NASTAVNO-NAUČNOM VEĆU
TEHNOLOŠKO-METALURŠKOG FAKULTETA
UNIVERZITETA U BEOGRADU

Odlukom br. 35/234 Nastavno-naučnog veća Tehnološko-metalurškog fakulteta Univerziteta u Beogradu, od 03. 09. 2020. godine imenovani smo za članove Komisije za kvantitativno i kvalitativno vrednovanje naučnoistraživačkog rada dr Dušice B. Stojanović, višeg naučnog saradnika i utvrđivanje ispunjenosti uslova za sticanje zvanja **NAUČNI SAVETNIK.** Posle pregleda i analize dostavljenog materijala i uvida u celokupni rad dr Dušice B. Stojanović, Nastavno-naučnom veću Tehnološko-metalurškog fakulteta Univerziteta u Beogradu podnosimo sledeći:

I Z V E Š T A J

1. BIOGRAFSKI PODACI

Dr Dušica (Branislav) Stojanović je rodjena u Boru 09.05.1964. godine. Osnovnu i srednju školu (gimnazija "Luka Spasojević") završila je u Ljigu. Školske 1983/84. godine upisala je osnovne studije na Tehnološko-metalurškom fakultetu, Univerziteta u Beogradu, gde je diplomirala 1991. godine na Katedri za konstrukcione materijale, odbranivši diplomski rad na temu *"Matematičko modelovanje procesa dobijanja staklenih cevi konsolidacijom prahova"*.

U periodu od 1992. do 1996. godine je zasnovala radni odnos na Tehnološko-metalurškom fakultetu, u zvanju saradnika-pripravnika preko Zavoda za tržište rada, zatim od 1996. do 1999. i u privatnoj kompaniji 3A GLASS gde se bavila proizvodnjom i distribucijom staklenih kapilara za hromatografsko određivanje tačke topljenja u prehrambrenoj industriji i Na-heparizovanih kapilara za laboratorijske analize krvi u medicinskim ustanovama. Pored toga, bavila se procesiranjem i distribucijom staklenih i polimernih optičkih vlakana i stečena znanja u ovoj oblasti primenila je u magistarskoj tezi pod naslovom *"Analiza stabilnosti procesa formiranja polimernih optičkih vlakana"* koju je odbranila 1999. godine na Katedri za konstrukcione materijale, Tehnološko-metalurškog fakulteta.

Doktorsku disertaciju pod nazivom *"Dinamičko-mehanička i termička svojstva termoplastičnih kompozita ojačanih nanočesticama silicijum-dioksida"* prijavila je 2007. godine na Tehnološko-metalurškom fakultetu u Beogradu, na odseku Inženjerstvo materijala i odbranila 2009. godine sa prosečnom ocenom 10. Zvanje naučni saradnik je stekla 10.10. 2010. godine, a zvanje viši naučni saradnik 24. 02. 2016. godine.

Kandidat aktivno učestvuje na nacionalnim naučnoistraživačkim projektima koje finansira Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije, na međunarodnim

projektima u okviru različitih programa, kao i na projektima koje finansira Fond za nauku Republike Srbije. U okviru redovnih aktivnosti rukovodi internim projektima koji kao glavni cilj imaju razvoj i karakterizaciju novih proizvoda. U celokupnoj istraživačkoj karijeri do sada, učestvovala je u 9 međunarodnih projekata, 11 nacionalnih projekata i rukovodila je na tri projekta sa međunarodnim i nacionalnim učešćem.

Samostalno i u saradnji sa drugim autorima, u okviru svog naučnog opusa publikovala je 219 naučnih publikacija među kojima su radovi u istaknutim međunarodnim i domaćim naučnim časopisima, monografije međunarodnog i nacionalnog značaja, saopštenja na domaćim i međunarodnim skupovima i veliki broj tehničkih rešenja. Recenzent je u istaknutim međunarodnim i domaćim časopisima, sa zahvalnicama editora. Učestvuje u formiranju mladog naučnog kadra kroz aktivnosti vezane za mentorstva, učešće u komisijama na osnovnim (diplomskim), master i doktorskim akademskim studijama. Uspešno sarađuje sa kolegama sa više naučnoistraživačkih i obrazovnih institucija iz zemlje i inostranstva, kao i sa privrednim preduzećima.

U poslednjih pet godina uspostavila je saradnju sa profesorom (Emeritus) Reshef Tenne, (Department of Materials and Interfaces Weizmann Institute, Rehovot, Israel, Member of the Israel Academy of Sciences and Academia Europaea), prof. Alla Zak, (Head of the Laboratory for Synthesis and Investigation of Nanomaterials, Faculty of Sciences, Holon Institute of Technology, Israel). Takođe je uspostavila saradnju sa profesorom Milošem Kojićem (Senior Member at Department of Nanomedicine, The Methodist Hospital Research Institute, Houston, Full Member of the Serbian Academy of Sciences and Arts, Adjunct Professor at Department of Computer Science University of Houston, USA), i objavila nekoliko zajedničkih radova.

Od školske 1999/2000. godine, angažovana je u izvođenju vežbi iz sledećih predmeta: Materijali (zimski semestar), Ispitivanje materijala i Kompozitni materijali (letnji semestar), a od školske 2014/2015. učestvuje u realizaciji nastave i izvodjenju vežbi iz predmeta Vlakna visokih performansi (na studijskom programu-Inženjerstvo materijala, profil Kompozitni materijali) na Tehnološko-metalurškom fakultetu, tokom letnjeg semestra. Tokom zimskih/letnjih semestara 2006-2009. godine bila je angažovana na izvodjenju vežbi iz predmeta Poznavanje materijala i Tehnologija materijala, smer Industrijski dizajn, na Fakultetu primenjenih umetnosti, Univerziteta u Beogradu.

Tokom letnjeg semestra šk. 2016/17. godine učestvovala je u izvođenju vežbi iz predmeta Ispitivanje fizičko-mehaničkih svojstava materijala na Tehnološko- metalurškom fakultetu.

Odlukom br. 35/25 Nastavno-naučnog veća od 28.05.2020. godine, za potrebe akreditacije studijskih programa Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu, dr Dušica B. Stojanović je angažovana u nastavi na predmetima Biokompozitni materijali i Fizičko-mehanička ispitivanja materijala u letnjem semestru i za izvođenje vežbi iz predmeta Biokompozitni materijali i Karakterisanje kompozitnih materijala u zimskom semestru školske 2021/22. godine.

2. NAUČNOISTRAŽIVAČKI RAD

Dr Dušica B. Stojanović aktivno učestvuje u realizaciji naučnoistraživačkih projekata finansiranih od strane resornog Ministarstva, Fonda za nauku, Republike Srbije, projekata finansiranih od strane EU, i rukovodi projektima sa primenjenim rezultatima u saradnji sa privredom.

Nakon izbora u zvanje viši naučni saradnik učestvuje u naučnoistraživačkom projektu koji je finansiran od strane Fonda za nauku, Republike Srbije-*Novel Immunotherapeutic Approaches for Autoimmune Diseases based on Myeloid Derived Suppressor Cells induced by Nanomaterials (**PROMIS-Nano-MDSC-Thera**)*, Science Fund of the Republic of Serbia, 2020-. Takođe rukovodi nacionalnim razvojno-tehnološkim projektom - *Optimization adhesive properties of the material for fixation SMF28 + Corning fiber optic cable*, Green Power Turbine Systems doo, 2018- i međunarodnim razvojno-tehnološkim projektom -*Thermo-mechanical and structural characterization of the POLYSORB suture*, Medtronic-Covidien AG, 104432693 Victor von Bruns-Strasse 19, 8212 Neuhausen am Rheinfall, Switzerland, 21.09.2016. Trenutno je angažovana na ***HORIZON 2020**-Twinning to excel materials engineering for medical devices, EXCELLMATER* (2020-2023), COST Action "*High performance Carbon-based composites with Smart properties for Advanced Sensing Applications*" (EsSENce) **CA19118**, 2020-), Cost Action **CA18120** "*Reliable roadmap for certification of bonded primary structures*" CERTBOND, 2020- i međunarodnom projektu **NOx REMEDATION** Omya International AG CH-4665 Switzerland) (od 2020-). U ovom periodu nastavlja rukovođenje potprojektom TR34011 (2015-2020) i kao rezultat ove faze realizovana su dva tehnička rešenje kategorije M82 i osvojila je četiri nagrade na međunarodnom i nacionalnom nivou.

Treba istaći učešće kandidata pre izbora u zvanje naučni saradnik u projektima: TR 0086: *Projektovanje tehnologije i opreme za izradu izolacionih ploča od otpadnog mulja pri prečišćavanju voda u drvnopreradjivačkoj industriji Kopaonik,* Kuršumlija, MNTR (2001-2003) i projekat: Ispitivanje zatezne čvrstoće belih limova, US Steel, Serbia, (2002-2004) a poslednjih pet godina u projektima finansiranim od strane nadležnog Ministarstva-Projekat 6744: *Projektovanje tehnologije i opreme za izradu hibridnih izolacionih kompozitnih proizvoda na bazi sekundarnih (recikliranih) staklenih vlakana* MNZŽS (2005-2007), Projekat IP 106-8011B: *Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih polimernih prevlaka na optička vlakna* MNZŽS (2006-2007) i angažman na projektu 19047: *Razvoj tehnologija i poluindustrujskih postrojenja za dobijanje staklenih, polimernih i hibridnih kompozitnih svetlovodnih kablova* MNZŽS (2008-2010). U toku učešća na ovim projektima koautor je 15 tehničkih i razvojnih rešenja iz kategorije M83 i tri tehnička rešenja iz kategorije M84 i osvojila je dve nagrade na nacionalnom nivou. Učešće u medjunarodnim naučnim projektima ostvareno je kroz projekte EUREKA Project: E!3524-POLY-COMP, *Polymer matrix and mineral filler compatibility for the production of industrial articles with improved properties,* MNZŽS (2006-2008), EUREKA Project E!4040-MEC-REC, *Assessment Of Mechanical Recycling Technologies For Plastics,* MNZŽS (2007-2010).

U periodu pre izbora u zvanje viši naučni saradnik kandidatkinja se posebno istakla u oblasti istraživanja nanokompozitnih materijala što je bila tema istraživanja i doktorske disertacije kandidata. Izrada doktorske disertacije podržana je učešćem na projektima (EUREKA 3524, EUREKA 4040 i MNZŽS 19047). U ovom periodu učestvovala je u realizaciji FP7-REGPOT-2009-1 No 245916: *NANOTECHFTM: Reinforcing of Nanotechnology and functional Materials Centre,* (2009-2012), i EUREKA E!5851!-*Korišćenje otpadnog perja za razvoj novih kompozitnih materijala i energetskih sirovina*, MPN Republike Srbije: 401-00-38/1/2012-05 (2010-2013). Takodje je bila angažovana na projektima-*Upravljanje polimernim otpadom na teritoriji grada Beograda*, GRAD BEOGRAD, GRADSKA UPRAVA GRADA BEOGRADA, Sekretarijat za zaštitu životne sredine Grada Beograda - I, II i III faza (2011-2014), koji su realizovali Sekretarijat za zaštitu životne sredine grada Beograda i Tehnološko-metalurški fakultet, Univerziteta u Beogradu. U toku angažmana u ovom periodu bila je rukovodilac potprojekta tehnološkog razvoja, Projekat MPNRS *Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima,* Evidencioni broj TR 34011 (2010-2015). U ovom periodu trajanja projekta realizovana su 3 tehnička i razvojna rešenja iz kategorije M82, 8 tehničkih rešenja iz kategorije M83, jedno tehničko rešenje iz kategorije M85 i sa ostalim koautorima osvojila je dve nagrade na međunarodnom i nacionalnom nivou.

