



**Rezultati načno-istraživačkog rada i inovacione
delatnosti Inovacionog centra Tehnološko -
metalurškog fakulteta, Univerziteta u
Beogradu**

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mart 2019. godine

Inovacioni centar Tehnološko-Metalurškog Fakulteta u Beogradu d.o.o. je osnovan 24. juna 2009.god. odlukom Saveta TMF-a.

Inovacioni centar Tehnološko-metalurškog fakulteta u Beogradu d.o.o. obavlja poslove iz oblasti delatnosti istraživanja, eksperimentalnih i razvojnih projekata u tehnicko tehnološkim naukama doprinoseći stvaranju novih proizvoda, tehnologija, procesa i usluga.

Koristeći sopstvene naučne i stručne potencijale IC TMF razvija inovacije i prototipove, nove proizvode i usluge, vrši transfer znanja i tehnologija u proizvodnju, koja ishoduje u racionalnom i održivom razvoju privrede u zemlji i okruženju.

Posebnu pažnju posvećujemo unapređenju tehnološkog razvoja privrede kroz primenjena tehnička rešenja, inovacije i naučne i stručne rezultate koji imaju neposrednu primenu.

Misija

IC TMF-a na originalan i sistematski način stvara i koristi sopstvene i eksterne naučne i stručne rezultate imajući prvenstveno kao cilj stvaranje inovacija, razvoj prototipova, novih proizvoda i usluga paralelno sa transferom znanja i tehnologija u proizvodnju koja ishoduje u racionalnom i održivom razvoju privrede u okruženju.

Vizija

Inovacioni centar Tehnološko-metalurškog fakulteta u Beogradu postiže izuzetne rezultate na nacionalnom i međunarodnom nivou i njihovom primenom doprinosi ukupnom nivou znanja društva i unapređuju tehnološki razvoj privrede kroz primenjena tehnička rešenja, patente, inovacije, tehnološka unapređenja i rezultate koji imaju neposrednu primenu.

Osnovni pravci razvoja su: sinteza novih funkcionalnih materijala i materijala novih i superiornih karakteristika, inovativna primena razvijanih materijala, korišćenje nanonauka i nanotehnologija i razvoj čistih tehnologija i energetska efikasnost.

Standardi kvaliteta

IC TMF od 27. novembra 2014. poseduje:

ISO 9001 – Sistem menadžmenta kvalitetom,

ISO 14001 – Sistem menadžmenta zaštitom životne sredine i

OHSAS 18001 – Sistem menadžmenta zaštitom zdravlja i bezbednošću na radu.

SADRŽAJ

1. Rezultati naučno istraživačkog rada	1
2. Monografije, monografske studije, tematski zbornici, leskikografske i kartografske publikacije međunarodnog značaja (M11, M12, M13, M14)	2
3. Radovi objavljeni u naučnim časopisima međunarodnog značaja; naučna kritika; uređivanje časopisa (M20).....	6
3.1. Radovi objavljeni u međunarodnim časopisima izuzetnih vrednosti i vrhunskim međunarodnim časopisima (M21a i M21)	6
3.2. Radovi objavljeni u istaknutim međunarodnim časopisima (M22)	48
3.3. Radovi objavljeni u međunarodnim časopisima (M23)	63
3.4. Radovi objavljeni u nacionalnim časopisima međunarodnog značaja (M24).....	90
3.5. Naučne kritike i polemike u istaknutim međunarodnim časopisima (M25).....	97
4. Radovi objavljeni u časopisima nacionalnog značaja (M50)	97
4.1. Radovi objavljeni u vrhunskim časopisima nacionalnog značaja (M51)	97
4.2. Radovi objavljeni u istaknutim nacionalnim časopisima (M52).....	106
4.3. Radovi objavljeni u nacionalnim časopisima (M53).....	112
5. Tehnička rešenja (M80).....	113
5.1. Nova tehnička rešenja primenjena na međunarodnom nivou (M81)	113
5.2. Nova tehnička rešenja (metode) primenjena na nacionalnom nivou (M82).....	114
5.3. Bitno poboljšana tehnička rešenja na međunarodnom nivou (M83).....	119
5.4. Bitno poboljšana tehnička rešenja na nacionalnom nivou (M84)	121
5.5. Nova tehnička rešenja (M85)	124
5.6. Prijave međunarodnih patenata (M86)	126
5.7. Prijave domaćih patenata (M87).....	127
6. Patenti (M90)	131
6.1. Registrovani patenti na nacionalnom nivou (M92)	131
6.2. Objavljeni patenti na nacionalnom nivou (M94)	133
6.3. Realizovana, sorta, rasa ili soj na nacionalnom nivou (M96).....	134
7. Realizovani komercijalni projekti sa privredom	135
7.1. Ugovoreni poslovi sa privredom na domaćem tržištu	135

7.2. Ugovoreni poslovi sa privredom na međunarodnom tržištu.....	147
8. Inovacioni i međunarodni projekti	149
8.1. Inovacioni projekti.....	149
8.2. Ostali projekti u oblasti inovacija	152
8.3. Međunarodni projekti	153
8.3.1. COST Akcije	155
8.3.2. EUREKA projekti.....	156
8.3.3. Bilateralni projekti	157
PRILOG.....	161

1. Rezultati naučno istraživačkog rada

U nastavku je dat prikaz naučno-istraživačkih rezultata postignutih u periodu od kraja 2009. do kraja 2018. godine. Prikazani su samo rezultati iz kategorija **M10, M20, M50, M80 i M90** (Tabela 1.).

Tabela 1. Naučno-istraživački rezultati postignuti u periodu od kraja 2009. do kraja 2018. godine

Naziv grupe rezultata	Vrsta i oznaka rezultata*	Broj objavljenih rezultata
Radovi objavljeni u naučnim časopisima međunarodnog značaja; naučna kritika; uređivanje časopisa (M20)	Radovi objavljeni u međunarodnim časopisima izuzetnih vrednosti i vrhunskim međunarodnim časopisima (M21a) (M21)	365
	Radovi objavljeni u istaknutim međunarodnim časopisima (M22)	121
	Radovi objavljeni međunarodnim časopisima (M23)	239
	Radovi objavljeni u nacionalnim časopisima međunarodnog značaja (M24)	58
	Naučne kritike i polemike u istaknutim međunarodnim časopisima (M25)	1
Radovi objavljeni u časopisima nacionalnog značaja (M50)	Radovi objavljeni u vrhunskim časopisima nacionalnog značaja (M51)	86
	Radovi objavljeni u istaknutim nacionalnim časopisima (M52)	52
	Radovi objavljeni u nacionalnim časopisima (M53)	10
Tehnička rešenja (M80)	Nova tehnička rešenja primenjena na međunarodnom nivou (M81)	4
	Nova tehnička rešenja (metode) primenjena na nacionalnom nivou (M82)	28
	Bitno poboljšana tehnička rešenja na međunarodnom nivou (M83)	14
	Bitno poboljšana tehnička rešenja na nacionalnom nivou (M84)	18
	Nova tehnička rešenja (nije komercijalizovano) (M85)	13
	Prijave međunarodnih patenata (M86)	9
	Prijave domaćih patenata (M87)	30
Patenti (M90)	Registrovani patenti na nacionalnom nivou (M92)	7
	Objavljeni patenti na nacionalnom nivou (M94)	8
	Realizovana, sorta, rasa ili soj na nacionalnom nivou (M96)	3

*Pravilnik o postupku, načinu vrednovanja i kvantitativnom iskazivanju naučnoistraživačkih rezultata istraživača ("Sl. glasnik RS", br. 24/2016 i 21/2017)

2. Monografije, monografske studije, tematski zbornici, leskikografske i kartografske publikacije međunarodnog značaja (M11, M12, M13, M14)

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9. Dušan Mišić, Dušan Milivojević, Jelena Ašanin: The influence of certain supercritical plant extracts on biofilm formation in *Pseudomonas aeruginosa*. In: Rój E. Ed. Supercritical fluid applications, New Chemical Syntheses Institute, Pulawy, Poland, 2016, pp. 131-150, ISBN 978-83-935354-1-5.
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3.1. Radovi objavljeni u međunarodnim časopisima izuzetnih vrednosti i vrhunskim međunarodnim časopisima (M21a i M21)

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2013. godina

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6. M. Jovanović, D. Stevanović, M. Mihajlović, M. Karanac, A. Dajić, J. Jovanović, D. Mitić, D. Đurović, B. Anđelić, „Tehnološki postupak proizvodnje veštačke mineralne barijere sačinjene od mešavine bentonita i peska ojačane polimerom“, rezultat Inovacionog projekta I – 135 „Razvoj vodonepropusnog materijala vrhunskih osobina za izgradnju deponija otpada na bazi

domaćih sirovina“, korisnik Pro Voding, Beograd, godina: 2013. mišljenje korisnika u dokumentaciji projekta I – 135 (M83).

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2015. godina

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2018. godina /

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2012. godina

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voda energetske postrojenja primenom čistije proizvodnje“, korisnik: ProVoding, Beograd, godina: 2012. mišljenje korisnika u dokumentaciji projekta TR 34009 (M84).

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2018. godina

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2012. godina /

2013. godina

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2015. godina /

2016. godina

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2. M. Jovanović, A. Veljašević, M. Mihajlović, M. Karanac, D. Stevanović, J. Jovanović „Studija identifikacije otpadnih voda Pogona „Oplemenjivanje uglja“ u PD RB „Kolubara“ doo - ogranak Prerada, Vreoci”, rezultat TR 34009 „Razvoj tehnoloških procesa za tretman otpadnih voda energetskih postrojenja primenom čistije proizvodnje“, korisnik: Elektroprivreda Srbije, godina: 2012. mišljenje korisnika u dokumentaciji projekta TR 34009 (M86).

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2014. godina

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2015. godina

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2018. godina

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5.7. Prijave domaćih patenata (M87)

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19. Mišković-Stanković V., Djošić M., Janković A., „Dobijanje biokompatibilnih kompozitnih prevlaka hidroksiapatit/hitozan sa gentamicinom na titanu iz vodene suspenzije“, patentna prijava br P-2017/0732, Zavod za intelektualnu svojinu Republike Srbije, od 19.07.2017
20. Mišković-Stanković V., Djošić M., Janković A., „Dobijanje biokompatibilnih kompozitnih prevlaka hidroksiapatit/hitozan/grafen sa gentamicinom na titanu iz vodene suspenzije“, patentna prijava br P-2017/0731, Zavod za intelektualnu svojinu Republike Srbije, od 19.07.2017.
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2018. godina

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6. Patenti (M90)

6.1. Registrovani patenti na nacionalnom nivou (M92)

2011. godina

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2012. godina /

2013. godina

2. N. Novaković, Aleksandar Marinković, Jelena Rusmirović, Dušan Mijin, Milutin Milosavljević, „Novi postupak za proizvodnju biodegradabilnih filmova na bazi polietilena”, Patentna prijava br. P–2013/0249 Republički zavod za intelektualnu svojinu Republike Srbije, 2016. Registrovani subjekt RPC „Nora” d.o.o. je nosilac inovacione aktivnosti projekta „Razvoj novih tehnologija za proizvodnju novih, tankih ekološki prihvatljivih ambalažnih materijala”, Evidencioni br. 451-03-00605/2012-16/113 (potvrda od proizvođača).

