracts, p.100

6. **S. Šešlija**, Jasmina Stevanović, Tatjana VolkovHusović, Sava Veličković, Surface modification of pectin spheres crosslinked in lead(IV) and copper(II) solutions, Eleventh young researchers conference-Materials science and engineering, 2012, Belgrade, Book of Abstracts, p.83

7. **S. Šešlija**, J. Stevanovic, S. Velickovic, ''Influence of the type and concentration of metals on the electrical conductivity of pectin hydrogels'', First Metallurgical & Materials Engineering Congress of South-East Europe (MME SEE), 2013, Belgrade, Book of Abstracts, p.446

8. M. Plavša, A. Nešić, **S. Šešlija**, D. Stojanović, S. Veličković, Synthesis and characterization of membranes based on chitosan modified by organoclay, 8th International Conference of the Chemical Societies of the South-East European Countries - ICOSECS 8, 2013, Belgrade, Serbia, Book of Abstracts, p.136

9. **S. Šešlija**, M. Plavša, S. Veličković, FTIR characterization of pectin modified with dicarboxylic acids, 8th International Conference of the Chemical Societies of the South-East European Countries - ICOSECS 8, 2013, Belgrade, Serbia, Book of Abstracts, p.156

10. **S. Šešlija**, G. Zebić, S. Veličković, Pectin as biosorbent for the removal of copper ions from aqueous salt solutions, Twelfth young researchers conference-Materials science and engineering, 2013, Belgrade, Serbia, Book of Abstracts, p.39

11. **S. Šešlija**, A. Nešić, R. Avolio, M. Errico, M. Malinconico, S. Veličković, Pectin and poly(ethylene glycol) based films: mechanical and structural properties, Twelfth Young Researchers Conference – Materials Science and Engineering, 2013, Belgrade, Serbia, Book of abstracts, p. 7

12. **S. Šešlija**, A. Nešić, R. Avolio, M. Errico, M. Malinconico, S. Veličković, M. Kalgasidis Krušić, I. Popović, Synthesis and characterizaton of modified pectin films intended for food packaging application, Thirteenth young researchers conference-Materials science and engineering, 2014, Belgrade, Serbia, Book of Abstracts, p.30

13. V. Nikolić, A. Popović, **S. Šešlija**, P. Spasojević, V. Panić, Degradation of PS-g-starch copolymers in waste water, 51st Meeting of the Serbian Chemical Society, Nis, Serbia, 2014, Book of abstracts, p. 78

13. **S. Šešlija**, A. Nešić, R. Avolio, M. Errico, M. Malinconico, M. Kalgasidis Krušić, I. Popović, Synthesis and characterizaton of films based on pectin and glycidyl methacrylate obtained in photopolymerization reaction, 52st Meeting of the Serbian Chemical Society, Novi Sad, Serbia, 2015, Book of abstracts, p. 60

14. **S.Seslija**, A. Nesic, M. Kalgasidis Krusic, G. Santagata, M. Malinconico, Innovative pectin based films for food packaging: Preparation and characterization, XXI IUPAC CHEMRAWN CONFERENCE, Rome, Italy, Book of abstracts, p.42

15. **S. Seslija**, V. Panic, P. Spasojevic, I. Popovic, Modification of pectin in the reaction of conventional esterification using chlorides of renewable carboxylic diacids, ECO-BIO, 2016, Rotterdam, Nederlands, Book of abstracts, P1.17

16. **S. Seslija**, V. Panic, P. Spasojevic, I. Popovic, Novel Approach in Improvement of Native Pectin Properties: Modification Using Chlorides of Renewable Carboxylic Diacids, Polychar, 2016, Poznan, Poland, Book of abstracts, P3.32st Meeting of the Serbian Chemical Society, Novi Sad, Serbia, 2015, Book of abstracts, p. 60