Dr Dušica B. Stojanović je osim magistarske teze i doktorske disertacije, sa ostalim koautorima publikovala 219 bibliografskih jedinica sa ukupnim M=626,34. Pri tome 60 radova je objavljeno u međunarodnim časopisima, od toga je pre izbora u zvanje viši naučni saradnik objavila 130 naučnih publikacija: autor jednog poglavlja u knjizi medjunarodnog značaja kategorije M14, 24 naučna rada u vrhunskim međunarodnim časopisima M21, 52 saopštenja na medjunarodnom nivou, 23 saopštenja na nacionalnom nivou i 32 tehnička rešenja različitih kategorija. Posle izbora u zvanje viši naučni saradnik bila je autor 89 bibliografskih jedinica, pri tome je autor jednog poglavlja u knjizi međunarodnog značaja kategorije M13 i jedne monografske studije M43, 37 radova u međunarodnim časopisima M20: vrsta rezultata M21a–10, M21–14 radova, M22–7 radova, M23–6 radova), M24–2 rada i 42 saopštenja prikazanih na domaćim i međunarodnim skupovima (oznaka grupe M30: vrsta rezultata M32–2 rada, M33–7 radova, M34–25 radova, M35–1, oznaka grupe M50: M51–1 rad, M52–4 rada, M60: vrsta rezultata M63–5 radova, oznaka grupe M64–1 rad).

U toku svog rada uspešno je savladala savremene spektroskopske tehnike (UV/VIS/NIR, IR) i služi se optičkim i elektronskim mikroskopskim metodama i metodama za karakterizaciju mehaničkih i termičkih svojstava materijala: High Speed Impact Tester Software, Shimadzu, makro i mikro indentacija, nanoindentacija i tribomehanička karakterizacija (TriboScan, Hysitron TI 950), DSC, TGA, DTA i DMA analiza (TA Instrument Universal Analysis). Poseduje aktivno znanje engleskog jezika a služi se i piše ruskim jezikom.

Prema podacima servisa Scopus od 13. septembra 2020. godine, Hiršov indeks objavljenih radova dr Dušice B. Stojanović iznosi **h=15**, odnosno h=11 (bez samocitata i citata svih koautora). Pri tome, radovi su ukupno citirani 620 puta, odnosno 430 puta (bez samocitata i citata svih koautora).

Na osnovu dosadašnjeg naučnoistraživačkog rada dr Dušice B. Stojanović mogu se izdvojiti tri uža naučna pravca u oblasti Inženjerstva materijala koja obuhvataju:

(I) Procesiranje, funkcionalizaciju i karakterizaciju polimernih kompozitnih materijala,

(II) Hibridne nanokompozitne materijale za antibalističku zaštitu i

(III) Procesiranje funkcionalnih nanovlakana širokog spektra primene.

3. NAUČNA KOMPETENTNOST

Prvi deo Bibliografije dr Dušice B. Stojanović obuhvata spisak objavljenih naučnih publikacija posle izbora u zvanje viši naučni saradnik, tj. od donošenja pozitivne odluke Nastavno-naučnog veća TMF-a o predlogu za sticanje naučnog zvanja viši naučni saradnik (09.07.2015. godine) a drugi deo obuhvata spisak objavljenih naučnih publikacija u periodu do izbora u naučno zvanje viši naučni saradnik.

(I) BIBLIOGRAFIJA POSLE IZBORA U ZVANJE VIŠI NAUČNI SARADNIK SA KOJIMA KONKURIŠE ZA ZVANJE NAUČNI SAVETNIK:

3.1. Monografije, monografske studije, tematski zbornici, leksikografske i kartografske publikacije međunarodnog značaja

3.1.1. Monografska studija/poglavlje u knjizi M11 ili rad u tematskom zborniku vodećeg međunarodnog značaja (M13) 1x5=5

*3.1.1.1. Simic, D.M.; **Stojanovic, D.B.;** Ristovic, N.; Zrilic, M.; Burzic, Z.; Marjanovic, M.; Uskokovic, P.S.; Aleksic, R., (2020). *Ballistic Composites Reinforced with Inorganic Nanotubes of Tungsten Disulfide.* In: Fangueiro R., Rana S. (eds) Advanced Materials for Defense, 4, 35–43. DOI: 10.1007/978-3-030-34123-7_4 (Prilog)

Heterocitata: 0

https://link.springer.com/content/pdf/10.1007%2F978-3-030-34123-7.pdf

3.2. Radovi objavljeni u časopisima međunarodnog značaja (M20)

(a) 3.2.1. Radovi u međunarodnim časopisima izuzetnih vrednosti (M21a):

8x10+1x7,143 +1x6,250 = 93,39

3.2.1.1. Mijailović, D. M., Radmilović V. V. Lačnjevac U. Č., **Stojanović D. B**., Jović V. D., Radmilović V. R., Uskoković P. S., *Core–shell carbon fiber@Co1.5Mn1.5O4 mesoporous spinel electrode for high performance symmetrical supercapacitors* (2020) Applied Surface Science, 534, 147678, IF 2019 = **6.182** (Materials Science, Coatings & Films 1/21) ISSN: 0169-4332 DOI:10.1016/j.apsusc.2020.147678

Heterocitata: 0

https://www.sciencedirect.com/science/article/pii/S0169433220324351

3.2.1.2. **Stojanović, D.B**., Brajović, L., Obradović, V., Mijailović, D., Dramlić, D., Kojović, A., Uskoković, P.S. *Hybrid acrylic nanocomposites with excellent transparency and hardness/toughness balance* (2020) Progress in Organic Coatings, 139, art. no. 105437, IF 2019=**4.469** (Materials Science, Coatings & Films 2/21) ISSN:0300-9440 DOI: 10.1016/j.porgcoat.2019.105437

https://www.sciencedirect.com/science/article/pii/S030094401931121X

Heterocitata: 1

1. Kausar, A. Emerging trends in poly(methyl methacrylate) containing carbonaceous reinforcements—Carbon nanotube, carbon black, and carbon fiber, (2020) Journal of Plastic Film and Sheeting, in press DOI: 10.1177/8756087920917177

*3.2.1.3. Simić, D. M., **Stojanović, D. B**., Dimić, M., Mišković, K., Marjanović, M., Burzić, Z., Uskoković, P. S., Zak, A., Tenne, R. *Impact resistant hybrid composites reinforced with inorganic nanoparticles and nanotubes of WS_2*, Composites Part B: Engineering, 176 (2019), 82019107222 IF 2019=**7.635** (Materials Science, Composites 1/26) ISSN:1359-8368 doi: 10.1016/j.compositesb.2019.107222

https://www.sciencedirect.com/science/article/abs/pii/S1359836819314866

Heterocitata: 1

1. Salam, A., Xie, G., Guo, D., Xu, W. Fabrication and tribological behavior of self-lubricating composite impregnated with synthesized inorganic hollow fullerene-like MoS2 (2020) Composites Part B: Engineering, 200, art. no. 108284, DOI: 10.1016/j.compositesb.2020.108284

3.2.1.4. Marković, D., Milovanović, S., De Clerck, K., Zizovic, I., **Stojanović, D**., Radetić, M. *Development of material with strong antimicrobial activity by high pressure CO2 impregnation of polyamide nanofibers with thymol* (2018) Journal of CO2 Utilization, 26, 19-27. IF = **5.189** (Engineering, Chemical 11/138) ISSN:2212-9820, doi: 10.1016/j.jcou.2018.04.019

https://www.sciencedirect.com/science/article/abs/pii/S2212982018300258

Heterocitata: 3

1. Najafloo, R., Behyari, M., Imani, R., Nour, S. A mini-review of Thymol incorporated materials: Applications in antibacterial wound dressing (2020) Journal of Drug Delivery Science and Technology, 60, art. no. 101904, . DOI: 10.1016/j.jddst.2020.101904

2. Avci, H., Akkulak, E., Gergeroglu, H., Ghorbanpoor, H., Uysal, O., Eker Sariboyaci, A., Demir, B., Soykan, M.N., Pat, S., Mohammadigharehbagh, R., Özel, C., Cabuk, A., Doğan Güzel, F. Flexible poly(styrene-ethylene-butadiene-styrene) hybrid nanofibers for bioengineering and water filtration applications (2020) Journal of Applied Polymer Science, 137 (26), art. no. 49184, DOI: 10.1002/app.49184

3. Mosquera, J.E., Goñi, M.L., Martini, R.E., Gañán, N.A. Supercritical carbon dioxide assisted impregnation of eugenol into polyamide fibers for application as a dental floss (2019) Journal of CO2 Utilization, 32, pp. 259-268 DOI: 10.1016/j.jcou.2019.04.016

3.2.1.5. Simić, D. M., **Stojanović, D. B**., Brzić, S. J., Totovski, L., Uskoković, P. S., Aleksić, R. R. *Aramid hybrid composite laminates reinforced with inorganic fullerene-like tungsten disulfide nanoparticles*, Composites: Part B: Engineering 123 (2017) 10-18. IF 2017= **4.920** (Materials Science, Composites 1/25) ISSN:1359-8368, DOI:10.1016/j.compositesb.2017.05.002

https://www.sciencedirect.com/science/article/abs/pii/S1359836817309319

Heterocitata:6

1. Salam, A., Xie, G., Guo, D., Xu, W. Fabrication and tribological behavior of self-lubricating composite impregnated with synthesized inorganic hollow fullerene-like MoS2 (2020) Composites Part B: Engineering, 200, art. no. 108284 DOI: 10.1016/j.compositesb.2020.108284

2. Barzoki, P.K., Rezadoust, A.M., Latifi, M., Saghafi, H., Minak, G. Effect of nanofiber diameter and arrangement on fracture toughness of out of autoclave glass/phenolic composites - Experimental and numerical study (2019) Thin-Walled Structures, 143, art. no. 106251 DOI: 10.1016/j.tws.2019.106251

3. Serra, M., Arenal, R., Tenne, R. An overview of the recent advances in inorganic nanotubes (2019) Nanoscale, 11 (17), pp. 8073-8090. DOI: 10.1039/c9nr01880h

4. Barzoki, P.K., Latifi, M., Rezadoust, A.M. The outstanding effect of nanomat geometry on the interlaminar fracture toughness behavior out of autoclave made glass/phenolic composites under mode-I loading (2019) Engineering Fracture Mechanics, 205, pp. 108-119. DOI: 10.1016/j.engfracmech.2018.10.019

5. Sharma, S., Pathak, A.K., Singh, V.N., Teotia, S., Dhakate, S.R., Singh, B.P. Excellent mechanical properties of long length multiwalled carbon nanotube bridged Kevlar fabric (2018) Carbon, 137, pp. 104-117. DOI: 10.1016/j.carbon.2018.05.017

6. Mittal, G., Rhee, K.Y., Mišković-Stanković, V., Hui, D. Reinforcements in multi-scale polymer composites: Processing, properties, and applications (2018) Composites Part B: Engineering, 138, pp. 122-139. DOI: 10.1016/j.compositesb.2017.11.028

3.2.1.6. Grkovic, M., **Stojanovic, D.B**., Pavlovic, V.B., Rajilic-Stojanovic, M., Bjelovic, M., Uskokovic, P.S. *Improvement of mechanical properties and antibacterial activity of crosslinked electrospun chitosan/poly (ethylene oxide) nanofibers*, Composites Part B: Engineering, 121(2017) 58-67. IF 2017=**4.920** (Materials Science, Composites 1/25) ISSN:1359-8368 DOI: 10.1016/j.compositesb.2017.03.024

https://www.sciencedirect.com/science/article/abs/pii/S1359836817309733

Heterocitata:21

1. Ko, E., Kim, H. Preparation of chitosan aerogel crosslinked in chemical and ionical ways by non-acid condition for wound dressing (2020) International Journal of Biological Macromolecules, 164, pp. 2177-2185. DOI: 10.1016/j.ijbiomac.2020.08.008

2. Rezaeinia, H., Ghorani, B., Emadzadeh, B., Mohebbi, M. Prolonged-release of menthol through a superhydrophilic multilayered structure of balangu (Lallemantia royleana)-gelatin nanofibers (2020) Materials Science and Engineering C, 115, art. no. 111115 DOI: 10.1016/j.msec.2020.111115

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3.3. Zbornici međunarodnih naučnih skupova (M30)

3.3.1. Predavanje po pozivu na međunarodnom skupu štampano u izvodu (M32) 2x1,5=3

3.3.1.1. **Stojanovic D**., Marinkovic A., Janackovic Dj., Aleksic R., Uskokovic P. *Synthesis, characterization and applications of functionalized nanoparticles and nanotubes*, Workshop Functional Polymer Materials, Internacionalizacija – steber razvoja Univerze v Mariboru, pp. 5 - 5, University of Maribor, Slovenia, 12. - 16. Jan, 2015. ISBN: 978-961-248-472-9

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3.3.2.5. Mijailović D., Stević Z., Panić V., Vukčević M., **Stojanović D.**, Uskoković P. *The Capacitive Performances of Porous Carbon Electrodes Investigated by Novel System for Electrochemical Testing of Supercapacitors*, The Fourth International Conference on Renewable Electrical Power Sources, October 17-18, 2016, Belgrade, Proceedings, ISBN: 978-86-81505-80-9, p. 467-472.