2014. godina

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2015. godina

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2016. godina

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2017. godina /

2018. godina

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6.2. Objavljeni patenti na nacionalnom nivou (M94)

2017. godina

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2. Mišković-Stanković V., Jevremović I., Janković A., „Dobijanje kompozitnih diskova hidrogelova polivinil alkohol/grafen sa inkorporisanim nanočesticama srebra“, objava patentne prijave broj P-2015/0784, u „Glasniku intelektualne svojine“ Republike Srbije, broj 5/2017 od 31.05.2017.
3. Ž. Kamberović, V. Manojlović, M. Sokić, M. Gavrilovski, V. Đokić, Postupak i proizvod nastao obradom otpadne aluminijumske folije, Prijava patentna: P-2016/1069 A1, Zavoda za intelektualnu svojinu Republike Srbije, Datum objavljivanja patentna 31.10.2017.
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5. Viktor Pocajt, Davor Antanasijević, Jelena Antanasijević, Nova metoda za razvoj regresionih mt-QSAR i mtk-QSAR modela primenom modularne neuronske mreže, P-2016/1133, Glasnik intelektualne svojine 4 (2017), p. 8. ISSN 2217-9143.

2018. godina

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8. J. Nikolić, S. Grujić, S. Matijašević, S. Smiljanić, V. Savić, V. Topalović, A. Vujošević, D. Popović, "Primena ultra-fosfatnog stakala za ishranu biljaka", Patentna prijava P-2018/0783, Zavoda za intelektualnu svojinu Republike Srbije; Glasnik intelektualne svojine 2018/11; Datum objavljivanja patentna 30.11.2018.

6.3. Realizovana, sorta, rasa ili soj na nacionalnom nivou (M96)

2015. godina

1. Nikolić M., Cerović R., Radičević S., Milenković S. (2014): Nevena – nova sorta višnje (*Prunus cerasus* L.). Rešenje Ministarstva poljoprivrede i zaštite životne sredine RS br. 320-04-00567/2011-11 od 19. januara 2015. godine (sednica održana 29. decembra 2014. godine).
2. Cerović R., Nikolić M., Milenković S., Radičević S. (2014): Sofija – nova sorta višnje (*Prunus cerasus* L.). Rešenje Ministarstva poljoprivrede i zaštite životne sredine RS br. 320-04-00566/2011-11 od 19. januara 2015. godine (sednica održana 29. decembra 2014. godine).
3. Nikolić M., Cerović R., Mitrović M. (2014): Iskra – nova sorta višnje (Köröser Weichsel × Heimanns Rubin). Rešenje Ministarstva poljoprivrede i zaštite životne sredine RS br. 320-04-00568/2011-11 od 19. januara 2015. godine (sednica održana 29. decembra 2014. godine).

7. Realizovani komercijalni projekti sa privredom

Inovacioni centar realizovao je preko 160 ugovora sa preko 50 privrednih društava iz zemlje i inostranstva. Ugovori se odnose na: elaborate, projekte, analize, studije, tehnička dokumentacija i ostale usluge.

7.1. Ugovoreni poslovi sa privredom na domaćem tržištu

2010. godina

1. Željko Kamberović, Sirmium steel, Sremska Mitrovica - Izrada tehnološkog rešenja tretmana filterske prašine iz procesa elektrolučnog topljenja čelika; Vrednost: 1.838.313,76 RSD;
2. Željko Kamberović, Monbat, Indija - Izrada Elaborata neophodnih za podošenje zahteva za izdavanje integrisane dozvole; Vrednost: 797.680,00 RSD;
3. Željko Kamberović, Sirmium steel, Sremska Mitrovica - Izrada Elaborata o najboljim dostupnim tehnikama koje operater postrojenja primenjuje;
4. Željko Kamberović, Rudarsko-geološki fakultet, Bgd - XRF ispitivanje otpadnih materijala topionice bakra u Boru; Vrednost: 125.820,30 RSD;
5. Željko Kamberović Metalik, Šabac - Izrada Elaborata o postupanju sa aktivnim ugljem; Vrednost: 259.600,00 RSD;
6. Željko Kamberović, NBS - Zavod za izradu novčanica, Bgd Termički obrađena legura aluminijuma serije 7HHH, pogodna za izradu alata za deformisanje aluminijuma; Vrednost: 3.175.868,03 RSD;
7. Milorad Krgović Altech - fermin, Senta Ispitivanje kvaliteta sirovina ambalažnih proizvoda; Vrednost: 382.813,32 RSD;
8. Milorad Krgović Fabrika hartije, Beograd - Izrada projektne - tehničke dokumentacije za projekat rekonstrukcije i projekotvanje tehnologije u Fabrici hartije a.d., Beograd.
9. Tehnički izveštaj ispitivanja uzroka pojave prslina u zavarenim spojevima katalitičkih cevi, Ugovor br.180/2010 od 31.05.2010.

2011. godina

10. Željko Kamberović Zavod za izradu novčanica - Termički obrađena legura aluminijuma iz 7hhh dimenzije 80h15mm; Vrednost: 743.400,00 RSD;
11. Željko Kamberović S.E. Trade - Izrada Studije o proceni uticaja na životnu sredinu postrojenja za reciklažu električnog i elektronskog otpada; Vrednost: 299.997,45 RSD;
12. Željko Kamberović Centrar za reciklažu - Metalurško vrednovanje i ispitivanje hemijskog sastava dostavljenih uzoraka aluminijuma; Vrednost: 316.240,00 RSD;
13. Željko Kamberović MIP Livnica Čuprija - Mehaničko ispitivanje dostavljenih uzoraka; Vrednost: 9.440,00 RSD;
14. Milorad Krgović Fabrika hartije, Beograd - Izrada projektne-tehničke dokumentacije za projekat rekonstrukcije i projektovanje tehnologije u Fabrici hartije Beograd; Vrednost: 597.657,02 RSD;
15. Željko Kamberović Metalfer Steel - Ispitivanje hemijskog sastava, mikrostrukture i tvrdoće dostavljenih uzoraka; Vrednost: 187.443,00 RSD;
16. Mića Jovanović NIS, Novi Sad - Izrada Studije utvrđivanja evaporativnih gubitaka za sirovinske rezervoare za prijem, čuvanje i otpremu nafte u Rafineriji nafte Pančevo; Vrednost: 826.000,00 RSD;
17. Jasna Đonlagić Zvezda Helios, Gornji Milanovac - Rad na naučno-istraživačkom projektu pod nazivom "Antikorozivni nanokompoziti. Vrednost: 96.000,00 RSD;
18. Elaborat „Ispitivanja uzoraka vijaka sa plovne glave izmenjivača 36-E03“, Ugovor br.82/2011 od 17.03.2011.
19. Elaborat „Ispitivanja uzroka loma opruga sigurnosnih ventila 05-PSV299 i 05-PSV128“, Ugovor br.119/2011 od 01.04.2011.
20. Elaborat „Ispitivanja uzroka loma vijaka sa usisnih i potisnih ventila IV stepena kompresora 05-K1B“, Narudžba br. Sp.143K/11 od 03.06. 2011. god.

2012. godina

21. Željko Kamberović GSP, Beograd - Ispitivanje kočionih otpornika trolejbusa VKM-321; Vrednost: 184.080,00 RSD;
22. Branimir Grgur GSP, Beograd - Ispitivanje karakteristika olovnog akumulatora; Vrednost: 64.900,00 RSD;

23. Željko Kamberović Rudarsko-geološki fakultet - Hemijska analiza otpadnog materijala sa lokacije Topionice bakra u Boru; Vrednost: 558.000,00 RSD;
24. Željko Kamberović Centar za reciklažu - Ispitivanje dostavljenih uzoraka aluminijuma; Ispitivanje dostavljenih uzoraka sa oznakom Zorba; Vrednost: 43.660,00 RSD;
25. Mića Jovanović HIP Petrohemija Pančevo - Izrada sanacije privremene deponije stabilisanog mulja u Fabrici za obradu voda; Vrednost: 1.239.738,23 RSD;
26. Željko Kamberović Obnova kompani, Bgd - Ispitivanje karakteristika plombi tip RKE-1 za železnički saobraćaj; Vrednost: 23.600,00 RSD;
27. Željko Kamberović Božić i sinovi, Pančevo - Izrada Studije izvodljivosti u manjem obimu za pirometalurški postupak valorizacije korisnih komponenti iz železonosnih disperznih sirovina i domaćih ruda; Vrednost: 295.000,00 RSD;
28. Željko Kamberović Fabrika elektrograjača Srećko - Ispitivanje uzoraka bakarnih cevi; Vrednost: 14.160,00 RSD;
29. Željko Kamberović Metalfer doo, Sremska Mitrovica - Izrada Studije izvodljivosti u manjem obimu za pirometalurški postupak valorizacije korisnih komponenti iz železonosnih disperznih sirovina i domaćih ruda; Vrednost: 295.000,00 RSD;
30. Željko Kamberović Monbat, Indija - Izrada Elaborata neophodnih za podnošenje zahteva za izdavanje integrisane dozvole; Vrednost: 908.789,90 RSD;
31. Željko Kamberović SGS, Beograd - Ispitivanje dostavljenih uzoraka berni;
32. Željko Kamberović ISTEP, Beograd - Tehnička kontrola projekata sanacije otpadnih lugova na lokaciji fabrike Matroz Sremska Mitrovica; Vrednost: 309.694,40 RSD;
33. Ljubinka Rajaković EPS, TENT B, Obrenovac - Ekspertska analiza pogonskih voda u TENT B, analiza kvaliteta i mišljenje o kvalitetu 27 uzoraka vode; Vrednost: 1.132.800,00 RSD;
34. Željko Kamberović Sirmium Steel, Sremska Mitrovica - Izrada Elaborata neophodnih za podnošenje zahteva za izdavanje integrisane dozvole; Vrednost: 1.394.924,26 RSD;
35. Željko Kamberović Green Metallurgy - Izrada Studije izvodljivosti u manjem obimu za pirometalurški postupak valorizacije korisnih komponenti iz železonosnih disperznih sirovina i domaćih ruda; Vrednost: 300.000,00 RSD;
36. Ljubinka Rajaković RB Kolubara, Lazarevac - Analiza kvaliteta i mišljenje o kvalitetu oksidnog sloja i depozita na zidovima kotlovske cevi u RJ Toplana, Ogranaik Prerada Vreoci; Vrednost: 354.000,00 RSD;

37. Željko Kamberović PTT Namenka, Trstenik - Projektovanje i izrada alata za presovanje
Vrednost: 74,587.79 RSD;
38. Željko Kamberović Elmas system, Beograd - Ispitivanje dostavljenih uzoraka stezaljki;
Vrednost: 9,600.00 RSD;
39. Željko Kamberović RTB Bor - Tehnička kontrola Projekta fabrike za tretman otpadnih voda za potrebe Projekta rekonstrukcije Topionice bakra u Boru; Vrednost: 558.000,00 RSD;
40. Mića Jovanović NIS, Novi Sad - Izrada Studije utvrđivanja evaporativnih gubitaka na otpremnim - prijemnim instalacijama NIS-Rafinerije nafte Pančevo i upotrebom odgovarajućeg softvera. Vrednost: 1.508.055,64 RSD;
41. Elaborat „Ispitivanja veze prednje i zadnje šasije sa okretnicom autobusa IK-206“, Ugovor br.03.12.CIS.IN od 24.02.2012. Naručilac: „IKARBUS“ – fabrika autobusa i specijalnih vozila a.d. Zemun; Izvršilac: Institut Goša doo.