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3.3.3.6. Radisavljević A. N., **Stojanović D. B.**, Perišić S. D., Radojević V. J., Rajilić-Stojanović M.D., Uskoković P.S., *Cefazolin-loaded polycaprolactone fibers produced via blend and co-axial electrospinning*, Twentieth Annual Conference YUCOMAT 2018, Herceg Novi, Montenegro, September 3-7, The Book of Abstracts, p. 135. ISBN 978-86-919111-3-3

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3.6. Zbornici nacionalnih naučnih skupova (M60)

3.6.1. Saopštenja na nacionalnim skupovima štampana u celini (M63) 5x0,5=2,5

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3.7. Tehnička i razvojna rešenja (M80)

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3.1. Monografije, monografske studije, tematski zbornici, leksikografske i kartografske

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3.6.1.3. Aleksić, R., **Stojanović**, **D.,** Uskoković, P., Živković, I. Kojović, A., Obradović, V., Radojević, V., Zrilić, M. *Funkcionalno gradijentni nanokompozitni hibridni materijali povećane otpornosti na udar,* Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik Ultratex, Šabac, 2011.

3.6.2. Novo laboratorijsko postrojenje, novo eksperimentalno postrojenje, novi tehnološki postupak M83 (tehnička rešenja verifikovana od strane Matičnog odbora za materijale i hemijske tehnologije po staroj kategorizaciji)

3.6.2.1. Aleksić, R., Tomić, N., Jančić-Hajneman, R., Radojević, V., **Stojanović**, **D.,** Kojović, A., Uskoković, P., Živković, I., Stajić-Trošić, J., Perišić, S. *Alat za izradu kompozitnog preprega stakleno vlakno-polimer ekstruzijom*, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik PPT Namenska, Trstenik, 2014.

3.6.2.2. Aleksić, R., Tomić, N., Jančić-Hajneman, R., Radojević, V., **Stojanović, D.,** Petrović, M., Uskoković, P., Živković, I., Perišić, S. *Razvoj tehnologije izrade kompozitnih štapova na bazi otpadnih polimera pultruzijom*, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik PPT Namenska, Trstenik, 2014.

3.6.2.3. Aleksić, R., **Stojanović, D.,** Uskoković, P., Obradović, V., Kojović, A., Radojević, V., Živković, I. *Uredjaj za dobijanje nanokompozitnih funkcionalnih vlakana*, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik Ultratex, Šabac, 2011.

3.6.2.4. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., **Stojanović, D.,** Stajić- Trošić, J., Živković, I., Radović, I. *Mašina za izvlačenje mikro luminiscentnih vlakana iz rastopa,* Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik PPT Namenska, Trstenik, 2011.

3.6.2.5. Aleksić, R., Radojević, V., **Stojanović, D.,** Uskoković, P., Stajić-Trošić, J., Živković, I., Trifunović, D. *Alat za formiranje prevlake na luminiscentnim kompozitnim vlaknima sa polimernim slojem*, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik PPT Namenska, Trstenik, 2011.

3.6.2.6. Aleksić, R., Uskoković, P., Radojević, V., Stajić-Trošić, J., **Stojanović, D.,** Grujić, A., Trifunović, D., Živković, I. *Monolitna dizna za koekstruziju modifikovanih polimernih optičkih vlakana*, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik PPT Namenska, Trstenik, 2011.

3.6.2.7**.** Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Razvoj tehnologije izrade kompozitnih optičkih vlakana pultruzijom*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2009).

3. 6.2.8. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Tehnologija izrade svetlovodnih vlakana u obliku nekoherentnih snopova polimernih optičkih vlakana*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2009).

3.6.2.9. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Računarski sistem za upravljanje procesom izvlačenja optičkih staklenih vlakana*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.10**.** Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Razvoj tehnologije izvlačenja*

bandažiranih snopova 80 optičkih staklenih vlakana, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.11. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Mašina za izvlačenje snopova optičkih vlakana*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.12**.** Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Mašina za izvlačenje staklenih optičkih predformi*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.13**.** Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., M. Zrilić, **Stojanović, D.,** P. Stajčić, D. Trifunović, Lj. Brajović. *Računarski sistem za upravljanje procesom izvlačenja optičkih staklenih vlakana*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.14. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Poluindustrijsko postrojenje za pultruziju kompozitnih svetlovodnih kablova*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.15. Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Kojović, A., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Brajović, Lj. *Projektovanje i izrada linije za ekstruziju polimernih optičkih vlakana*, Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik (2008).

3.6.2.16**.** Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Gradijentni termoplastični kompozitni materijali*, Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija (2006).

3.6.2.17. Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Dobijanje i ispitivanje mehaničkikih svojstava kompozita kratka staklena vlakna-PEVG*, Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija (2005).

3.6.2.18. Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Dobijanje i ispitivanje mehaničkikih svojstava kompozitnih ploča stakleno vlakno-vodeno staklo*, Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija (2005).

3.6.2.19. Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Dobijanje i ispitivanje mehaničkikih svojstava kompozitnih materijala fenol-formaldehidna smola- kratka staklena vlakna*, Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija (2005).

3.6.2.20**.** Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Dobijanja i ispitivanje kompozitnih materijala gips-reciklirana staklena vlakna*, Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija, (2005).

3.6.2.21. Aleksic, R., Radojevic, V., Trifunovic, D., **Stojanović, D.** *Dobijanje i ispitivanje mehaničkikih svojstava cilindričnih kompozita vodeno-staklo-staklena vlakna,* Projekat MNZŽS, Evidencioni broj 6744, Korisnik Agencija za reciklažu, Republika Srbija (2005).

3.6.3. Bitno poboljšan postojeći proizvod ili tehnologija M84

3.6.3.1. Aleksić, R., Tomić, N., Jančić-Hajneman, R., Radojević, V., **Stojanović**, **D.,** Kojović, A., Uskoković, P., Živković, I., Dimitrijević. M. *Nanomodifikovani premazi optičkih vlakana za primene u uslovima visokih visokih temepratura i velikih mehaničkih naprezanja,* Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik EDePro, Beograd, 2014.

3.6.3.2.Aleksić, R., Mitraković, D., Radojević, V., Uskoković, P., Stajić-Trošić, J., Zrilić, M., **Stojanović, D.,** Stajčić, P., Trifunović, D., Kojović, A. *Projektovanje linije i alata za koekstruziju polimernih optičkih vlakana prečnika od 1 do 3 mm*/ Projekat MNTR, Evidencioni broj 19047, Korisnik PPT Namenska Trstenik, 2010.

3.6.3.3. Aleksić, R., Škundrić, P., Vojković, N., Radojević, V., Živković, I., Kostić, M., **Stojanović, D.** *Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih, polimernih prevlaka na optička vlakna* (Ev. Broj IP 106-8011B)-Kalem specijalne geometrije sa namotanim modifikovanim optičkim vlaknima dužine do 25 km za primenu u balističkim projektilima, Korisnik EDePro Beograd (2007).

3.6.3.4. Aleksić, R., Škundrić, P., Vojković, N., Radojević, V., Živković, I., Kostić, M., **Stojanović, D.** *Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih, polimernih prevlaka na optička vlakna* (Ev. Broj IP 106-8011B)- Poboljšana tehnologija za kontinualno nanošenje vezivnih prevlaka i termomehaničkih ojačanja na optička vlakna, Korisnik EDePro Beograd (2007).

3.6.3.5. Aleksić, R., Škundrić, P., Vojković, N., Radojević, V., Živković, I., Kostić, M., **Stojanović, D.** *Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih, polimernih prevlaka na optička vlakna* (Ev. Broj IP 106-8011B)- Optički kabl poboljšanih funkcionalnih svojstava za vodjenje balističkih projektila, Korisnik EDePro Beograd (2007).

3.6.4. Prototip, nova metoda, softver, standardizovan ili atestiran instrument, nova genska proba, mikroorganizmi M85

3.6.4.1. Aleksić, R., Živković, I., Jančić- Hajnemann, R., Mitraković, D., **Stojanović**, **D.,** Uskoković, P., Radojević, V., Dimitrijević, M. *Metoda analize morfologije oštećenja balističkih polimernih kompozitnih materijala,* Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011, Korisnik Ultratex, Šabac, 2011.

3.7. MAGISTARSKE I DOKTORSKE TEZE M70

3.7.1. Odbranjena doktorska disertacija M71

3.7.1.1. **Dušica B. Stojanović,** "*Dinamičko-mehanička i termička svojstva termoplastičnih kompozita ojačanih nanočesticama silicijum-dioksida«* TMF, Beograd, 2009.

3.7.2. Odbranjen magistarski rad M72

3.7.2.1. **Dušica B. Stojanović,** *»Analiza stabilnosti procesa formiranja polimernih optičkih vlakana«* TMF, Beograd, 1999.

4. RAD U OKVIRU AKADEMSKE DRUŠTVENE ZAJEDNICE

4.1. Učešće u radu stručnih tela i organizacionih jedinica Fakulteta i/ili Univerziteta

Posle izbora u prethodno zvanje:

4.1.1 Sekretar Katedre za Konstrukcione materijale posle izbora u zvanje viši naučni saradnik do danas

4.1.2. Član Komisije za popis Katedre za Konstrukcione materijale posle izbora u zvanje viši naučni saradnik do danas

4.1.3. Odbor za akreditaciju naučno-istraživačkih organizacija je na osnovu zakona o naučno-istraživačkoj delatnosti 25.11.2013 godine, doneo odluku o akreditaciji centra izuzetnih vrednosti - CENTRA ZA NANOTEHNOLOGIJE I FUNKCIONALNE MATERIJALE u okviru Tehnološko-metalurskog fakulteta, u kojem je dr Dušica B. Stojanović angažovana od samog početka rada, zajedno sa više eminentnih stručnjaka iz različitih oblasti.

Pre izbora u prethodno zvanje:

4.1.4. Član Komisije za upis na TMF (2002-2004).

5. NAUČNA SARADNJA I SARADNJA SA PRIVREDOM

Od 2001. godine učestvuje na nacionalnim naučnoistraživačkim projektima koje finansira Ministarstvo prosvete, nauke i tehnološkog razvoja Republike Srbije na međunarodnim projektima u okviru različitih programa kao i na projektima koje finansira Fond za nauku Republike Srbije. U okviru redovnih aktivnosti rukovodi nacionalnim i međunarodnim razvojno-tehnološkim projektima.

Posle izbora u prethodno zvanje:

5.1. Rukovođenje potprojektima finansiranim od strane nadležnog Ministarstva

5.1.1. Rukovodilac potprojekta: Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim mehaničkim svojstvima, Evidencioni broj TR34011 (2015-2020), Faza 11:Razvoj procesa elektropredenja kompozitnih nanovlakana sa definisanim svojstvima iz rastvora, Aktivnost 188:Dobijanje i karakterizacija nanovlakana sa antimikrobnim dejstvom i kontrolisanim otpuštanjem lekova, Faza 32:Razvoj procesa i alata za konsolidaciju nanomodifikovanih fleksibilnih balističkih višeslojnih laminata i tkanina Aktivnost 385:Razvoj procesa dobijanja hibridnih balističkih nanokompozitnih materijala na bazi modifikovanih

volfram disulfid nanočestica i karbonskih nanocevi, Razvoj metode dobijanja balističkih nanokompozitnih materijala sa interlaminarnim ojačanjem u vidu nanovlakana (Prilog)

5.2. Rukovođenje nacionalnim razvojno-tehnološkim projektima

5.2.1. Optimization adhesive properties of the material for fixation SMF28 + Corning fiber optic cable, Green Power Turbine Systems doo, contract No:2225/1, 07.11.2018. (Prilog)

5.3. Rukovođenje međunarodnim razvojno-tehnološkim projektima

5.3.1. Thermo-mechanical and structural characterization of the POLYSORB suture, Medtronic-Covidien AG, 104432693 Victor von Bruns-Strasse 19, 8212 Neuhausen am Rheinfall, Switzerland, contract No:2041/1, 21.09.2016. (Prilog)

5.4. Učešće u projektima međunarodne saradnje finansiranim od strane EU

5.4.1. **HORIZON 2020**-Twinning to excel materials engineering for medical devices, EXCELLMATER Grant agreement ID: 952033 (2020-2023) (Prilog)

5.4.2. COST Action "High performance Carbon-based composites with Smart properties for Advanced Sensing Applications" (EsSENce) **CA19118**, Brussels, 2020- https://www.cost.eu/actions/CA19118/#tabs|Name:parties (Prilog)

5.4.3. Cost Action **CA18120** "Reliable roadmap for certification of bonded primary structures" CERTBOND, 2020- (https://www.cost.eu/actions/CA18120/#tabs|Name:overview), (Prilog)

5.5. Učešće u naučnim istraživačkim projektima finansiranim od strane Fonda za nauku, Republike Srbije

5.5.1. Novel Immunotherapeutic Approaches for Autoimmune Diseases based on Myeloid Derived Suppressor Cells induced by Nanomaterials **(PROMIS-Nano-MDSC-Thera),** Science Fund of the Republic of Serbia, 2020-, GRANT_NUMBER: 6062673 (Prilog)

5.6. Ućešće u međunarodnim razvojno-tehnološkim projektima

5.6.1. Project: **NOx REMEDATION** (Omya International AG CH-4665 Switzerland) (od 2020- Phase I-Modification of $CaCO_3$ and $CaCO_3$ pin-coated cellulose paper under supercritical carbon dioxide–ethanol mixture for enhanced NO_2 capture). (Prilog)

Pre izbora u prethodno zvanje:

5.7. Rukovođenje projektima finansiranim od strane nadležnog Ministarstva

5.7.1. Rukovođenje potprojektom: Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim mehaničkim svojstvima, Evidencioni broj TR34011, (2010-2015), Faza 32: Razvoj procesa i alata za konsolidaciju nanomodifikovanih fleksibilnih balističkih višeslojnih laminata i tkanina, Aktivnost 325: Optimizacija procesa dobijanja hibridnih nanokompozitnih ploča s poboljšanim termo-mehaničkim svojstvima

5.8. Učešće u projektima međunarodne saradnje finansiranim od strane EU

5.8.1. FP7-REGPOT-2009-1 No 245916: NANOTECHFTM: Reinforcing of Nanotechnology and Functional Materials Centre, (2009-2012).

5.8.2. EUREKA Project: E!5851! Korišćenje otpadnog perja za razvoj novih kompozitnih materijala i energetskih sirovina, MPN Republike Srbije: 401-00-38/1/2012-05 (2010-2013).

5.8.3. EUREKA Project: E!4040–MEC-REC, Assessment Of Mechanical Recycling Technologies For Plastics, MNZŽS (2007-2010).

5.8.4. EUREKA Project: E!3524-POLY-COMP, Polymer matrix and mineral filler compatibility for the production of industrial articles with improved properties, MNZŽS (2006-2008).

5.9. Učešće u projektima finansiranim od strane nadležnog Ministarstva

5.9.1. Projekat: TR 34011 MPNRS, Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj 34011 (2010-2015).

5.9.2. Projekat 19047: Razvoj tehnologija i poluindustrujskih postrojenja za dobijanje staklenih, polimernih i hibridnih kompozitnih svetlovodnih kablova MNZŽS (2008-2010).

5.9.3. Projekat IP 106-8011B: Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih polimernih prevlaka na optička vlakna MNZŽS (2006-2007).

5.9.4. Projekat 6744: Projektovanje tehnologije i opreme za izradu hibridnih izolacionih kompozitnih proizvoda na bazi sekundarnih (recikliranih) staklenih vlakana, MNZŽS (2005-2007).

5.9.5. Projekat OI 1431: Molekularno dizajniranje monolitnih i kompozitnih materijala, MNTR (2001-2004).

5.9.6. Projekat TR 0086: Projektovanje tehnologije i opreme za izradu izolacionih ploča od otpadnog mulja pri prečišćavanju voda u drvnopreradjivačkoj industriji Kopaonik, Kuršumlija, MNTR (2001-2003).

5.10. Učešće u nacionalnim razvojno-tehnološkim projektima

5.10.1. Projekat: Upravljanje polimernim otpadom na teritoriji grada Beograda, GRAD BEOGRAD, GRADSKA UPRAVA GRADA BEOGRADA, Sekretarijat za zaštitu životne sredine Grada Beograda (2011-2014).

5.10.2. Projekat: Ispitivanje zatezne čvrstoće belih limova, US Steel, Serbia, (2002-2004).

6. UREĐIVANJE PUBLIKACIJA I RECENZIJE

6.1. Recenzije bilateralnih projekata

Grant: B-C-N based ultra-hard nanostructured composites", Vinca Institute of Nuclear Sciences, Bilateral project (05.04.2019.). (Prilog)

6.2. Recenzije radova u časopisima kategorije M20

Nakon izbora u prethodno zvanje recenzovala je radove Američkog hemijskog društva (ACS) koji pripadaju kategoriji časopisa izuzetnih vrednosti i dobila zahvalnice za izuzetan doprinos kvalitetu časopisa Composites Part B kroz recenzije i publikacije:

M21a: ACS NANO (nn-2017-02943q) IF= **14.588**, ACS Applied Materials & Interfaces (am-2017-18261d) IF= **8.758,** ACS Sustainable Chemistry & Engineering (sc-2019-022566) IF= **7.632**, ACS Applied Nano Materials (an-2018-003906) (potvrda o recenziji u prilogu) Composites Part B JCOMB_2017_341, JCOMB_2017_1776, JCOMB_2018_1861, JCOMB_2018_4228) IF= **7.635** (sa zahvalnicama za izuzetan doprinos u prilogu)

M21: Journal of Industrial Textiles (ID JIT-20-0272, IF=2.010) Polymer (POLYMER-20-564R) IF=4.231, Carbohydrate Polymers (CARBPOL-D-17-03056) IF=**7.182**, Materials Letters (MLBLUE-D-19-04552) IF= 3.204, Tribology International (IF=4.27) (TRIBINT-D-16-00437) (sa zahvalnicama u prilogu)

M22: Journal of Applied Polymer Science IF= 2.520 (app.20180126) (sa zahvalnicama u prilogu)

M23: Journal of the Serbian Chemical Society IF= 1.097 (JSCS PM-5120, JSCS- PM-5753, JSCS-PM-6193) (Prilog) ***Pre izbora u prethodno zvanje:*** Journal of Reinforced Plastics and Composites M22 IF 2013= 1.188, Polymers for Advanced Technologies M21 IF 2011= 2.007, Progress in Organic Coatings M21 IF 2013= 2.302, Journal of the Serbian Chemical Society IF 2013= 0.889, Physica Scripta M22 IF 2011= 1.204

7. NAGRADE I PRIZNANJA

7.1. Medjunarodne i nacionalne nagrade za naučnu i inovacionu delatnost

Kandidat je osvojio **10** nagrada na nacionalnom i međunarodnom nivou u svom ustraživačkom radu, pre i posle izbora u zvanje viši naučni saradnik.

Nakon izbora u zvanje viši naučni saradnik:

Nagrada na konkursu u Republici

7.1.1. Syntesis and supercapacitive performances electrospun carbon nanofibers decorated with spinel Co1.5Mn1.5O4, Young Researchers Conference 2019, 26.03.2019, Belgrade) (nagrada za najbolji naučni rad)

7.1.2. Electrospun Hybrids of Carbon Nanofibers with mixed metal oxide nanoparticles as high performance battery-type supercapacitors, Seventeenth Young Researchers' Conference Materials Sciences and Engineering 2018, December 5-7, SASA, Belgrade, The Book of Abstracts p. 60, (nagrada za najbolji naučni rad i prezentaciju)

Nagrada na međunarodnom konkursu

7.1.3. . High-performance supercapacitors based on core-shell structured carbon fibers@spinel oxide composites, Twenty-first Annual Conference "YUCOMAT 2019", September 2-6, 2019, Herceg Novi, Montenegro (nagrada za najbolju postersku prezentaciju).

7.1.4. Electrospun carbon nanofibers decorated with mixed Co and Mn oxide nanoparticles as high-performance hybrid electrodes for supercapacitors, ELEN Electrospinning for Energy 2018, 13-15 June 2018, Montpellier, France. The Book of Abstracts, p. 38. (nagrada za najbolju postersku prezentaciju)

Pre izbora u zvanje:

7.1.5. Radmilović, V.V., **Stojanović, D.,** Uskoković, P.S., Aleksić, R., V.R. Radmilović. *Structure and properties of polyvinyl butyral based nanocomposites*, Fifteenth Annual Conference YUCOMAT 2013, Herceg Novi, Montenegro, September 2-6, 2013, The Book of Abstracts, p.114 (nagrada za najbolju postersku prezentaciju)

7.2. Nagrade i priznanja za inovacije na nacionalnom nivou

7.2.1. Fabrication of composite materials as unidirectional thermoplastic prepregs based on recycled PET reinforced with glass fibers, Special prize at the Serbian best National Technical Innovation (NTI) contest 2014, Tim: EKOARMATURA

7.2.2. Aleksić, R., **Stojanović, D.,** Živković, I., Kojović, A., Uskoković, P., Radojević, V., Janaćković, Dj., Zrilić, M., Marinković, A., Mitraković, D., Jančić Heinemann, R., Trifunović, D., Kokeza, G., Obradović, V. *Funkcionalno gradijentni nanokompozitni hibridni materijali povećane otpornosti na udar*, 2 mesto na takmičenju za najbolju tehnološku inovaciju u Srbiji 2011. godine, INOVATIVNE IDEJE, NTI 2011, Tim NANOFGM.

7.2.3. Aleksic, R., Obradović, Z., Radojevic, V., Obradović, M., Uskoković, P. **Stojanović, D.** *Nova generacija kompozitnih materijala na bazi recikliranih sirovina,* Srebrna medalja sa likom Nikole Tesle, Savez pronalazača i autora tehničkih unapređenja, Beograd, 2008.

7.2.4. Aleksić, R., Uskoković, P., Trifunović, D., Radojević, V., Stajčić, P., **Stojanović, D.,** Jančić Heinemann, R., Živković, I., Kokeza, G., Popović, I., Stajić Trošić, J., Mitraković, D., Kojović, A. *Snopovi optičkih vlakana i hibridni svetlovodi za optoelektronske uredjaje i solarne sisteme,* Snopovi optičkih vlakana i hibridni svetlovodi za optoelektronske uređaje i solarne sisteme, 3 mesto na takmičenju za najbolju tehnološku inovaciju u Srbiji 2007. godine, NTI 2007, Tim SVETLOVODI.

7.2.5. R. Aleksić, P. Uskoković, **D. Stojanović**, M. Stević, M. Stanković, Kompozitni element za izradu antena, Izložba Pronalazaštvo/93. (Specijalna nagrada za pronalazaštvo-Medalja za pronalazaštvo "Nikola Tesla" Savez pronalazača i autora tehničkih unapređenja, Beograd, 1993.

7. 3. Učešće na nacionalnoj izložbi

X Festival nauke, Nanosvet za početnike, Tehnološko-metalurški fakultet, Inženjerstvo materijala, Univerzitet u Beogradu, Beogradski Sajam, 15-18.12.2016. https://issuu.com/festivalnauke/docs/fn_x_bilten_draft_final_issuu (p.13)

8. ANALIZA PUBLIKOVANIH RADOVA

Naučni rezultati dr Dušice B. Stojanović mogu se svrstati u nekoliko naučnih pravaca u okviru oblasti Inženjerstva materijala: (**I**) Procesiranje, funkcionalizacija i karakterizacija polimernih kompozitnih materijala, (**II**) Hibridni nanokompozitni materijali za antibalističku zaštitu i (**III**) Procesiranje i karakterizacija funkcionalnih nanovlakana.