2013. godina

42. Željko Kamberović REC - EE- O, Železnik - Izrada Idejnog tehnološkog projekta postrojenja sa izvodom za potrebe izrade Studije o proceni uticaja na životnu sredinu; Vrednost: 308.417,86 RSD;
43. Nenad Radović GSP Beograd - Ispitivanje karakteristika materijala od kojeg je izrađen trolni klizač; Vrednost: 211.456,00 RSD;
44. Željko Kamberović ISTEP, Beograd - Ispitivanje dostavljenih uzoraka; Vrednost: 10.800,00 RSD;
45. Željko Kamberović Mg Serbian, Baljevac - Izrada Tehnološkog projekta izvedenog objekta pogona za proizvodnju Mg legura iz otpada na bazi magnezijuma nestandardnog kvaliteta do komercijalnog proizvoda definisanih osobina; Vrednost: 204.000,00 RSD;
46. Željko Kamberović Elixir group, Šabac - Razvoj tehnološkog rešenja prerade međuprodukata hidrometalurgije cinka do komercijalnih proizvoda; Vrednost: 2.434.917,13 RSD;
47. Željko Kamberović Železnice Srbije, Beograd - Ispitivanje uzoraka prsnuća varova na spoju rebro-ploča kod podložnih ploča na skretnicama i razlog usecanja šine u rebra; Vrednost: 288.600,00 RSD;
48. Željko Kamberović Monbat, Indija - Izrada mišljenja sa izvodom iz tehnološkog projekta, koje uključuje novi materijalni bilans, opis primenjenih tehnoloških postupaka i nove indeksne brojeve ulaznih sirovina, otpada i međuproizoda; Vrednost: 416.490,83 RSD;

49. Željko Kamberović SGS, Beograd - Obrada i analiza uzoraka B i C otpada iz Železare Smederevo; Obrada i analiza uzoraka iz Železare Zenica; Vrednost: 787,200.00 RSD;
50. Ljubinka Rajaković EPS - TENT B, Obrenovac - Ispitivanje kvaliteta i ekspertska analiza pogonskih voda u TENT-u B (14 uzoraka voda); Vrednost: 708.000,00 RSD;
51. Milorad Zrilić Građevinski fakultet - Zatezna ispitivanja limova; Vrednost: 54.840,00 RSD;
52. Željko Kamberović Elixir group doo, Šabac - Priprema uzoraka i metalurško vrednovanje produkata testa prerade Jarosita;
53. Ljubinka Rajaković RB Kolubara, Ogranak Prerada, Vreoci - Analiza kvaliteta i mišljenje o kvalitetu jonoizmenjivačkih smola, za Vreoce – Prerada; Vrednost: 374.400,00 RSD;
54. Željko Kamberović Energoprojekt Izrada Generalnog projekta Rekonstrukcije pogona sinter metalurgije u cilju proizvodnje kontaktnih materijala na bazi srebra; Vrednost: 268.383,48 RSD;
55. Željko Kamberović Projmetal, Beograd Izrada Idejnog projektnog rešenja proizvodnje $\text{CuSO}_4 \cdot x\text{H}_2\text{O}$ iz $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$; Vrednost: 349.235,02 RSD;
56. Željko Kamberović Le Belier Livnica, Kikinda - Izrada Tehničke dokumentacije i pružanje konsultantnih usluga u postupku legalizacije objekta i pribavljanja integrisanih dozvola; Vrednost: 1.301.730,56 RSD;
57. Mića Jovanović Nikola Tesla, TENT B, Obrenovac - Izrada idejnog projekta adaptacije laboratorije za analizu karakteristika goriva; Vrednost: 1.440.000,00 RSD;
58. Ljubinka Rajaković ZEN, Smederevo - Ispitivanje kvaliteta uzoraka praha za gašenje požara i mišljenje o kvalitetu za ZEN, Smederevo; Vrednost: 38.400,00 RSD;
59. Dragan Povrenović Hemofarm, Šabac - Pružanje konsultantnih usluga; Vrednost: 479.760,00 RSD;
60. Dušan Rajić Agencija za lekove - Izrada Plana zaštite od udesa u Agenciji za lekove i medicinska sredstva Srbije; Vrednost: 381.600,00 RSD;
61. Ljubinka Rajaković Stigohem, Zemun - Ispitivanje kvaliteta kalcijum-hlorida za Stigohem i mišljenje o kvalitetu; Vrednost: 24.600,00 RSD;
62. Ljubinka Rajaković EPS - TENT B, Obrenovac - Ispitivanje kvaliteta i ekspertska analiza pogonskih voda u TENT-u B (28 uzoraka voda); Vrednost: 1.080.000,00 RSD;

63. Željko Kamberović GIP Konstruktor, Beograd - Određivanje hemijskog sastava dostavljenih uzoraka i njegovo poređenje u odnosu na vrednosti u sertifikatima proizvođača; Vrednost: 95.796,20 RSD;
64. Željko Kamberović Božić i sinovi, Pančevo - Izrada izveštaja o uzorku paljenja EAFD i izvoda iz Generalnog projekta. Vrednost: 402.893,94 RSD.

2014. godina

65. Željko Kamberović Adria Construction Group, Bgd; Vrednost: 428.502,36 RSD;
66. Željko Kamberović Al Pack, Subotica - Eksperimentalno ispitivanje metalurške prerade otpada od aluminijumske folije; Vrednost: 136.253,38 RSD;
67. Željko Kamberović Centar za reciklažu, Železnik; Vrednost: 36.000,00 RSD;
68. Ljubinka Rajaković Fabrika hartije Beograd - Izrada studije i izveštaja: Izbor hemikalija koje se doziraju u termoenergetski sistem Fabrike hartije u cilju unapredjenja rada sistema; Vrednost: 180.000,00 RSD;
69. Željko Kamberović GIP Konstruktor; Bgd - Obuka i izdavanje Uverenja o stručnoj osposobljenosti AT zavarivača; Vrednost: 72.000,00 RSD;
70. Karlo Raić IT Medica vita, Bgd - Ispitivanje postupka bojenja aluminijumskih pločica; Vrednost: 35.000,00 RSD;
71. Željko Kamberović Le Belier, Kikinda; Vrednost: 1.316.002,99 RSD;
72. Željko Kamberović Metal Recovery, Bgd - Razvoj tehnološkog rešenja prerade mešuprodukata hirometalurgije cinka i sinergetskih sirovina do komercijalnih proizvoda; Vrednost: 159.184,52 RSD;
73. Ljubinka Rajaković Metalac, Gornji Milanovac - Ispitivanje brzine korozije u cilju sprečavanja korozije bojlera proizvedenih u fabrici Metalac, Gornji Milanovac;
74. Ljubinka Rajaković Mibex, Novi Sad - Ispitivanje kvaliteta hlorovodonične kiseline za MIBEX DD Novi Sad i mišljenje o kvalitetu;
75. Ljubinka Rajaković RT Kolubara - Prerada Ekspertska analiza kvaliteta i mišljenje o kvalitetu jonoizmenjivačkih smola, za Vreoce-Prerada;
76. Željko Kamberović RTB Bor - Izrada tehničko-tehnološkog rešenja rekonstrukcije postojećeg postrojenja za neutralizaciju slabe kiseline u cilju tretmana otpadnih tokova FSF i PSC topionice bakra u Boru; Vrednost: 5.298.000,00 RSD;

77. Ljubinka Rajaković Sitigohem, Zemun - Ispitivanje kvaliteta hlorovodonične kiseline za STIGOHEM i mišljenje o kvalitetu;
78. Željko Kamberović Triangla, Novi Sad - Obuka i izdavanje Uverenja o stručnoj osposobljenosti AT zavarivača; Vrednost: 72.000,00 RSD;
79. Željko Kamberović Yunirisk, Bgd - Izrada tehničke dokumentacije radi pribavljanja integrisane dozvole; Vrednost: 2.469.067,68 RSD
80. Pavle Spasojević Apoteka, Beograd - Ispitivanje stabilnosti preparata proizvedenih od strane apoteke Beograd.

2015. godina

81. Mića Jovanović Interoil, Požarevac - Izrada idejnog tehnološkog projekta postrojenja za skladištenje i tretman otpadnih ulja;
82. Mića Jovanović A.S.A. Kikinda Idejni tehnološki projekat pogona za tretman otpada ASA Kikinda;
83. Pavle Spasojević Apoteke Beograd - Ispitivanje zaštitnog faktora (SPF) kozmetičkih proizvoda;
84. Lj.Rajaković Cini Čačak - Ispitivanje kvaliteta uzoraka radijatorske vode i mišljenje o kvalitetu;
85. Lj.Rajaković Dijamant, Zrenjanin - Ispitivanje kvaliteta uzoraka naslaga u kotlovskim cevima i mišljenje o kvalitetu;
86. Marija Korać Eco-recycling, N. Sad - Ispitivanje uzoraka čelične žice dobijene procesom reciklaže otpadnih pneumatika; Vrednost: 30.000,00 RSD;
87. Ž.Kamberović Energogroup, Bgd - Izrada projektno-tehničke dokumentacije za projekat livnice delova auto motora u Bariču – Idejno tehnološko rešenje (IDR); Vrednost: 1.491.364,76 RSD;
88. Lj.Rajaković EPS Kostolac Izrada dela Projekta - Konsalting usluga za izračunavanje merne nesigurnosti, validacije metode, PT šeme za potrebe eko laboratorije TE KO Kostolac;
89. M.Gavrilovski GIP Konstruktor - Aluminotermijska obuka;
90. Lj.Rajaković GO Obrenovac - Kratak elaborat: Predlog optimalnih mera remedijacije površina koje su bile pod uticajem otpada u Prvoj iskri, Barič;
91. Pavle Spasojević Jugoplastic Recycling - Merenje graničnog viskozitetnog broja flekica otpadnog poli(etilen teraftalata);