U poslednjih pet godina treba istaći radove u kojima je kandidat nastavio istraživanja vezana za temu doktorske disertacije (akrilatni nanokompozitni materijali-radovi označeni kao **M21a-3.2.1.7**., **M21a-3.2.1.10**., **M21-3.2.1.13**., i **M21-3.2.1.24**.)

Doprinos rezultata iz doktorske disertacije može se posmatrati sa stanovišta specifične modifikacije površina nanočestica kao i dobijanja nanokompozita sa znatno poboljšanim termičkim, dinamičko-mehaničkim i nanomehaničkim svojstvima u poredjenju sa do sada objavljenim rezultatima. Prednost razvijene metode je što ovi procesi eliminišu veoma skupe procedure ispiranja i sušenja (filtraciju, ekstrakciju, centrifugiranje, otparavanje rastvarača i td.) kao kod konvencionalne metode i kao rezultat redukuju reakciono vreme procesa na 2 h u odnosu na klasičnu metodu gde proces modifikacije nanočestica može trajati do nekoliko dana. Vredno je spomenuti da metoda koja je razvijena dovodi do značajnog skraćivanja i pojeftinjenja procesa kao i da uvodi metodu koja je povoljna sa stanovišta zaštite životne sredine (CO_2 - zeleni solvent). Nastavak istraživanja u oblasti natkritične modifikacije vezan je za impregnaciju timola i piretrina na čvrste nosače natkritičnim CO_2 (radovi označeni kao **M21a-3.2.1.4., M21a-3.2.1.9., M21-3.2.1.15., M21-3.2.1-18**. Ukazano je da se, u vremenu dramatičnog porasta rezistentnosti bakterija na antibiotike, antimikrobno dejstvo prirodnih supstanci poput timola (*Thymus vulgaris*) i ekstrakta piretrina (*Chrysanthemum cinerariaefolium*) može poboljšati metodom natkritičnog CO_2 i uspešno primeniti u prehrambenoj, farmaceutskoj ili kozmetičkoj industriji. Ova grupa radova objavljena je u časopisima kategorije M21a i ima najveću citiranost na osnovu baze Scopus. Jedan od radova dr Dušice B. Stojanović, **M21a-3.2.1.2.,** iz teme doktorske disertacije je vezan za procesiranje akrilatnih materijala izuzetne transparentnosti, poboljšane tvrdoće i žilavosti primenom kompozitnih nanovlakana na bazi antimikrobnog TiO_2. Stefano Linari, vlasnik firme Linari inženjering koji je izumeo sistem koji je primenjen za dobijanje nanovlakana pohvalio je ovaj rad. (Prilog)

U poslednjih pet godina kandidat je razvio novu oblast procesiranja funkcionalnih nanovlakana i njihove primene u biomaterijalima. Emulzionim elektropredenjem se mogu dobiti nanovlaknasti kompoziti sa aktivnim supstancama koje su okružene ili prekrivene surfaktantima i impregnirane u biokompatibilne i biorazgradljive polimere. Takav tip mreže nanovlaknastih kompozita poseduje kombinovane karakteristike kontrolisanog i prolongiranog otpuštanja aktivne supstance. Karakteristike mreže nanovlaknastih kompozita, kao što su morfologija, struktura, veličina pora, difuzija, kinetika otpuštanja, degradacija i t.d. mogu se podesiti izborom odgovarajućih biopolimera, aktivnih supstanci, rastvarača, surfaktanta i uslovima elektropredenja (radovi označeni kao **M21a-3.2.1.6., M21-3.2.1.16., M21-3.2.1.21.,** i **M22-3.2.25.** Posebno treba istaći radove vezane za sisteme sa produženim dejstvom aktivnih supstanci gde je karakteristično otpuštanje aktivne supstance na kontrolisan način. Sistemi za kontrolisanu dostavu mogu održati terapeutski efekat tokom dužeg vremenskog perioda i samim tim redukovati neželjene sporedne efekte. Sistem za kontrolisanu dostavu lekova ima za cilj da se smanjena doza leka isporuči precizno, efikasno, u tačno određeno vreme. Kao primer, model lek rastvorljiv u vodi, Rodamin B je inkapsuliran u troslojne nosače od nanovlakana i postignuto je mirovanje leka u toku prvih 20 dana. Nakon tog perioda, iz srednjeg sloja biodegradabilnog polimera poli (D,L-laktid-ko-glikolid) (PLGA) sa različitim koncentracijama i različitim odnosom mlečne i glikolne kiseline,

lek se otpušta u manjim dozama u toku 6 meseci. Spoljni slojevi od polikaprolaktona (PCL) nanovlakana imaju za cilj da obezbede period zarastanja rane nakon hirurškog tretmana, otpuštanjem prirodnih ili sintetskih antibaktericidnih supstanci. U saglasnosti sa eksperimentalnim rezultatima kontrolisanog otpuštanja, u ovim radovima u saradnji sa prof. Milošem Kojićem i BIOIRC-Kragujevac, napravljena su dva numerička modela, 3D FE model i 3D ″smeared″ model višeslojnog implanta, koji preslikavaju strukturu vlaknastog nosača leka i omogućavaju dizajniranje nosača i kontrolu procesa otpuštanja za razne kombinacije polimerni nosač-lek-medijum u organizmu (radovi označeni kao **M21-3.2.1.12., M21-3.2.1.14., M52-3.5.2.1., M34-3.3.3.15.,** i **M64-3.6.2.1.**)

Dr Dušica B. stojanović je uradila sistematska istraživanja na laminarnim kompozitnim materijalima para-aramidno vlakno/poli (vinil butiral). Ovaj termoplastični višeslojni kompozit je pokazao 5,5 puta veću sposobnost apsorpcije energije od do sada tradicionalno korišćenih materijala sa istim ojačanjem. U okviru radova koji se bave ovom problematikom prezentovano je procesiranje nanokompozita sa poboljšanim termičkim i mehaničkim svojstvima matrice dodatkom različitih vrsta nanočestica. Modifikacijom površine čestica kuplujućim agensima ostvarena je bolja veza matrica-nanočestice-vlakno i postignuta su poboljšana svojstva u odnosu na klasične kompozitne materijale. U radovima **M21a-3.2.1.8. i M21-3.2.1.11.,** prezentirani su novi oblici hibridnih multiaksijalnih nanokompozita sa poboljšanim mehaničkim svojstvima i otpornošću na ubod i udar kontrolisanom energijom. Uvodjenje novih hibridnih nanočestica mCNT/SiO_2 i mCNT/WS_2 u kompozitni materijal poliuretan/para-aramidno vlakno/poli (vinil butiral) dolazi do značajnog poboljšanja mehaničkih svojstava, a modifikacijom sa silanima kao kuplujućim agensima, dobijaju se maksimalne vrednosti žilavosti, modula elastičnosti i otpornosti hibridnih nanokompozita na ubod. Balističko ispitivanje otpornosti i dubina penetracije hibridnih nanokompozita uradjeni su i vizuelno analizom slike. U okviru grupe radova **M21a-3.2.15., M21-3.2.1.17., M21-3.2.1.22.**, prezentirani su rezultati optimizacije performansi aramidnih tkanina sa aspekta više parametara među kojima su struktura i svojstva aramidne tkanine, oblik i brzina projektila, adhezija između slojeva, uslovi deaglomeracije nanočestica, nanomehanička i tribomehanička svojstva. Na kraju ove oblasti, u okviru rada **M21a-3.2.1.3.,** koji se odnosi na procesiranja i karakterizaciju materijala za antibalističku zaštitu na bazi aramidnog preprega, fulerenskih nanočestica IF-WS_2, i višeslojnih nanocevi INT-WS_2, ekstremne žilavosti i otpornosti na udar, objavljen je rad sa međunarodnim koautorstvom i započeta je uspešna saradnja sa timom iz Izraela, koja se i dalje nastavlja.

Posebno treba istaći i početne radove na razvoju novih materijala (aktiviranih karbonskih mikro/nanovlakana) koji se koriste u baterijama i superkondenzatorima koji su objavljeni u istaknutim međunarodnim časopisima (**M21a-3.2.1.1**. i **M21-3.2.1.20.**) kao otvaranje nove oblasti istraživanja.

Do pet najznačajnijih publikacija kandidata gde je dominantan doprinos dr Dušice B. Stojanović:

3.2.1.2. **Stojanović, D.B**., Brajović, L., Obradović, V., Mijailović, D., Dramlić, D., Kojović, A., Uskoković, P.S. Hybrid acrylic nanocomposites with excellent transparency and hardness/toughness balance (2020) Progress in Organic Coatings, 139, art. no. 105437, IF

2019=4.469 (Materials Science, Coatings & Films 2/21) ISSN:0300-9440 DOI: 10.1016/j.porgcoat.2019.105437

3.2.1.3. Simić, D. M., **Stojanović, D. B**., Dimić, M., Mišković, K., Marjanović, M., Burzić, Z., Uskoković, P. S., Zak, A., Tenne, R. Impact resistant hybrid composites reinforced with inorganic nanoparticles and nanotubes of WS_2, Composites Part B: Engineering, 176 (2019), 82019107222 IF 2019=7.635 (Materials Science, Composites 1/26) ISSN:1359-8368 doi: 10.1016/j.compositesb.2019.107222

3.7.1.1. **Stojanović D.**, Obradović V., Uskoković P., Radojević V., Jančić-Heinemann R., Kojović A., Zrilić M., Trifunović D., Balistički termoplastični kompoziti ojačani modifikovanim hibridnim nanočesticama na bazi silike i ugljeničnih nanocevi, Projekat MPNRS Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima, Evidencioni broj TR34011, Korisnik Ultrateks, Šabac, Oblast na koju se tehničko i razvojno rešenje odnosi: Materijali i hemijske tehnologije, 2018.

3.2.1.6. Grkovic, M., **Stojanovic, D.B**., Pavlovic, V.B., Rajilic-Stojanovic, M., Bjelovic, M., Uskokovic, P.S. Improvement of mechanical properties and antibacterial activity of crosslinked electrospun chitosan/poly (ethylene oxide) nanofibers Composites Part B: Engineering, 121(2017) 58-67. ISSN:1359-8368 DOI: 10.1016/j.compositesb.2017.03.024

3.2.1.2. Milosevic, M., **Stojanovic, D.B**., Simic, V., Grkovic, M., Bjelovic, M., Uskokovic, P.S., Kojic, M, Preparation and modeling of the three-layered PCL/PLGA/PCL fibrous scaffolds for prolonged drug release, (2020) Scientific Reports, 10 (1), art. no. 11126, IF(2019)= 3.998 (Multidisciplinary Sciences 17/71) ISSN:2045-2322 DOI: 10.1038/s41598-020-68117-9

9. CITIRANOST

Radovi Dušice B. Stojanović su citirani 430 puta (bez autocitata svih autora) u časopisima sa SCI liste (izvor: Scopus na dan 13. septembar 2020.), uz vrednost h-indeksa 11 (Prilog).

10. ELEMENTI ZA KVALITATIVNU OCENU NAUČNOG DOPRINOSA KANDIDATA I MINIMALNI KVANTITATIVNI USLOVI ZA IZBOR

10.1. Pokazatelji uspeha u naučnom radu

Uticajnost publikovanih rezultata naučnoistraživačkog rada dr Dušice B. Stojanović ogleda se i u citiranosti publikovanih radova. Od ukupnog broja radova koje je objavila u časopisima međunarodnog značaja (60), do sada je citirano 52. Pri tome, dosadašnji publikovani radovi dr Dušice B. Stojanović, prema podacima servisa Scopus na dan 13. septembra 2020. godine, ukupno su citirani 502 puta (bez samocitata), odnosno 430 puta (bez samocitata i citata svih koautora) u naučnim časopisima međunarodnog značaja. Prema podacima servisa Scopus, 13. avgusta 2020. godine Hiršov indeks objavljenih radova dr Dušice B. Stojanović iznosi h=12 (bez samocitata), odnosno h=11 (bez samocitata i citata svih koautora). Radovi su citirani u pozitivnom smislu, što zajedno sa brojem citata ukazuje na kvalitet samih radova, kao i na

njihovu uticajnost u okviru naučne oblasti kojom se kandidat bavi. Od izbora u zvanje viši naučni saradnik, objavila je 89 bibliografskih jedinica sa ukupnim koeficijentom M = 309,57, sa ukupnim zbirom impakt faktora IF = 109,216 i prosečnim impakt faktorom po radu od 2,952: jedno poglavlje u istaknutoj monografiji međunarodnog značaja, tj. publikaciji kategorije M13, 10 radova u međunarodnom časopisu izuzetnih vrednosti kategorije M21a, 14 radova u vrhunskim međunarodnim časopisima kategorije M21, 7 radova u istaknutom međunarodnom časopisu kategorije M22, 6 radova u međunarodnom časopisu kategorije M23, 2 rada u međunarodnom časopisu kategorije M24, dva rada kategorije M32, 7 radova kategorije M33, 25 radova kategorije M34, jedan rad kategorije M35, 1 monografsku studiju M43, jedan rad kategorije M51, 4 rada kategorije M52, 5 radova kategorije M63, jedan rad kategorije M64 i dva tehnička rešenja kategorije M82. Kandidat je rukovodilac 3 međunarodna i nacionalna projekta (nakon izbora u prethodno zvanje) i učesnik je na 9 međunarodnih projekata među kojima je **H2020**-Twinning to excel materials engineering for medical devices, EXCELLMATER 2020, jedan projekat finansiran od strane Fonda za nauku Republike Srbije **(PROMIS-Nano-MDSC-Thera)** 2020-03 i učesnik na dva projekta međunarodne saradnje COST akcije (**CA19118**, **CA18120** 2020-). Osvojila je dve nagrade na međunarodnim konkursima i dve nagrade na nacionalnim konkursima (sve nakon izbora u prethodno zvanje). Kandidatkinja je bila recenzent za 22 međunarodna časopisa sa SCI liste i jednog projekta bilateralne saradnje.

10.2. Razvoj uslova za naučni rad, obrazovanje i formiranje naučnih kadrova

Treba istaći doprinos dr Dušice B. Stojanović u obrazovanju i formiranju naučnog podmlatka. Ovaj doprinos se ogleda kroz učešće u vežbama i predavanjima, kao i kroz mentorstvo i pomoć pri teorijskom i eksperimentalnom radu kod diplomskih, master, magistarskih i doktorskih radova. Pored angažovanja u nastavi u okviru visokog obrazovanja, mentorisala je izradu istraživačkog rada učenika Prve beogradske gimnazije (2020. godine), koji je osvojio prvo mesto iz oblasti životne sredine, a takođe je bila uključena u promociju TMF-a u srednjim školama sa budućim studentima fakulteta.

Posle izbora u prethodno zvanje:

10.2.1. Član Komisije (mentor) za pregled, ocenu i odbranu doktorske disertacije:

10.2.1.1. Odlukom br. 35/249 od 06. 07. 2018. godine, imenovana je za mentora za pregled, ocenu i odbranu doktorske disertacije Faisal Ali Alzarruga, Synthesis and characterization of dental composite materials reinforced with nanofibers / Sinteza i karakterizacija dentalnih kompozitnih materijala ojačanih nanovlaknima, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 01-11-2018) http://nardus.mpn.gov.rs/handle/123456789/11110

10.2.2. Član Komisije za pregled, ocenu i odbranu doktorske disertacije:

10.2.2.1. Odlukom br. 35/503 od 22.10.2015. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Vere Obradović, Procesiranje i karakterizacija hibridnih nanokompozitnih materijala povećane otpornosti na udar / Processing and characterisation of hybrid nanocomposite materials with increased impact resistance, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, (29-02-2016) http://nardus.mpn.gov.rs/handle/123456789/6312

10.2.2.2. Odlukom br. 35/195 od 26.06.2017. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Bojane Radoković pod naslovom Fizičko-mehaničke i mikrohemijske promene na površinama keramičkih i metalnih artefakata tretiranih laserom / Physico-mechanical and micro-chemical changes on the ceramic and metal artifacts surfaces treated with laser, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 18-09-2017) http://nardus.mpn.gov.rs/handle/123456789/8842?show=full

10.2.2.3. Odlukom br. 35/183. od 14.04.2016. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Omer Mohamed Yerra pod naslovom Synthesis and characterisation of functional composite materials for applications in dentistry / Sinteza i karakterizacija funkcionalnih kompozitnih materijala za primenu u stomatologiji, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 22-12-2016) http://nardus.mpn.gov.rs/handle/123456789/7644

10.2.2.4. Odlukom br. 35/282 od 26. 05. 2016. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata mr Ivone Janković Častvan pod naslovom Svojstva nanostrukturnih kompozitnih materijala na bazi sepiolita i primena u industriji papira / The properties of sepiolite based nanostructured composite materials and their applications in paper industry, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 26-09-2016) http://nardus.mpn.gov.rs/handle/123456789/7658

10.2.2.5. Odlukom br. 35/35 od 23. 02. 2017. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Ivane Radović pod naslovom Hibridni nanokompozitni materijali sa efektom samozalečenja / Self-healing hybrid nanocomposite materials, Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 14-07-2017) http://nardus.mpn.gov.rs/handle/123456789/8569

10.2.2.6. Odlukom br. 35/38. od 23. 02. 2017. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Hane Ibrahim El Swie pod naslovom Syntesis and characterization of optical polymer composites based on single crystals / Sinteza i karakterizacija optički aktivnih kompozita sa polimernom matricom na bazi monokristala, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 13-07-2017) http://nardus.mpn.gov.rs/handle/123456789/11605

10.2.2.7. Odlukom br. 35-249 od 06.07.2017. godine, imenovana je za člana Komisije za pregled i ocenu doktorske disertacije kandidata Danice Simić, dipl.inž. tehnologije, pod naslovom Balistički hibridni nanokompozitni materijali ojačani neorganskim fulerenima / Ballistic hybrid nanocomposite materials reinforced with inorganic fullerenes, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 09-11-2017) (**nagrada za najbolji doktorat Ministarstva odbrane za 2017)** http://nardus.mpn.gov.rs/handle/123456789/9279 (Prilog)

10.2.2.8. Odlukom br. 35/76 od 07.03.2019. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Jelene Zec, pod naslovom Procesiranje i karakterizacija hibridnih kompozita na bazi polietilena visoke molarne mase / Processing and characterization of hybrid composites based on high molecular weight polyethylene, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 06.09.2019) https://uvidok.rcub.bg.ac.rs/handle/123456789/3339

10.2.2.9. Odlukom br. 35/361 od 20.09.2017. godine, imenovana je za člana Komisije za pregled i ocenu doktorske disertacije kandidata Srđana Perišića pod naslovom Sinteza i karakterizacija hibridnih polimernih kompozita na bazi drveta / Synthesis and characterisation of hybrid polymer composite materials based on wood, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 21-02-2019) http://nardus.mpn.gov.rs/handle/123456789/11042

10.2.2.10. Odlukom br. 35/199 od 31.05.2018. godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Ahmed Ali Algellaia, master inženjera tehnologije, pod naslovom „Adheziona svojstva fotopolimerizujućih kompozitnih filmova na bazi metakrilata i čestica aluminijum oksida za primenu u stomatologiji“, „Adhesion properties of UV-curing methacrylate - alumina particles composite films for use in dentistry“, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 17-10-2018)

http://nardus.mpn.gov.rs/handle/123456789/10226?show=full

10.2.2.11. Odlukom br. 35/227. od 04. 07. 2019.godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Rouaide Mohamed Abozaid pod naslovom Physic mechanical properties of polymer composites with nanomodified single crystals / Fizičko mehanička svojstva polimernih kompozita sa nanomodifikovanim monokristalima, (Univerzitet u Beogradu, Tehnološko-metalurški fakultet, 31-10-2019)

http://nardus.mpn.gov.rs/handle/123456789/12153

10.2.2.12. Odlukom br. 35/46. od 05.03.2020.godine, imenovana je za člana Komisije za pregled, ocenu i odbranu doktorske disertacije kandidata Abdulsalam Ahmed Elmadani pod naslovom Sinteza i karakterizacija hibridnih dentalnih polimernih kompozita poboljšanih mehaničkih svojstava / Synthesis and characterization of hybrid dental polymer composite materials with improved mechanical properties (u toku)

10.2.2. Član Komisije za ocenu podobnosti teme i kandidata za izradu doktorske disertacije:

10.2.2.1 Odlukom Nastavno-naučnog veća Tehnološko-metalurškog fakulteta br. 35/298 od 23.08.2018. godine, imenovana je za člana Komisije za ocenu podobnosti teme i kandidata Anđele N. Radisavljević za izradu doktorske disertacije i naučne zasnovanosti teme pod nazivom „Procesiranje i karakterizacija polimernih nanovlakana sa antimikrobnim efektom za prevenciju infekcija izazvanih kateterizacijom urinarnog trakta“

10.2.3.Član komisije za odbranu završnog master rada:

10.2.3.1. Sanja Mladenović, Savremeni hibridni kompoziti sa polimernom matricom za primenu uautomobilskoj industriji (Nastavno-naučno veće, TMF, 28. 05. 2020. https://ocloud.tmf.bg.ac.rs/index.php/s/interno?path=%2FNastavno%20Naucno%20vece%2F2020#pdfviewer)

10.2.3. Učešće u eksperimentalnom delu i odbrani završnog rada

10.2.3.3. Ivana Cvetinić, Primena kurkumina u nanovlaknima za lečenje degenerativnih bolesti, 30.09.2019. (Prilog)

10.2.3.4. Jelena Šćepanović, Uticaj strukture na termička svojstva poli (laktid-ko-glikolid) nanovlakana dobijenih emulzionim elektropredenjem, 20.12.2018. (Prilog)

10.2.3.2. Dina Ćemalović, Dizajniranje strukture poli (laktid-ko-glikolid) nano/mikrosfera dobijenih emulzionom metodom, 24.06.2016. (Prilog)

Pre izbora u prethodno zvanje:

Pre izbora u zvanje viši naučni saradnik kandidat učestvuje u izradi više diplomskih, magistarskih (master) radova i doktorskih disertacija.

Diktorske disertacije:

1. Somaya Ahmed Ben Hassan, Struktura i fizičko-mehanička svojstva stomatoloških hibridnih kompozitnih materijala, TMF, Beograd, 2014 (sa zajedničkim radovima i zahvalnicom). http://nardus.mpn.gov.rs/handle/123456789/6253?locale-attribute=sr_RS

2. Ramadan Al-Mukhtar Dukali, Sinteza i karakterizacija scintilacionih kompozitnih materijala sa polimernom matricom, TMF, Beograd, 2014 (sa zajedničkim radovima i zahvalnicom). http://nardus.mpn.gov.rs/handle/123456789/5718

3. Salah Salem Musbah, Optička i mehanička svojstva hibridnih nanokompozitnih materijala, TMF, Beograd, 2013 (sa zajedničkim radovima i zahvalnicom).
http://nardus.mpn.gov.rs/handle/123456789/2904

4. Abdolghane M. Torki, Dinamičko-mehanička svojstva hibridnih nanokompozitnih materijala, TMF, Beograd, 2012 (sa zajedničkim radovima i zahvalnicom)
http://nardus.mpn.gov.rs/handle/123456789/2862

5. Goran Vuković, Sinteza, karakterizacija i primena funkcionalizovanih ugljeničnih nanocevi, TMF, Beograd, 2010 (sa zajedničkim radovima i zahvalnicom) http://nardus.mpn.gov.rs/handle/123456789/2925

6. Alaksandar Grujić, Dinamičko-mehanička svojstva hibridnih magnetnih kompozitnih materijala sa polimernom matricom, TMF, Beograd, 2009 (sa zajedničkim radom i zahvalnicom). http://nardus.mpn.gov.rs/handle/123456789/2929

Magistarske teze:

1. Zoran Plećaš, Optimizacija procesa pultruzije unidirekcionih kompozitnih štapova kružnog poprečnog preseka, Beograd, TMF, Beograd, 2005 (sa zajednički radom.) 2. Igor Stanković, Razvoj modela procesa izrade termoplastičnih kompozitnih cevi metodom namotavanja, TMF, Beograd, 2005 (sa zajedničkim radovima.)