92. Ž.Kamberović, Le Belier, Kikinda - Izrada Tehničke dokumentacije i pružanje konsultantskih usluga u postupku legalizacije objekata i pribavljanja integrisane dozvole, Vrednost: 1.300.562 RSD;
93. D.Stevanović, Luxury Tannery, Ruma Izrada Elaborata o načinu postupanja sa otpadima iz industrije kože; Vrednost: 384.000 RSD;
94. Ž.Kamberović, Metalfer steel mill, S.Mitrovica - Izrada Studije o proceni uticaja na životnu sredinu projekta Dogradnje i rekonstrukcije postojećeg objekta – hale valjaonice za mehaničku obradu sa promenom namene u valjaonicu sa opremom; Vrednost: 648.394 RSD;
95. Ž.Kamberović Mg Serbien, Baljevac - Izrada Tehnološkog projekta izvedenog objekta pogona za proizvodnju Mg legura iz otpada na bazi magnezijuma nestandardnog kvaliteta do komercijalnog proizvoda definisanih osobina;
96. Z.Andić, Mg Serbien, Baljevac - Tehno-ekonomska analiza rekonstrukcije primarne proizvodnje magnezijuma u kompleksu Mg Serbien; Vrednost: 1.314.285 RSD;
97. Endre Romhanji Nissal - Newmet, Niš - Laboratorijska ispitivanja dostavljenih uzoraka;
98. M.Gavrilovski Regikol, Lazarevac - Aluminotermijska obuka za Evropskog aluminotermijskog zavarivača za jednog radnika REGIKOL doo, i izdavanje sertifikata; Vrednost: 48.000 RSD;
99. Ž.Kamberović SET Recikalaža - Izrada tehničke dokumentacije za potrebe pribavljanja saglasnosti na - Studiju o proceni uticaja na životnu sredinu projekta Postrojenja za reciklažu rashladnih uređaja i CRT monitora i konsultantske usluge; Vrednost: 1.012.174 RSD;
100. Ž.Kamberović Srpsko livačko društvo - Izrada dela idejnog projekta i tehnička kontrola za potrebe Livnice MIP-armature iz Čuprije; Vrednost: 36.000 RSD;
101. M.Gavrilovski SŽ ŽGP - Aluminotermijska obuka za Evropskog aluminotermijskog zavarivača za tri radnika SŽ ŽGP doo, i izdavanje sertifikata; Vrednost: 72.000 RSD;
102. Lj.Rajaković TE Nikola Tesla, Obrenovac - Ekspertska analiza pogonskih voda u TENT-u B, analiza kvaliteta i mišljenje o kvalitetu 40 uzoraka vode;
103. Ž.Kamberović Tesla patenti, Bgd Izrada Baznog eksperimentalnog istraživanja valorizacije PG metala plazma tehnologijom; Vrednost: 720.792 RSD;
104. Pavle Spasojević Tetragon, Čačak Analiza sastava lepkova za laminaciju toalet papira.
105. Ž.Kamberović Yunirisk Određivanje obima i sadržaja studije o proceni uticaja na životnu sredinu; Vrednost: 653.780 RSD;

106. Mića Jovanović, JKP Obrenovac, Izrada idejnog rešenja zatvaranja deponije Grebača uz iskorišćenje potencijala deponijskog gasa – I faza;
107. Mića Jovanović JKP Duboko Izrada studije modelovanja kvantiteta i kvaliteta ispuštanja deponijskog gasa JKP Regionalnog centra za upravljanje otpadom Duboko;
108. Pavle Spasojević ZU Apoteka Lilly drogerie Ispitivanje stabilnosti kozmetičkih proizvoda. Vrednost: 120.000 RSD.
109. Dj. Janačković, Dj. Veljović, R. Petrović, B. Jokić, I. Janković-Častvan, Ž. Radovanović, V. Pavlović, N. Gojković, V. Čebašek, M. Korakianiti, N. Pavlović, "Studija za konsolidaciju pepelišta u cilju funkcionalnih radova na pepelištu – partija 1", Ugovor po Javnoj nabavci br. 896/2014 - Partija 1, ugovor zaveden kod naručioca EPS, ogranak TE KO Kostolac pod br. 253, ugovor zaveden kod pružaoca usluge, Tehnološko-metalurški fakultet, Univerzitet u Beogradu pod br. 43/1, 2015.

2016. godina

110. Mića Jovanović, JKP Obrenovac , Izrada studije analize obima i strukture deponovanog otpada na deponiji Grebača – II faza;
111. Mića Jovanović, JKP Obrenovac, Izrada idejnog rešenja zatvaranja deponije Grebača uz iskorišćenje potencijala deponijskog gasa;
112. Milica Gvozdenović, Magal 02 Raška, Ispitivanje zaštitnih svojstava magnezijuma anoda za emajlirane čelične bojler;
113. Željko Kamberović, SGS Beograd, Priprema i analiza uzoraka B i C skrap; Vrednost: 340.800,00 RSD;
114. Mića Jovanović, JKP Duboko, Izrada idejnog konceptualnog rešenja iskorišćenja potencijala deponijskog gasa JKP Regionalnog centra za upravljanje otpadom Duboko;
115. Ljubinka Rajaković, Metalac posuđe, G.Milanovac Izrada Studije o kvalitetu emajliranog posuđa za čuvanje hrane Metalac;
116. Prof. dr Ž. Kamberović (rukovodilac), G. Kokeza, Z. Anđić, M. Korać, M. Gavrilovski, J. Uljarević, N. Jovanović, M. Ranitović (članovi tima). Techno-economic analysis of revitalization of primary magnesium production in the complex "Mg Serbien", Mg Serbien, Baljevac, 2016, vrednost ugovora: 12.000 eur, broj strana: 117;
117. Saša Drmanić, Aleksandar Marinković i Nataša Tomić. Razvoj novih i poboljšanje postojećih tehnologija proizvodnje različitih formi visokoenergetskih materijala (termostabilni i

termobarični eksplozivi). Naučna i poslovno-tehnička saradnja sa kompanijom Prva Iskra Namenska a.d. Barič (br. ugovora 2587/1 od 23.11.2016);

118. Prof. dr Ž. Kamberović (odgovorni projektant), Zoran Anđić, Milorad Gavrilovski, Aleksandar Mihajlović, Milica Karanac. Idejno rešenje postrojenja za proizvodnju olovne sačme, Agroprogres, Beograd, Srbija, str. 37;
119. Dragan Marković (rukovodilac), Pavle Spasojević, Vesna Panić, Sanja Šešlija, Danka Marković, Srđan Arsić (članovi tima). Development of eco-friendly water-born polychloroprene contact adhesives” Projekat saradnje nauke i privrede finansiran od strane Inovacionog fonda Republike Srbije. Nosilac- Tetragon d.o.o, Čačak. Vrednost projekta - oko 120.000 eur (2016-2019);
120. Pavle Spasojević (rukovodilac), Pružanje stručnih usluga Apoteci Beograd od 2014-2017 (4 ugovora) ukupna vrednost ugovora oko 800.000 dinara;
121. Pavle Spasojević (rukovodilac), Pružanje stručnih usluga Lilly Drogerie, ukupna vrednost ugovora 150.000 dinara;
122. Pavle Spasojević (rukovodilac), Pružanje stručnih usluga Jugoplastic doo (3 ugovora), ukupna vrednost ugovora 200.000 RSD;
123. dr Dejan Bezbradica (rukovodilac), Katarina Banjanac. Razvoj fermentativnog postupka proizvodnje fitopatogenih bakterija za primenu u biofungicidima” - Projekat sa privredom. Naručilac: Biogenesis d.o.o., Bačka Topola; Izvođač: Inovacioni centar TMF-a, Beograd. Br. 223/1, mart. 2016; Vrednost ugovora 2.000,00 €.

2017. godina

124. Bojan Gligorijević (rukovodilac), Elaborat „SIGMATEST i mikro-tvrdoća osnovnih metala AA1050 i C10100 i njihovih bimetalnih spojeva“ – mart 2017, Naručilac: VTM Solutions, Jagodina, Izvršilac: TMF, Beograd; Katedra za metalurško inženjerstvo, Laboratorija za preradu metala u plastičnom stanju;
125. Prof. dr Ž. Kamberović (rukovodilac), dr Marija Korać, dr Milorad Gavrilovski, dr Zoran Anđić, dipl. ing. Aleksandar Mihajlović, dipl. ing. Milisav Ranitović, dipl. ecc. Nikola Jovanović (članovi tima), odovorni projektant: dipl. ing. Dimitrije Stevanović. Idejni tehnološki projekat (Projekat postrojenja za reciklažu električnog i elektronskog otpada na KP br. 1186/1, KO Višnjica). Investitor: SET Reciklaža d.o.o, broj dela projekta: ITP_IC-SET_161102015, vrednost ugovora: ukupno 19.450 € (zajedno sa Ažuriranom studijom o proceni uticaja na životnu sredinu projekta postrojenja za reciklažu elektronskog otpada (opasan otpad) na KP br. 1186 KO Višnjica, SO Palilula, autori: Prof. dr Ž. Kamberović (rukovodilac), dr ing. Marija Korać, dipl. ing.

Aleksandar Mihajlović, dipl. ing. Milisav Ranitović, dipl. ecc. Nikola Jovanović (članovi tima), naručilac: SET Reciklaža d.o.o, broj dela projekta: SU_IC-SET_161102015 od 2016. godine);

126. Prof. dr Ž. Kamberović (rukovodilac), M. Ranitović, B. Tomović, V. Nikolić (članovi tima). Nadzor nad ugradnjom opreme: Stručni nadzor i konsultantske usluge za projekat dopune tehnološkog procesa postrojenja za reciklažu električnog i elektronskog otpada, kat. Parcela br 1186/1, KO Višnjica, vrednost ugovora: 980.000 RSD;
127. Prof. dr Ž. Kamberović (rukovodilac), dr Srđan Marković, dr Marija Korać, dipl. ing. Simeon Dilber, master ing. Jelena Uljarević (članovi tima). Zahtev za izdavanje dozvole za skladištenje i tretman otpada na lokaciji operatera Mei Ta Europe doo u Bariču, vrednost ugovora: 43.000 €;
128. Prof. dr Ž. Kamberović (rukovodilac), M. Gavrilovski, M. Ranitović (članovi tima). Analiza pegavosti-poroznosti na bimetalnoj traci čelik –olovna bronza proizvođača SINTERFUSE d.o.o, vrednost ugovora: 52.850 rsd, broj strana: 12;
129. M. Ranitović (rukovodilac), B. Tomović (članovi tima). Ispitivanje uzoraka materijala Inconel 600 posude Aktivatora katalizatora v-201, vrednost ugovora: 60.000 RSD, broj strana: 5;
130. Dušan Rajić, Zoran Anđić, Marija Korać, Milisav Ranitović, Nataša Tomić, Aleksanda Mihajlović i Vladimir Aranđelović. Naziv projekta: Plan zaštite od udesa Agencije za lekove i medicinska sredstva Srbije; U period od 2011 do 2017; Rukovodilac: dr Dušan Rajić; Naručilac: Agencija za lekove i medicinska sredstva Srbije; br. Strana: 160; Vrednost ugovora: 400.000,00 RSD;
131. Mila Laušević (rukovodilac), Svetlana Grujić, Marina Radišić, Nikolina Antić, Zorica Jauković, Marina Maletić, Ljiljana Tolić, Ivana Matić Bujagić (članovi tima). Određivanje tragova odabranih lekova i pesticida u površinskim, podzemnim, otpadnim vodama i sedimentima, primenom validiranih metodama razvijenih u laboratoriji za masenu spektrometriju, u okviru projekta: „Metodologija ocene, projektovanja i održavanja izvorišta podzemnih voda u aluvijalnim sredinama u zavisnosti od stepena aerobnosti” za Institut za vodoprivredu Jaroslav Černi;
132. Dragan Marković (rukovodilac), Pavle Spasojević, Vesna Panić, Sanja Šešlija, Danka Marković, Srđan Arsić (članovi tima). Development of eco-friendly water-born polychloroprene contact adhesives” Projekat saradnje nauke i privrede finansiran od strane Inovacionog fonda Republike Srbije. Nosilac- Tetragon d.o.o, Čačak. Vrednost projekta - oko 120.000 eur (2016-2019);
133. Dragan Jovanović (rukovodilac), Pavle Spasojević, Vesna Panić, Sanja Šešlija, Radovan Jovanović, Đorđe Jovanović, Marija Stojković (članovi tima). “Development of active pharmaceutical packaging” Projekat sufinansiranja inovacije finansiran od strane Inovacionog

fonda Republike Srbije, Nosilac- Uniplast d.o.o, Čačak. Vrednost projekta - oko 430.000 eura (2017).

2018. godina

134. Dragan Marković (rukovodilac), Pavle Spasojević, Vesna Panić, Sanja Šešlija, Danka Marković, Srđan Arsić (članovi tima). Development of eco-friendly water-born polychloroprene contact adhesives” Projekat saradnje nauke i privrede finansiran od strane Inovacionog fonda Republike Srbije. Nosilac- Tetragon d.o.o, Čačak. Vrednost projekta - oko 120.000 eur (2016-2019);
135. Prof. dr Željko Kamberović (rukovodilac), D. Radovanović, M. Ranitović (članovi tima). Tehnološka proba luženja bakra iz oksidne rude bakra sa lokaliteta Čadinje 2018, vrednost ugovora: 1500 eur, broj strana: 8, Balkan Mineral Corporation d.o.o.;
136. Prof. dr Željko Kamberović, D. Radovanović, Zoran Amđić, N. Jovanović. Izrada unapređenog tehničkog rešenja za novi tehnološki postupak stabilizacije/solidifikacije opasnog mulja obrazovanog nakon tretmana otpadne vode u Topionici bakra RTB Bor, vrednost ugovora: 1500 eura, broj strana: 14, Delta Inženjering d.o.o.;
137. Prof. dr Željko Kamberović (rukovodilac), Marija Korać, Milisav Ranitović, Vesna Nikolic, Bozidar Tomovic, Nikola Jovanović. Probna ispitivanja i merenje aktivnosti katalizatora za tretman rashladnih fluida u tehnološkom procesu postrojenja za reciklažu električnog i elektronskog otpada, kat. Parcela br 1186/1, KO Višnjica, vrednost ugovora: 12.000 eur, broj strana: više svezaka, SET d.o.o., Srbija;
138. prof. dr Aca Marinković (rukovodilac projekta), Jagos Mirković, Jelena Uljarević, Milena Milosević (članovi tima) “Tehno-ekonomska analiza tehnologije proizvodnje kompozitnih materijala na bazi nezasićenih poliestarskih smola i nemetalične frakcije otpadnih štampanih ploča”;
139. Izrada Dela studije za ispitivanje materijala baklje - pregled stanja tehnike, Tekon Konsalting
140. Prof. dr Željko Kamberović (rukovodilac), Milisav Ranitović, Nemanja Živanić (članovi tima). Tehnološke probe luženja Au i Ag iz magnetitne rude gvožđa sa lokaliteta Majdani Boranja. 2018, vrednost ugovora: 2.500 eur, broj strana: 12, Metalfer d.o.o., Srbija;
141. Dragan Jovanović (Rukovodilac), Pavle Spasojević, Vesna Panić, Sanja Šešlija, Radovan Jovanović, Đorđe Jovanović, Marija Stojković (Učesnici). „Development of active pharmaceutical packaging” Projekat sufinansiranja inovacije koji je delimično finansiran sredstvima Fonda za inovacionu delatnost Republike Srbije, a delimično od Uniplast d.o.o, Čačak. Nosilac- Uniplast d.o.o, Čačak. Vrednost projekta - oko 430 000 eura (2017-2020).

7.2. Ugovoreni poslovi sa privredom na međunarodnom tržištu

2012. godina

1. Željko Kamberović Electro Recycling, Slovakia - Ispitivanje dostavljenih uzoraka granulata od prerade elektronskog otpada;
2. Željko Kamberović TIPO kotlogradnja, Prijedor Obuka za ultrazvučno ispitivanje nivo II;
3. Željko Kamberović SINTEF, Norway - Izrada uzoraka različitih aluminijumskih legura za potrebe Evropskog projekta;
4. Dragan Mitraković Rudnici Ugljevik - BIH Revizija projekta računarske mreže u delu aktivne i pasivne mrežne opreme;
5. Željko Kamberović Cleanpart, Germany - Reciklaža e-otpada (WPCBs) hidrometralurškim sredstvima;

2013. godina

6. Željko Kamberović SC RTS Welded Struct, Romania - Program ispitivanja mogućnosti primene rudne mešavine Hunedoara iz Rumunije u proizvodnji sintera u Železari Smederevo;
7. Dragan Mitraković Rudnici Ugljevik - BIH Konsultantske usluge u vezi tehničkog dela tenderske dokumentacije - nabavka IT infrastrukture za potrebe TE Ugljevik.

2014. godina

8. Željko Kamberović Minerex AG, Switzerland - Istraživanja u oblasti sinteze materijala pirometalurškim postupkom;
9. Željko Kamberović Orao, Bijeljina - Utvrđivanje vrste termozaštitnih prevlaka vrha svećice;
10. Željko Kamberović Penox, Mexico - Konsultantske usluge za potrebe Penox Mexico – usluge iz oblasti nauke;
11. Dejan Skala, China University of Geosciences, - Pilot istraživanje – heterogena biodizel proizvodnja;
12. Intelligent Scaffolds as a Tool for Advanced Tissue Regeneration (Trilateral project Serbia-Slovenia-Switzerland, SCOPES-Swiss National Science Foundation) Rukovodilac: prof. dr Simonida Tomić; Članovi tima: Dr Sandra Hofman, Dr Marija Vukomanović, Dr Jovanka Filipović, Dr Jovana Vuković, Dr Marija Babić, Vuk Filipović. Broj projekta: IZ73ZO_152327/1 (sept 2014-sept 2017).

2015. godina

13. Ž.Kamberović Fregat Ltd, Russia - Izrada tehničkog rešenja tretmana otpadne olovne šljake bez i sa predtretmanom;
14. Ž.Kamberović Geomet, BiH - Tehničko-tehnološka rešenja modifikacije rada rotacione peći u cilju prerade karbonatnih primarnih sirovina olova u okviru kompleksa Geomet, Olovo, Bosna i Hercegovina.

2016. godina

15. Prof. dr Ž. Kamberović (rukovodilac), Dimitrije Stevanović, Milica Karanac (članovi tima). Study of landfill gas extraction potential in Serbia on selected landfills, Madei Taas Ltd, Israel, pp. 41, vrednost ugovora: 2.250,00 evra;
16. Prof. dr Ž. Kamberović (rukovodilac), M. Korać, M. Gavrilovski, A. Marinković, M. Ranitović, N. Jovanović, A. Mihjalović, N. Gajić (članovi tima). Spectra Media d.o.o., Hrvatska, Valorizacija metala iz različitih frakcija mehanički tretiranog elektronskog otpada – Faza 1, 2016, vrednost ugovora: 13.000 eur, broj strana: više svezaka.

2017. godina

17. Mag. teh. nauka Aleksandar Vasić (Rukovodilac), dr Željko Kamberović, master ing. Jelena Uljarević (članovi tima). Ekspertiza na nalaz sudskog veštaka metalurške struke u sudskom sporu koji se vodi na osnovnom sudu u Zenici, vrednost ugovora: 4.800 €;
18. Prof. dr Ž. Kamberović (rukovodilac), M. Korać, M. Gavrilovski, A. Marinković, M. Ranitović, N. Jovanović, B. Tomović, A. Mihjalović, N. Gajić, J. Djokić (članovi tima). Spectra Media d.o.o., Hrvatska, Valorizacija metala iz različitih frakcija mehanički tretiranog elektronskog otpada – Faza 2, 2017, vrednost ugovora: 27.800 eur, broj strana: više svezaka;
19. M. Ranitović (rukovodilac), N. Jovanović (članovi tima). RWTH Aachen, Germany, Laboratory testing for treatment of Ni bearing materials in Rotary Kiln process, rukovodilac: vrednost ugovora: 2.880 eur;
20. M. Ranitović (rukovodilac), N. Jovanović, J. Đokić (članovi tima). BBM-Operta GmbH, vrednost ugovora: 3.600 eur, broj strana: 12.

2018. godina

21. Zorica Knežević-Jugović, Jelena Jovanović, Nataša Šekuljica, US Project, U. Belgrade/Skretting ARC;
22. Stevan Dimitrijević (rukovodilac), prof. Ž. Kamberović, M. Ranitović (članovi tima). Chimet S.p.A, Italija, Improving the silver powder production in Chimet Company – Faza 1, 2018, vrednost ugovora: 4.000 eur, broj strana: više svezaka;
23. Prof. dr Željko Kamberović (rukovodilac), Marija Korać, Milorad Gavrilovski, Milisav Ranitović, Nikola Jovanović, Stevan Dimitrijevic, Natasa Gajić, Jovana Djokić (članovi tima). Spectra Media d.o.o., Hrvatska, Valorizacija metala iz različitih frakcija mehanički tretiranog elektronskog otpada – Faza 3, 2018, vrednost ugovora: 24.700 eur, broj strana: više svezaka;
24. Izvođenje eksperimenta luženja rude sa lokaliteta Bakovići – L1, 2018, vrednost ugovora: 3.600 eur, broj strana: 15, Prof. dr Željko Kamberović (rukovodilac), Milisav Ranitović, Nikola Jovanović, Jovana Djokić (članovi tima). BBM d.o.o., Bosna i Hercegovina

8. Inovacioni i međunarodni projekti

Pored saradnje sa privredom na IC TMF-u realizovana su ili su u procesu realizacije 24 inovaciona projekata i preko 50 međunarodnih projekata. U nastavku je prikazan spisak inovacionih i međunarodnih projekata.