Završni master radovi:

1. Željka Madzarević, Dobijanje termoplastičnih polimernih kompozitnih materijala presovanjem, TMF, Beograd, 2010. Marijana Dragić, Dinamičko-mehanička analiza

nanostrukturno modifikovanih kompozitnih materijala aramidna vlakna-poli(vinil-butiral), TMF, Beograd, 2010. 2. Nadia Mohamed Shibob, Nanomehanička karakterizacija kompozita PMMA-silika za stomatološke primene, TMF, Beograd 2011. 3. Djordje Živković, Dobijanje i karakterizacija poli (vinil butiral)/sepiolit kompozitnih nanovlakana i filmova, TMF, Beograd, 2012. 4. Jelena D. Djokić, Procesiranje i nanomehanička svojstva filmova na bazi hitozana za kontrolisano otpuštanje lekova, TMF, Beograd, 2014 (sa zajedničkim radovima) 5. Miran D. Masleša, Fizičko-mehanička svojstva termohromatskih kompozitnih vlakana i filmova, TMF, Beograd, 2014.

Član komisije za odbranu diplomskog rada:

1. Ivana Janković, Uticaj vezujućeg agensa na mehanička svojstva kompozitnog materijala poli (metil metakrilat)-kratka staklena vlakna, TMF, Beograd, 2014.

Pre izbora u naučno zvanje viši naučni saradnik kandidat je učestvovao u izradi više diplomskih radova: 1. Branka Bulajić, Mehanička svojstva poli (metil metakrilata) ojačanog kratkim staklenim vlaknima, TMF, Beograd, 2005. 2. Jelena Ćurčić, Razvoj metode toplog presovanja kompozita polimer stakleno vlakno, TMF, Beograd, 2005. 3. Vesna Martinović, Numerička simulacija elastičnih svojstava čestičnog kompozita po modelu Brick-Wall, TMF, Beograd, 2006. 4. Mladen P. Perišić, Termo-mehanička svojstva hibridnih kompozitnih materijala na bazi recikliranih staklenih vlakana, TMF, Beograd, 2006 (sa zajedničkim radom označenim kao M23-2.3.2.) 5. Jelena Mihajlović, Ispitivanje termo-mehaničkih svojstava polimernih kompozitnih materijala ojačanih česticama bazalta, TMF, Beograd, 2007. 6. Jovan Milićević, Ispitivanje uticaja punila na toplotnu provodnost i stabilnost nanokompozita SiO_2/polietilen visoke gustine, TMF, Beograd, 2007. 7. Ana Tanasković, Modifikacija nanočestica silicijum-dioksida vezujućim agensima na bazi silana, TMF, Beograd, 2007. 8. Ivona Bezeg, Mehanizmi apsorpcije energije udara u nanokompozitnim balističkim materijalima, TMF, Beograd, 2008 9. Ivona Milosevic, Dinamičko-mehanička i optička svojstva termoplastičnih kompozita ojačanih česticama silicijum-dioksida, TMF, Beograd, 2009. 10. Ljiljana Baltić, Termička svojstva kompozitnih materijala na bazi industrijskog otpadnog polietilena, TMF, Beograd, 2009. 11. Jovana Mazek, Termička i mehanička svojstva nanokompozita na bazi poli (vinilbutirala), TMF, Beograd, 2009. 16. Vladimir Sovrlić, Termička i dinamičko mehanička svojstva polimernih balističkih kompozita, TMF, Beograd, 2010. 17. Danka S. Biočanin, Dinamičko-mehanička svojstva nanomodifikovanih hibridnih aramidnih kompozita, TMF, Beograd, 2012. 18. Branka Žunić, Dobijanje i mehanička svojstva hibridnih laminatnih termoplastičnih kompozitnih materijala, TMF, Beograd, 2012. 19. Snežana Jovanović, Dinamičko-mehanička svojstva aramidnih kompozita ojačanih česticama silicijum-karbida i bor-karbida, TMF, Beograd, 2012. 20. Marko Andjelković, Dobijanje i karakterizacija termoplastičnih aramidnih kompozita ojačanih višeslojnim karbonskim nanocevima, TMF, Beograd 2012. 21. Andjela Radisavljević, Nanomehanička svojstva biopolimernih filmova na bazi hitozana i glukomanana ojačanih keratinom, TMF, Beograd, 2013. (dokaz interna dokumenta
(https://ocloud.tmf.bg.ac.rs/index.php/s/interno?path=%2FNastavno%20Naucno%20vece%2F2015#pdfviewer) TMF, 2015.

Tokom letnjeg semestra šk. 2016/17. godine učestvovala je u izvođenju vežbi iz predmeta Ispitivanje fizičko-mehaničkih svojstava materijala na TMF-u (Prilog). Odlukom 35/25 Nastavno-naučnog veća od 28.05.2020. godine, za potrebe akreditacije studijskih programa Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu, dr Dušica B. Stojanović je angažovana u nastavi na predmetima Biokompozitni materijali i Fizičko-mehanička ispitivanja materijala u letnjem semestru i za izvođenje vežbi iz predmeta Biokompozitni materijali i Karakterisanje kompozitnih materijala u zimskom semestru školske 2021/22. godine. (Prilog)

10.3. Organizacija naučnog rada

Dr Dušica B. Stojanović je rukovodilac nacionalnim razvojno-tehnološkim projektom – *Optimization adhesive properties of the material for fixation SMF28 + Corning fiber optic cable,* Green Power Turbine Systems doo, contract No:2225/1, 07.11.2018 i međunarodnim razvojno-tehnološkim projektom –*Thermo-mechanical and structural characterization of the POLYSORB suture,* Medtronic-Covidien AG, 104432693 Victor von Bruns-Strasse 19, 8212 Neuhausen am Rheinfall, Switzerland, contract No:2041/1, 21.09.2016. U ovom periodu nastavlja rukovođenjem potprojektom TR34011 (2015-20220 a posebno treba istaći učešće u projektima međunarodne saradnje finansiranim od strane EU (**H2020**-*Twinning to excel materials engineering for medical devices*, EXCELLMATER Grant agreement ID: 952033 (2020-2023), COST Action "*High performance Carbon-based composites with Smart properties for Advanced Sensing Applicatio*ns" (EsSENce) **CA19118**, Brussels, 2020 do danas, Cost Action **CA18120** "Reliable roadmap for certification of bonded primary structures" CERTBOND, 2020-) i međunarodnom projektu **NOx REMEDATION** Omya International AG CH-4665 Switzerland) (od 2020-). Nakon izbora u zvanje viši naučni saradnik ućestvuje u naučno- istraživačkom projektu koji je finansiran od strane Fonda za nauku, Republike Srbije – *Novel Immunotherapeutic Approaches for Autoimmune Diseases based on Myeloid Derived Suppressor Cells induced by Nanomaterials* (**PROMIS-Nano-MDSC-Thera**), Science Fund of the Republic of Serbia, 2020-03-, GRANT_NUMBER: 6062673. Od ostalih projekata pre izbora u zvanje viši naučni saradnik treba istaći učešće u projektima međunarodne saradnje finansiranim od strane EU (FP7-REGPOT-2009-1 No 245916: NANOTECHFTM: *Reinforcing of Nanotechnology and Functional Materials Centre,* (2009-2012), EUREKA Project: E!5851! *Korišćenje otpadnog perja za razvoj novih kompozitnih materijala i energetskih sirovina,* MPN Republike Srbije: 401-00-38/1/2012-05 (2010-2013), EUREKA Project: E!4040–MEC-REC, *Assessment Of Mechanical Recycling Technologies For Plastics,* MNZŽS (2007-2010), EUREKA Project: E!3524-POLY-COMP, *Polymer matrix and mineral filler compatibility for the production of industrial articles with improved properties*, MNZŽS (2006-2008). U datom periodu ućestvuje u projektima finansiranim od strane nadležnog Ministarstva **(** Projekat: TR 34011 MPNRS, *Razvoj opreme i procesa dobijanja polimernih kompozitnih materijala sa unapred definisanim funkcionalnim svojstvima*, Evidencioni broj 34011 (2010-2015), Projekat 19047: *Razvoj tehnologija i poluindustrujskih postrojenja za dobijanje staklenih, polimernih i hibridnih kompozitnih svetlovodnih kablova* MNZŽS (2008-2010), Projekat IP 106-8011B: *Razvoj tehnologije i industrijskog postrojenja za kontinualno nanošenje UV umrežavajućih polimernih prevlaka na optička vlakna* MNZŽS (2006-2007), Projekat 6744: *Projektovanje tehnologije i*

opreme za izradu hibridnih izolacionih kompozitnih proizvoda na bazi sekundarnih (recikliranih) staklenih vlakana, MNZŽS (2005-2007), Projekat OI 1431: *Molekularno dizajniranje monolitnih i kompozitnih materijala*, MNTR (2001-2004), Projekat TR 0086: *Projektovanje tehnologije i opreme za izradu izolacionih ploča od otpadnog mulja pri prečišćavanju voda u drvnopreradjivačkoj industriji Kopaonik*, Kuršumlija, MNTR (2001-2003) i u nacionalnim razvojno-tehnološkim projektima (Projekat: *Upravljanje polimernim otpadom na teritoriji grada Beograda*, GRAD BEOGRAD, GRADSKA UPRAVA GRADA BEOGRADA, Sekretarijat za zaštitu životne sredine Grada Beograda (2011-2014), Projekat: *Ispitivanje zatezne čvrstoće belih limova, US Steel*, Serbia, (2002-2004).

Pre izbora u zvanje viši naučni saradnik učestvovala je u organizaciji prve i druge međunarodne radionice: „*Processing of Nanostructured Ceramics, Polymers and Composites*“ održane u Beogradu od 29-30. novembra 2010. godine i „*Characterization, Properties, and Applications of Nanostructured Ceramics, Polymers, and Composites*“ održane u Beogradu 24-25. oktobra 2011. godine. U toku 2012. godine učestvovala je u organizaciji prve međunarodne konferencije „*First International Conference on Processing, Characterisation and Application of Nanostructured Materials and Nanotechnology (NanoBelgrade 2012)*“ održane u Beogradu od 25-28. septembra. Aktivno učestvuje i na drugim međunarodnim konferencijama i simpozijumima što se vidi iz priloženih radova: YUCOMAT (2015-2019) Herceg Novi, Montenegro, *Workshop Functional Polymer Materials, Internacionalizacija – steber razvoja Univerze v Mariboru,* University of Maribor, Slovenia, *IV International Congress "Engineering, Environment and Materials in Processing Industry*" Jahorina, Bosnia and Herzegovina, *AUTEX 2019 – 19th World Textile Conference on Textiles at the Crossroads*, 2019, Ghent, Belgium, *AuxDefense 2018 - 1st World Conference on Advanced Materials for Defense*, 2018, Lisabon, Portugal. Trenutno je angažovana na različitim virtuelnim konferencijama (*Virtual Conference on 3D Printing & Additive Manufacturing (i3D Printing-2020*) Organized by Scientistt, 2020, *Basics of thermovision. The use of thermal imaging cameras in solar (PV) farms inspections*. 2020 7414 Hollister Avenue Goleta, Prilog) i organizacijom konferencije na TMF-u u okviru PROMIS-Nano-MDSC-Thera projekta.

10.4. Kvalitet naučnih rezultata

Uticajnost naučnih rezultata dr Dušice B. Stojanović tokom dosadašnjeg naučnoistraživačkog rada se ogleda u kvalitetu objavljenih publikacija. Parametri kvaliteta časopisa u kojima su objavljeni radovi kandidata dati su u bibliografiji kao redni broj u datoj disciplini (tj. pozicija časopisa u određenoj oblasti i impakt factor, kao i broj heterocitata).