8.1. Inovacioni projekti

1. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Modularni sistem za dobijanje obnovljive energije iz otpadnih voda i otpada u industriji piva“, rukovodilac dr Aleksandar Marinković, članovi tima: Branko Bugarski, Kata Trifković, Bojana Isailović, Verica Manojlović, Viktor Nedović, Srđan Uzelac, Mirko Komatina, Marko rakin, Milana Zarić. Realizator: IHIS-Naučno-tehnološki park Zemun A.D. 451-03-2372-PITIP1/124, 451-03-2372/2012-14/8;
2. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** “Salviva®-humana veštačka pljuvačka, tehnološke mogućnosti i klinička primena”; rukovodilac dr Dragana Maca Kastratović, članovi tima: Realizator: Inovacioni centar Tehnolosko-metalurskog fakulteta u Beogradu, d.o.o.

3. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Proizvodnja novih dijetetskih formulacija na bazi prirodnih proteina sa antioksidativnim i antitumorskim dejstvom“;
4. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Automatski uređaj za tretman voda u hidromasažnim kadama i bazenima sa višestepenim reversnimstrujnim režimima i pH regulacijom“;
5. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Razvoj tehnologije proizvodnje profesionalnih dermo-kozmetičkih preparata – izrada vizuelnogidentiteta kolekcije“;
6. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Razvoj novih tehnologija reciklaže otpadnog poli(metilmetakrilata)“;
7. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Uklanjanje amonijaka iz podzemnih voda i omekšavanje sirove vode bogate magnezijumom pomoću prirodnih zeolita“ Nevenka Rajić;
8. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Razvoj vodonepropusnog materijala vrhunskih osobina za izgradnju deponija otpada na bazi domaćih sirovina“;
9. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Razvoj biotehnološkog postupka dobijanja egzopolisaharida tipa dekstrana pomoću visokoprosinostnih prirodnih izolata bakterija mlečne kiseline“ – tehnički poslovi za potrebe projekta;
10. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Rekonstrukcija grejnih sistema za korišćenje geotermalne energije“;
11. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2012-2013)** „Infrastrukturno opremanje laboratorijskog istraživačkog prostora“;
12. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Razvoj novog tehnološkog postupka za proizvodnju rakije od maline“;
13. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Kapsule zdravlja u ledenom čaju“, 451-03-2802/2013-16/178;
14. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Novi proizvod i za tretman rana na bazi hidrogelova alginata i polivinil-alkohola sa nanočesticama srebra“;

15. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Proizvodnja katalizatora iz ljuske kokošijeg jajeta i njegova primena na dobijanje biodizela iz recikliranih biljnih ulja“;
16. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2014-2015)** „Infrastrukturno opremanje laboratorije za tehnologiju prečišćavanja otpadnih voda“;
17. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** „Tehnologije proizvodnje kompozitnih materijala baziranih na nezasićenim poliestarskim molama/elastomerima i nemetalnoj frakciji otpadnih štampanih ploča sa dodatkom aditiva za otpornost prema gorenju“.Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd;
18. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** “Kardio- protekt, mikrokapsule sa aronijom u medu”. Nosilac realizacije inovacionog projekta – podnosilac prijave IHIS Tehno eksperts d.o.o., Beograd; rukovodilac dr Branko Bigarski, članovi tima: Bojana Balanč, Kata Trifković, Aleksandra Jovanović, Radoslav Cerović, Verica Đorđević, Zorica Knežević-Jugović, Katarina Šavikin, Nada Čujić, Jelena Živković, Teodora Janković, Gordana Zdunić. Realizator: IHIS Tehno eksperts d.o.o. 391-00-16/2017-16/31.
19. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** “Novi biotehnoški postupci za proizvodnju biopreparata na bazi vermikomposta”. Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd; rukovodilac: dr Radoslav Cerović, članovi tima: Bojana Balanč, Kata Trifković.....Realizator: Inovacioni centar Tehnološko-metalurskog fakulteta u Beogradu, d.o.o.
20. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** „LAVGLU-Inovativni postupci proizvodnje funkcionalnih proizvoda na bazi žita obogaćenih nealergenim proteinima i bioaktivnim peptidima“. Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd;
21. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** „Razvoj tehnologije i izgradnja laboratorijskog uređaja za granulaciju praškastih preparata“. Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd;
22. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)** „Integralni postupak za dobijanje tehnoloških metala iz megnetične frakcije e-otpada,„. Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd;

23. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)**
„Integritet opreme pod pritiskom pri istovremenom delovanju zamarajućeg opterećenja i temperature”, Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd
24. Inovacioni projekat Ministarstva prosvete, nauke i tehnološkog razvoja **(2017-2018)**
„Tehnologije proizvodnje kompozitnih materijala baziranih na nezasićenim poliestarskim molama/elastomerima i nemetalnoj frakciji otpadnih štampanih ploča sa dodatkom aditiva za otpornost prema gorenju“. Nosilac realizacije inovacionog projekta – podnosilac prijave - Inovacioni centar Tehnološko metaluški fakultet, Beograd.

8.2. Ostali projekti u oblasti inovacija

1. IISP – IPA projekat - Program integrisane podrške inovacijama, komponenta projekta obuka tehnoloških brokera. Rezultat: sertifikacija 2 tehnološka brokera IC TMF;
2. Tehnološko brokerstvo i mapiranje inovacionog potencijala TMF-a i IC TMF-a
Po Odluci Direktora IC TMF-a br. 12/22, od 14.11.2013. god;
3. Mapiranje naučnih i inovacionih rezultata zaposlenih IC TMF 2009-2016 – IntMap2016. Prema Odluci Direktora IC TMF a br. 37/22 15/ od 23.3.2016;
4. Pavle Spasojević (rukovodilac), Vesna Panić, Sanja Šešlija, Radovan Jovanović, Đorđe Jovanović (članovi tima). Razvoj inovativne antimikrobne ambalaže za pakovanje farmaceutskih i kozmetičkih proizvoda”, Evidencioni br. 451-03-2802/2013-16/84, Inovacioni projekat. Nosilac- Uniplast d.o.o, Preljina, Čačak. Vrednost projekta - oko 4.000 000 dinara (2016);
5. Dr Vesna Nikolić (rukovodilac), dr Milisav Ranitović, dr Milorad Gavrilovski, dipl. inž. master Jelena Uljarević (članovi tima). "Katalizator za dehalogenizaciju freona – probna serija" u saradnji sa Kancelarijom za transfer tehnologije Fonda za inovacionu delatnost Srbije u okviru Programa tranfera tehnologije (TTF). Realizacija projekta je u toku od novembra 2017. godine;
6. Mapiranje naučnih i inovacionih rezultata zaposlenih IC TMF 2016-2018 – IntMap2017. Prema Odluci Direktora IC TMF a br. 17/8 od 14.02.2018;
7. Dr Bojan Glogorijević (rukovodilac). "New forged-quality Al/Cu bimetallic electrical connectors" Projekat VEMID doo iz Jagodine, finansiran od strane Fonda za Inovacionu delatnost Srbije u okviru programske šeme "MINI GRANTS" (2018);

8. Mapiranje naučnih i inovacionih rezultata zaposlenih IC TMF 2016-2018 – IntMap2018. Prema Odluci Direktora IC TMF a br. 12/2 od 16.01.2019;
9. Projekat u okviru Programa TTF Fonda za inovacionu delatnost, „Antimikrobno aktivno kozmetičko i farmaceutsko pakovanje“. Broj projekta 1063, Beograd (2018 godina). Učesnici: Pavle Spasojević, Vesna Panić, Sanja Šešlija;
10. Inovacioni vaučer ID176 Inovacioni projekat EBRD Studija o efikasnosti procesa automatskog daljinskog tretmana zauljenog tečnog opasnog otpada u pilot postrojenju;
11. “Proizvodnja pametnih sistema pešačkih prelaza sa poboljšanim fizičkim i mehaničkim svojstvima“. Inovacioni projekat IF. MINI GRANT/2018;
12. “New Forged-Quality Al/Cu Bimetallic Electrical Connectors“. Inovacioni projekat IF. MINI GRANT/2018;
13. “Preliminarno ispitivanje uticaja procednih voda deponije 'Vinča' na životnu sredinu“. Projekat Ministarstva zaštite životne sredine, Zeleni fond rukovodilac: prof. dr Mirjana Ristić;
14. “Catalyst for Freon dehalogenation – test series“. Nosilac realizacije projekta - Inovacioni centar Tehnološko metalurški fakultet, Beograd. Inovacioni projekat IF. TTF Grant agreement 1062;
15. “Novel eco-friendly method for construction materials adhesive production based on modified starch“. Inovacioni projekat EBRD. Zeleni inovacioni vaučer EBRD.

8.3. Međunarodni projekti

1. The Norwegian Programme in Higher Education, Research and Development in the Western Balkans “The use of natural zeolite (clinoptilolite) for treatment of farm slurry and as a fertilizer carrier“ The Agriculture Sector (HERD/Agriculture) (2012-2014), *Učesnici:* Univerzitet u Beogradu (Poljoprivredni fakultet i Tehnološko-metalurški fakultet), Univerzitet u Sarajevu (Poljoprivredno-prehrambeni fakultet) i Norwegian University of Life Science (Department of Plant and Environmental Sciences);
2. Projekat Hrvatske zaklade za znanost „Natural habitat of clinically important *Acinetobacter baumannii*“, (2015–2019). Rukovodilac prof. Jasna Hrenović.
<https://www.pmf.unizg.hr/naturaci/en;>
3. FP7-REGPOT 2009-1 Project Nanotech FTM, Ev.br. n°245916 Učesnik projekta: Kata Trifković (18.11.-23.12.2012.) saradnja sa Poljoprivrednim univerzitetom u Atini, Grčka;

4. "A close look of N-doped TiO₂ nanotubes sensitized with CdS quantum dots for application in solar cells" finansiranog od strane Central European Research Infrastructure Consortium (CERIC-ERIC) za saradnju sa Materials Science Beamline na Elettra -Synchrotron, Trst, Italija i Surface Physics Laboratory, Charles University, Prag, Češka republika. Septembar-decembar 2015. Rukovodilac projekta dr Anđelike Bjelajac, br. 20152050;
5. Erasmus+ projekat između Republike Srbije i Grčke (2015-2017), Higher Education Student and Staff Mobility, KA107 International Mobility;
6. Project No 10662: "Increased volume of Norwegian grown plums for the fresh fruit market". Projekt se realizuje između Norveškog Instituta za Bioekonomiju (NIBIO) i IC TMF-a sa trajanjem od četiri godine (2017-2020);
7. "Recovery and harmless treatment of hazardous jarosite", „One Belt One Road“ strategy of People’s Republic of China, No. KY201502004, 2016-2017;
8. "Sn diffusion from FTO to TiO₂ nanotubes film" finansiranog od strane Central European Research Infrastructure Consortium (CERIC-ERIC) za saradnju sa Institutom Ruđer Bošković, Zagreb, Hrvatska i Surface Physics Laboratory, Charles University, Prag, Češka republika. Januar-jun 2018. Rukovodilac projekta: dr Anđelike Bjelajac 20177018;
9. Zajednički istraživačko razvojni projekat između Republike Srbije i Narodne Republike Kine Naziv projekta: „Razvoj novih bioloških postupaka za dobijanje proizvoda sa dodatnom vrednošću na agro-industrijskom otpadu“. Evidencioni broj projekta: I-1 (ugovor još nije potpisan sa Ministarstvom). Korisnik: Industrija skroba Jabuka d.o.o. Rukovodilac projekta: Dr Ljiljana Mojović, redovni profesor Tehnološko-metalurški fakultet. Vrednost projekta: 200.000 USD. Učesnici: Tehnološko-metalurški fakultet, Univerzitet u Beogradu; Shanghai Advanced Institute, Chinese Academy of Sciences Research; Članovi tima: Ljiljana Mojović, Aleksandra Djukić-Vuković, Dragana Mladenović, Zorica Knežević-Jugović, Nevena Lukovic, Bojan Petrovic, Baoguo Zhang, Jian Hao, Weizhi Yan, Dong Wei, Zhongxi Zhang. Vreme realizacije: 2017-2019.
10. „Mikrokapsulacija i ultrazvučno dispergovanje ekstrakata ljekovitih biljaka za antimikrobnu obradu tekstila“, Koordinator projekta prof. dr Dragana Grujić, čiji je nosilac Tehnološki fakultet Banja Luka Univerziteta u Banjoj Luci, a koji se sufinansira od strane Ministarstva nauke i tehnologije Republike Srpske (2018-...) (Jovana Milanović);
11. "A close look of N-doped TiO₂ nanotubes sensitized with CdS quantum dots for application in solar cells" finansiran od strane Central European Research Infrastructure Consortium (CERIC-ERIC);

12. Istraživačko-razvojni projekat sa Republikom Kinom (2018-2020): „Development of new biological processes in the value added utilization of agro-industrial waste“, rukovodilac projekta sa srpske strane: prof. dr Ljiljana Mojović (Dragana Mladenović);
13. "New Norwegian pear cultivars - Increased volume and consumers preference of new Norwegian breded cultivars". Project No 64005. Projekt se realizuje između Norveškog Instituta za Bioekonomiju (NIBIO) i Poljoprivrednog fakulteta u Zemunu u trajanju od dve godine (2017-2018). (Radosav Cerović);
14. SMARTCHAIN Towards innovation-driven and smart solutions in short food supply chains. Call: H2020-SFS-2016-2017 TOPIC: SFS-34-2017 Innovative agri-food chains: unlocking the potential for competitiveness and sustainability, HORIZON 2020, Pillar: Societal Challenges. Projekat odobren za finansiranje u decembru 2017. godine i traje tri godine (2018-2020). Grant agreement No 773785. (Radosav Cerović);
15. "NOx remediation in town and city town and city". School of Chemical Engineering, Aalto University, Finland; Innovation Center of the Faculty of Technology and Metallurgy, Serbia; Omya Switzerland;
16. Erasmus+ TUTORIAL Project: "Strengthening Network for Education, Research and Innovation in Environmental Health in Asia", (S. Mandić-Rajčević);

8.3.1. COST Akcije

1. Projekat evropske saradnje u nauci i tehnologiji COST action FA1001 (**2010-2014**) "The application of innovative fundamental food-structure-property relationships to the design of foods for health, wellness and pleasure". Rukovodilac: Prof Laura Piazza Članovi upravnog odbora i zamenici iz RS: Viktor Nedović, Verica Đorđević, Bojana Balanč, Kata Trifković, Ana Kalušević. http://www.cost.eu/COST_Actions/fa/FA1001;
2. Projekat evropske saradnje u nauci i tehnologiji COST action TD1306 (**2014-2018**) „New Frontiers of Peer Review (PEERE)“;
3. Projekat evropske saradnje u nauci i tehnologiji COST Action MP1301 (**2014-2018**) „New generation biomimetic and customized implants for bone engineering (NEWGEN)“.
4. Projekat evropske saradnje u nauci i tehnologiji COST Action TD1305 (**2014-2018**) „Improved Protection of Medical Devices Against Infection (IPROMEDIA)“;
5. Projekat evropske saradnje u nauci i tehnologiji COST Action TD1403 „Big Data Era in Sky and Earth Observation“; Start of Action - 13/01/2015 End of Action - 12/01/2019;

6. Projekat evropske saradnje u nauci i tehnologiji COST Action COST CM1407 «Challenging organic syntheses inspired by nature- from natural products chemistry to drug discovery» (http://www.cost.eu/COST_Actions/cmst/CM1407) 2017;
7. Projekat evropske saradnje u nauci i tehnologiji COST Action COST FP1306 (LIGNOVAL) „Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies”, rukovodilac projekta sa srpske strane: prof. dr Nevenka Rajić (Jelena Pavlović);
8. Projekat evropske saradnje u nauci i tehnologiji COST action CA18139 "GEnomics of MusculoSkeletal traits TranslatiOnal Network (GEMSTONE)" (S. Mandić-Rajčević);
9. Projekat evropske saradnje u nauci i tehnologiji COST action MP1407 **(2014-2018)** “Electrochemical processing methodologies and corrosion protection for device and systems miniaturization (e-MINDS)”;
10. Projekat evropske saradnje u nauci i tehnologiji COST action TD1403 **(2014-2018)** “Big Data Era in Sky and Earth Observations”

8.3.2. EUREKA projekti

1. Eureka projekat E!4141 “ECOSAFETY: Measures for Providing Quality and Safety in the Food Chain” **(2008-2010)** (evidencioni broj kod MNTR R Srbije 404-02-00003/2008-01/01);
2. Eureka projekat E!4208 „Natural zeolites in water quality system“ **(2008-2011)** <http://www.eurekanetwork.org/project/id/4208>;
3. Eureka projekat E!6749 „Biomimetika Biomimetic bioreactor systems for biomedical applications“ **(2012-2014)**; 14 učesnika, rukovodilac B. Obradović;
4. Eureka projekat E!8029 „Optimizacija energetskog bilansa složenih Sistema” **(2012-2015)**, Sustainable Energy Evaluation, Documentation and Optimization – SEEDO; Učesnici: Mašinski fakultet Univerziteta u Beogradu, Inovacioni centar Mašinskog fakulteta u Beogradu, Tehnološko-metalurški fakultet Univerziteta u Beogradu, Quality Management Software a.s., Oslo, Norway, Bikan a.s., Trondheim, Norway, Bay Zoltán Közhasznú Nonprofit Kft. Rukovodilac projekta: Prof. dr Aleksandar Sedmak, Mašinski fakultet Univerziteta u Beogradu;
5. Eureka projekat E!6750 „ENZEGG Development of enzyme processes for production of egg white protein hydrolysates“; Učesnici: Inovacioni centar Tehnološko-metalurškog fakulteta Univerziteta u Beogradu, Emona-Nutrion Research & Development Department <http://www.eurekanetwork.org/project/id/6750>; Start date: 01-09-2011; Project Duration: 40 months

6. Eureka projekat E!9936 "Design of novel enzyme-based technologies for structuring and processing of soy proteins";
7. Eureka projekat E!9992 "Processing technology of AA6026 extrusions and tailoring the properties using a single step or secondary aging procedures (acronym: EcoExtrusions)". Rukovodilac projekta: Prof. dr Endre Romhanji;
8. Eureka projekat E!4141 "ECOSAFETY: Measures for Providing Quality and Safety in the Food Chain" (2008-2010) (evidencioni broj kod MNTR R Srbije 404-02-00003/2008-01/01);
9. EUREKA projekat E!9936 – SOYZYME "Design of Novel Enzyme-Based Technologies for Structuring and Processing of Soy Proteins (SOYZYME)" (2017-2020); rukovodilac prof. Zorica Knežević-Jugović;

8.3.3. Bilateralni projekti

1. Međunarodni projekat bilateralne saradnje Srbija-Španija (2010-2012) "Interactive biopolymer coated textiles using advanced bio-physical tools". Rukovodilac prof. dr Petar Jovancic, članovi tima: Maja Radetic, Darka Mihilovic i Vesna Lazic;
2. Međunarodni projekat bilateralne saradnje Srbija-Slovenija (2011-2012) "New micro-carrier systems for controlled drug delivery"; Rukovodilac: dr Branko Bugarski Članovi tima: Viktor Nedović, Verica Manojlović, Radoslava Stojanović, Steva Lević, Bojana Isailović;
3. Međunarodni projekat bilateralne saradnje Srbija-Hrvatska (2011-2012) „Dvojna funkcionalnost prirodnog klinoptilolita u preradi otpadnih voda: antibakterijska aktivnost i svojstvo nosača u bisorpciji“. Rukovodilac projekta sa srpske strane: prof. dr. Nevenka Rajić;
4. Međunarodni projekat bilateralne saradnje Srbija-Portugal (2012-2013) "Stabilization of natural bioactive compounds: study of encapsulation techniques and release study"; Rukovodilac: dr Manojlović Verica Članovi tima: Branko Bugarski, Steva Lević, Bojana Isailović, Ana Kalušević, Ivana Kostić;
5. Međunarodni projekat bilateralne saradnje Srbija-Slovenija (2012-2013) „Hemoglobin iz obnovljivih izvora kao osnov za preparat henskog gvožđa za prevenciju i terapiju anemije kod domaćih životinja: optimizacija procesa izolovanja i prečišćavanja hemoglobina“; Rukovodilac dr Vesna Ilić, Članovi tima: Branko Bugarski, Verica Manojlović, Viktor Nedović, Ivana Kostić, Bojana Isailović, Radoslava Stojanović;
6. Međunarodni projekat bilateralne saradnje Srbija-Slovenija (2014-2015) „Dobijanje antimikrobnih vlakana permanentnim vezivanjem polisaharida na oksidisana celulozna vlakna“. Rukovodioci: dr Mirjana Kostić i dr L. Fras Zemljič; članovi tima Slo Univerzitet u Mariboru: L.Fras Zemljic, Zdenka Persin, Tijana Ristic. Članovi tima SRB TMF: Mkostic, J Milanovic, A Kramar Ev.br Projekta 451-03-3095/2014-09/25;