Nakon izbora u zvanje viši naučni saradnik, kandidat dr Dušica B. Stojanović objavila je ukupno **89** radova i saopštenja, od toga **37** radova sa SCI liste. Publikovala je jedno poglavlje u knjigama međunarodnog značaja (M13) i jednu monografsku studiju (M43). U kategoriji M20, publikovala je 10 radova u časopisima izuzetnih vrednosti (M21a), 14 u vrhunskim međunarodnim časopisima (M21), 7 u istaknutim međunarodnim časopisima (M22) i 6 u međunarodnim časopisima (M23) sa ukupnim zbirom koeficijenta **M=254,77**, ukupnim impakt faktorom **109,216** i prosečnim impact faktorom po radu od **2,952**. Pored toga, autor je 2 rada M24, 1 rada u vrhunskom časopisu nacionalnog značaja (M51), 4 rada u kategoriji M52, i dva

saopštenja sa međunarodnih skupova štampanih u izvodu (M32), sedam saopštenja sa međunarodnih skupova štampanih u celini, jedne autorizovane diskusije po pozivu M35, 25 saopštenja sa međunarodnih skupova štampanih u izvodu (M34), 5 saopštenje sa skupova nacionalnog značaja štampanih u celini (M63) i jednog saopštenja kategorije M64. Svi radovi kandidata pripadaju grupi eksperimentalnih radova u tehničko-tehnološkim naukama. Osim za radove označene sa zvezdicom (*) koji su normirani na više od 7 koautora prema formuli K/(1+0,2(n-7)) , n>7, u skladu sa Pravilnikom o načinu vrednovanja i kvantitativnom iskazivanju naučno-istraživačkih rezultata, svi ostali prikazani bibliografski rezultati imaju broj koautora jednak ili manji od 7, te se zato ovi radovi priznaju sa punom težinom. Posebno treba istaći radove **3.2.1.1. (IF=6.182), 3.2.1.3. (IF=7.635), 3.2.1.4. (IF=5.189)** sa IF ≥ 5. Posle izbora u prethodno zvanje, raspored autora je bio sledeći:

Kategorija M13 – od 8 autora, kandidat je drugi autor na radu, Kategorija M21a–kandidat je prvi autor na jednom radu, drugi autor i koresponding autor na 5 radova, Kategorija M21–kandidat je drugi autor na 6 radova i koresponding autor na 5 radova, Kategorija M22–kandidat je drugi autor na 9 radova i na 2 rada koresponding autor, Kategorija M23–kandidat je na jednom radu drugi autor. Kategorija M32–kandidat je prvi autor na radovima ove kategorije, Kategorija M33–na dva rada drugi autor, Kategorija M34–kandidat je na 6 radova drugi autor, Kategorija M35–samostalna konferencija autora, kategorija M43–drugi autor u monografskoj studiji, Kategorija M52–drugi autor na jednom radu, Kategorija M63–drugi autor na 4 rada, Kategorija M64–drugi autor. Kategorija M82–normiran na 8 autora, kandidat je prvi i treći autor na tehničkim rešenjima iz ove kategorije. Ukupan broj bibliografskih publikacija u kojima je dr Dušica B. Stojanović bila prvi autor je 29.

Multidisciplinarni pristup i aktuelnost predmeta izučavanja, uslovili su visoku citiranost radova kandidata u međunarodnim časopisima izuzetnih vrednosti:

Progress in Materials Science IF 2019=**31.560** (Materials Science, Multidisciplinary 4/314), Progress in Polymer Science IF 2019=**22.620** (Polymer Science 1/89), Journal of Materials Chemistry. A IF 2019= **11.301** (Energy & Fuels 8/112), Advances in Colloid and Interface Science IF 2019 = **9.922** (Chemistry, Physical 21/159), Journal of Hazardous Materials **IF 2019= 9.038** (Engineering, Environmental 4/53), Carbon IF 2019**= 8.821** (Materials Science, Multidisciplinary 32/314), Journal of Controlled Release IF 2019= **7.727** (Pharmacology & Pharmacy 10/270), Composites Part B: Engineering IF 2019= **7.635** (Materials Science, Composites 1/26), ACS Sustainable Chemistry and Engineering IF 2019 =**7.632** (Engineering, Chemical 8/143), Journal of Colloid and Interface Science IF 2019=**7.489** (Chemistry, Physical31/159), Carbohydrate Polymers IF 2019**=7.182** (Chemistry, Organic 2/57), Composites Science and Technology IF 2019**=7.094** (Materials Science, Composites 2/26), Food Hydrocolloids IF 2019 **= 7.053** (Chemistry, Applied 4/71), Additive Manufacturing IF 2019**= 7.002** (Engineering, Manufacturing, 3/50), 0-8398 Critical Reviews in Food Science and Nutrition IF 2019= **7.862** (Food Science & Technology 4/139), Nanoscale IF 2019= **6.895** (Nanoscience & Nanotechnology 25/103)...

10.4.1. Stepen samostalnosti u naučnoistraživačkom radu i uloga u realizaciji radova u naučnim centrima u zemlji i inostranstvu

Dr Dušica B. Stojanović je tokom doktorskih studija pokazala visok stepen samostalnosti u idejama i kreiranju idejnog eksperimenta, kao i u realizaciji, obradi rezultata i pisanju radova koji su po svojoj prirodi multidisciplinarni. Rezultate svojih istraživanja je sistematski analizirala, objasnila i publikovala u uticajnim međunarodnim i domaćim časopisima i saopštila na međunarodnim i domaćim konferencijama. Navedeni rezultati su jednim delom proistekli kao nastavak istraživanja koja su započela sa doktorskom disertacijom kandidata a veći deo rezultata kandidata je rezultat novih tema i novih oblasti istraživanja, što ukazuje da dr Dušica B. Stojanović ima izrazitu sposobnost da samostalno vodi i realizuje istraživanja, kao i da prenosi znanje i obrazuje nove studente, doktorande i istraživače.

Postignutim rezultatima doprinela je realizaciji više projekata kojima je rukovodila (tri projekta sa međunarodnim i nacionalnim učešćem) i u kojima je učestvovala (11 nacionalnih projekata). Kandidat je tokom svog naučnog rada i angažmanom na međunarodnim i nacionalnim projektima doprineo formiranju više laboratorija na Katedri za KM – Laboratorija za biokompozitne materijale, Laboratorija za RTM tehnologiju, Laboratorija za nanotehnologije i nanomaterijale (elektropredenje i nanoindentacija), Laboratorija za termijsku analizu, Laboratorija za mehanička ispitivanja i Laboratorija za ispitivanje materijala udarom kontrolisane energije sa najsavremenijim uredjajima za procesiranje i karakterizaciju materijala u ovom delu Evrope.

Tokom poslednjih pet godina naučnoistraživačkog rada pokazala je uspeh u timskom radu iz kojeg je proisteklo nekoliko radova sa međunarodnim učešćem u koautorstvu saradnjom u okviru EUREKA Project: E!5851! *Korišćenje otpadnog perja za razvoj novih kompozitnih materijala i energetskih sirovina*, sa prof. dr Simonom Strnad i prof. dr Tatjanom Kreže sa Univerziteta u Mariboru. Uspešnu saradnju je ostvarila sa akademikom Reshef Thenne (Izrael) i akademikom Milošem Kojićem (USA) sa međunarodnim koautorstvom i prethodno navedenim radovima. Osim saradnje sa institucijama u inostranstvu, koje su nabrojane, dr Dušica B. Stojanović sarađuje i sa mnogim naučnim centrima u našoj zemlji (Istraživačko razvojni centar za bioinženjering-BIOIRC, Kragujevac, Institut za primenu nuklearne energije (INEP), Institut za molekularnu genetiku i genetičko inženjerstvo (IMGG), Vojnotehnički institut (VTI), Institut za hemiju, tehnologiju i metalurgiju (IHTM), Institut za fiziku (IPB), Institut tehničkih nauka SANU, Univerziteta u Beogradu, i velikim brojem fakulteta Medicinski, Farmaceutski, Stomatološki, Poljoprivredni fakultet, Univerziteta u Beogradu.

Tabela 1. Kvantitativna ocena naučnih rezultata kandidata dr Dušice B. Stojanović za izbor u zvanje naučni savetnik (2015.-2020.)

Kategorija rada	Vrednost koeficijenta M	Broj rezultata	Zbir vrednosti pojedinih koeficijenata M
Rad u tematskom zborniku međunarodnog značaja (**M13**)	**6**	**1**	**5***
Rad u međunarodnom časopisu izuzetnih vrednosti (**M21a**)	**10**	**10**	**93,39***
Rad u vrhunskom međunarodnom časopisu **(M21)**	**8**	**14**	**108,38***
Rad u istaknutom medjunarodnom časopisu **(M22)**	**5**	**7**	**35**
Rad u međunarodnom časopisu **(M23)**	**3**	**6**	**18**
Rad u nacionalnom časopisu međunarodnog značaja **(M24)**	**3**	**2**	**5,14**
Predavanje po pozivu na međunarodnom skupu štampano u izvodu **(M32)**	**1,5**	**2**	**3**
Saopštenje sa međunarodnog skupa štampano u celini **(M33)**	**1**	**7**	**6,83**
Saopštenje sa međunarodnog skupa štampano u izvodu **(M34)**	**0,5**	**25**	**12,5**
Autorizovana diskusija sa međunarodnog skupa **(M35)**	**0,3**	**1**	**0,3**
Monografska bibliografska publikacija ili monografska studija **(M43)**	**3**	**1**	**3**
Rad u vrhunskom časopisu nacionalnog značaja **(M51)**	**2**	**1**	**2**
Rad u istaknutom nacionalnom časopisu **(M52)**	**1,5**	**4**	**6**
Saopštenje sa skupa nacionalnog značaja štampano u celini **(M63)**	**0,5**	**5**	**2,5**
Saopštenje sa nacionalnog skupa štampano u izvodu **(M64)**	**0,2**	**1**	**0,2**
Novo tehničko rešenje (metoda) primenjeno na nacionalnom nivou **(M82)**	**6**	**2**	**10***
Ukupno		**89**	**311,24**

Ukupno M 315,1 +311,24=626,34 za celokupni naučnoistraživački opus

Uslov za izbor u zvanje viši naučni saradnik za tehničko-tehnološke i biotehničke nauke, koje propisuje Pravilnik o postupku, načinu vrednovanja i kvantitativnom iskazivanju naučno-istraživačkih rezultata istraživača, je da kandidat ima ukupno najmanje 70 poena koji treba da pripadaju sledećim kategorijama:

Tabela 2. Minimalni kvantitativni uslovi za sticanje zvanja **NAUČNI SAVETNIK** za tehničko-tehnološke i biotehničke nauke i ostvareni rezultati

Minimalni kvantitativni zahtevi za sticanje zvanja **NAUČNI SAVETNIK**	Minimalno potrebno	Ostvareno
Ukupno	70	**311,24**
Obavezni (1) M10+M20+M31+M32+M33+M41+M42+M51+M80+M90+M100	54	**281,6**
Obavezni (2)* M21+M22+M23+M81-85+M90-96+M101-103+M108	30	**264,77**

*Napomena:

Za izbor u naučno zvanje naučni savetnik, u grupaciji "Obavezni (2)", kandidat mora da ostvari najmanje 15 poena u kategorijama M21+M22+M23 i najmanje pet poena u kategorijama M81-85+M90-96+M101-103+M108.

M21+M22+M23=**254,77**

M81-85+M90-96+M101-103+M108=**10**

ZAKLJUČAK

Prema kriterijumima o izboru u naučna zvanja i na osnovu detaljne analize naučnoistraživačkog rada i ostvarenih rezultata, dr Dušica B. Stojanović, viši naučni saradnik je pokazala izrazitu sklonost i sposobnost za bavljenje naučnoistraživačkim radom i ispunjava sve uslove neophodne za sticanje zvanja **NAUČNI SAVETNIK**. Komisija smatra da kandidat kvalitetom i kvantitetom naučnoistraživačkog i pedagoškog rada doprinosi razvoju odgovarajuće naučne oblasti i predlaže Nastavno-naučnom veću Tehnološko-metalurškog fakulteta, Univerziteta u Beogradu da ovaj izveštaj prihvati i isti prosledi odgovarajućoj komisiji Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije na konačno usvajanje.

U Beogradu, 24. septembra 2020. godine

Komisija u sastavu:

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1. Prof. dr Petar Uskoković, redovni profesor
Univerziteta u Beogradu, Tehnološko-metalurškog fakulteta

_____

2. Prof. dr Vesna Radojević, redovni profesor
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_____

3. Dr Jasna Stajić-Trošić, naučni savetnik,
Univerziteta u Beogradu, Instituta za hemiju, tehnologiju i metalurgiju,
Instituta od nacionalnog značaja za Republiku Srbiju

_____

4. Prof. dr Đorđe Janaćković, redovni profesor
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5. Prof. dr Radmila Jančić-Heinemann, redovni profesor
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