7. Međunarodni projekat bilateralne saradnje Srbija-Hrvatska **(2016-2017)** "Povećanje stabilnosti i bioraspoloživosti aktivnih jedinjenja izolovanih iz biljaka primenom različitih sistema za njihovu isporuku u organizmu i matematičko modelovanje ponašanja dobijenih preparata u in vitro simulaciji gastrointestinalnog sistema" ; Rukovodilac dr Ivana Kostić
Članovi tima: Kata Trifković, Bojana Balanč , Ana Kalušević, Viktor Nedović, Branko Bugarski;
8. Međunarodni projekat bilateralne saradnje Srbija-Hrvatska **(2016-2017)** "Razvoj mikroinkapsuliranih sistema i jestivih filmova sa bioaktivnim komponentama za primenu u proizvodnji i pakovanju funkcionalnih prehrambenih proizvoda"; Rukovodilac dr Verica Đorđević
Članovi tima: Kata Trifković, Ana Salević, Ana Kalušević, Branko Bugarski, Viktor Nedović;
9. Međunarodni projekat bilateralne saradnje Srbija-Francuska, «Hubert Curien Partnership» (PHC), Programme «Pavle Savić» **(2016-2017)** „Intelligent eco-nanomaterials and nanocomposites” Br. Projekta 451-03-39/2016/09/13, 2016/17; IZ73ZO_152327/1, Rukovodioci projekta: Dr Vesna Rakić i Dr Georgeta Postole; Članovi projektnog tima: Dr Vesna Rakić, Dr Vladislav Rac, Dr Danijela Brković, Dr Nina Obradović, Dr Vladimir Pavlović, Dr Ljiljana Damjanović, Dr Vera Pavlović, Dr Darko Kosanović, Dr Aleksandar Marinković, Dr Jelena Rusmirović, Dr Suzana Filipović, Dr Georgeta Postole, Dr Aline Aurooux;
10. Međunarodni projekat bilateralne saradnje Srbija-Hrvatska **(2016-2017)** „Sinteza i fotokatalitička svojstva nanostrukturnih materijala na bazi TiO₂”;
11. Međunarodni projekat bilateralne saradnje Srbija-Slovenija **(2016-2017)** „Biorazgradivost tekstilnih materijala impregniranih nanočesticama srebra i titan-dioksida“. Rukovodilac projekta prof. dr Maja Radetic, članovi tima: Darka Markovic, Vesna Lazic, Marija Radoicic i Zoran Saponjic.;
12. Međunarodni projekat bilateralne saradnje Srbija-Slovenija **(2016-2017)** “Lipozomi obloženi biopolimerima kao novi sistemi za dostavu prirodnih fenolnih komponenata”; Rukovodilac: dr Bojana Balanč; Članovi tima: Viktor Nedović, Verica Đorđević, Katarina Šavikin, Ivana Kostić, Aleksandra Jovanović;
13. Međunarodni projekat bilateralne saradnje Srbija-Italija **(2016-2018)** “Mikroinkapsulirani ekstrakti šafrana kao inovativni sastojci zdrave i funkcionalne hrane”; Rukovodilac: dr Verica Đorđević
Članovi tima: Kata Trifković, Ana Kalušević, Bojana Balanč, Branko Bugarski, Viktor Nedović;
14. Međunarodni projekat bilateralne saradnje Srbija-Italija **(2016-2018)** “Razvoj i unapređenje filmova na bazi polisaharida namenjenih za pakovanje namirnica”, br. 451-03-01231/2015-09/5, finansiran od Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije i

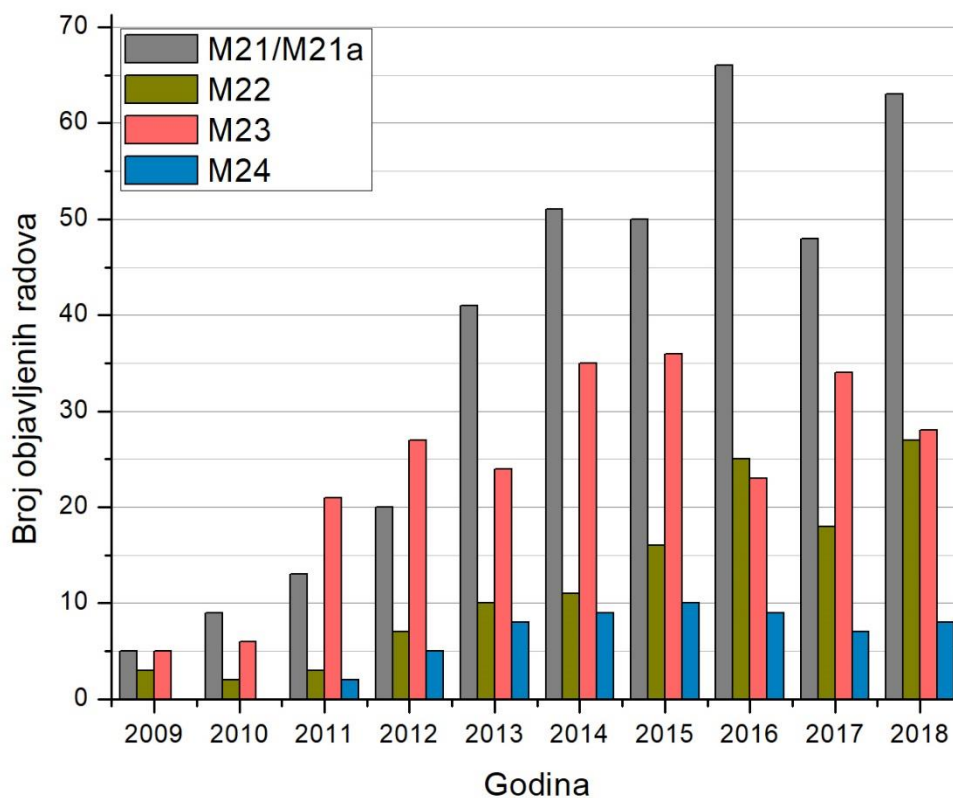
Ministarstva spoljnih poslova Italije; članovi tima: Dr Melina Kalagasidis Krusic, Dr Marija Lucic Skoric, Sanja Seslija.

15. Međunarodni projekat bilateralne saradnje Srbija-Nemačka (2017-2018) „Integrirana ekstrakcija pulsnim električnim poljem i mlečno-kiselinska fermentacija za proizvodnju ekstrakata mikroalgi obogaćenih probioticima (PEF4AlgBiotics)“ Evidencioni broj projekta: 451-03-01413/2016-09/5. Rukovodilac projekta: Dr Aleksandra Djukić-Vuković, naučni saradnik Tehnološko-metalurški fakultet, Članovi tima: Aleksandra Djukić-Vuković, Ljiljana Mojović, Dragana Mladenović, Andrea Stefanović, Jelena Jovanović, Christian Gusbeth, Wolfgang Frey, Martin Hochberg. Učesnici: Tehnološko-metalurški fakultet, Univerzitet u Beogradu; The Institute for Pulsed Power and Microwave Technology, Karlsruhe Institute of Technology, Germany;
16. Međunarodni projekat bilateralne saradnje Srbija-Slovačka (2017-2018) „Zeolite-based adsorbents for environmental remediation“, rukovodilac projekta sa srpske strane: prof. dr Nevenka Rajić;
17. Međunarodni projekat bilateralne saradnje Srbija-Francuska PHC Pavle Savic (2018-2019) „Novel smart silica and organosilica nanoarchitectures for imaging and drug delivery“. Evidencioni broj projekta: 451-03-01963/2017-09/05;
18. Međunarodni projekat bilateralne saradnje Srbija-Slovačka (2017-2018): „Zeolite-based adsorbents for environmental remediation“, rukovodilac projekta sa srpske strane: prof. dr Nevenka Rajić (Jelena Dikić i Jelena Pavlović);
19. Međunarodni projekat bilateralne saradnje Srbija-Slovenija (2018-2019): „Funkcionalna odeća na bazi celuloze za unapređenje zdravlja i komfora odeće za nepokretne ljude“, rukovodilac projekta sa srpske strane: dr Ana Kramar (Mateja Korica);
20. Međunarodni projekat bilateralne saradnje Italija-Srbija, br. 451-03-01231/2015-09/5, “Razvoj i unapređenje filmova na bazi polisaharida namenjenih za pakovanje namirnica”, finansiran od Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije i Ministarstva spoljnih poslova Italije;
21. Međunarodni projekat bilateralne saradnje Srbije i Nemačke (2017-2018): „Integrated pulsed electric field extraction and lactic acid bacteria fermentation for the production of microalgal extracts fortified with probiotics (PEF4AlgBiotics)“, rukovodilac projekta sa srpske strane: as. dr Aleksandra Đukić-Vuković (Dragana Mladenović);
22. Međunarodni projekat bilateralne saradnje Srbije i Slovenije (2018-2019): „Electroporation of lactic acid bacteria-effects on *in vitro* probiotic characteristics“, rukovodilac projekta sa srpske strane: as. dr Aleksandra Đukić-Vuković (Dragana Mladenović);

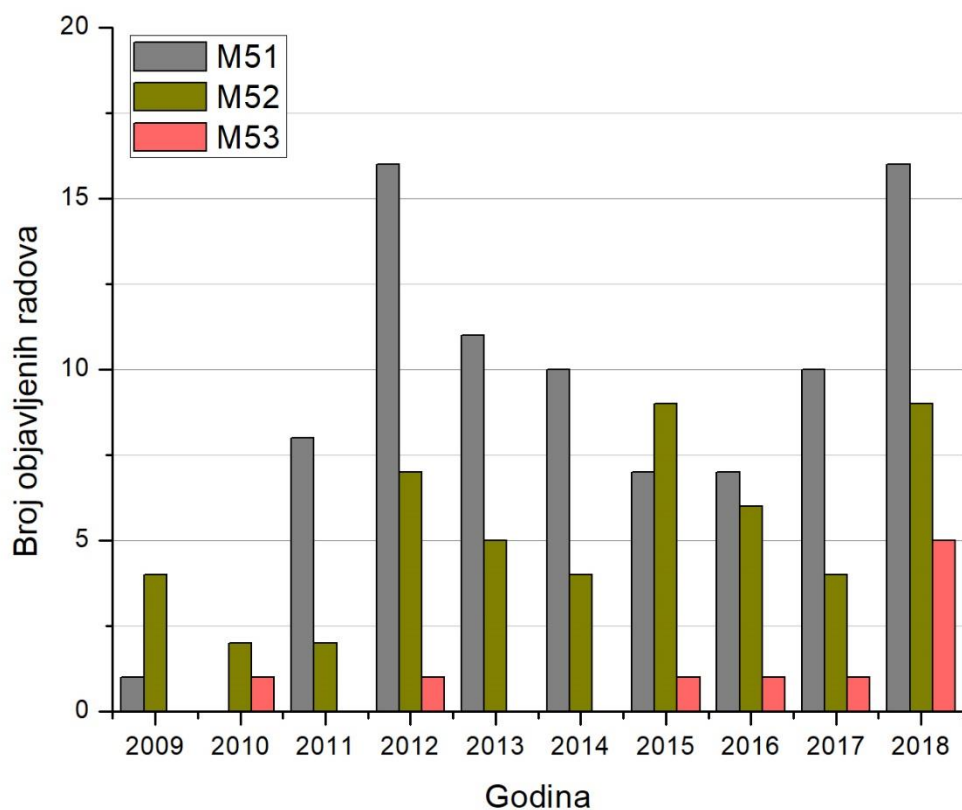
23. Međunarodni projekat bilateralne saradnje Srbije i Francuske (2018-2019): "Novel smart silica and organosilica nanoarchitectures for imaging and drug delivery"/"Nove inteligentne silikatne i organosilikatne nanostrukture za dijagnostiku i isporuku lekova" Bilateral Project Serbia-France, PHC Pavle Savic 2018-2019 (Evidencioni broj projekta: 451-03-01963/2017-09/05).

PRILOG

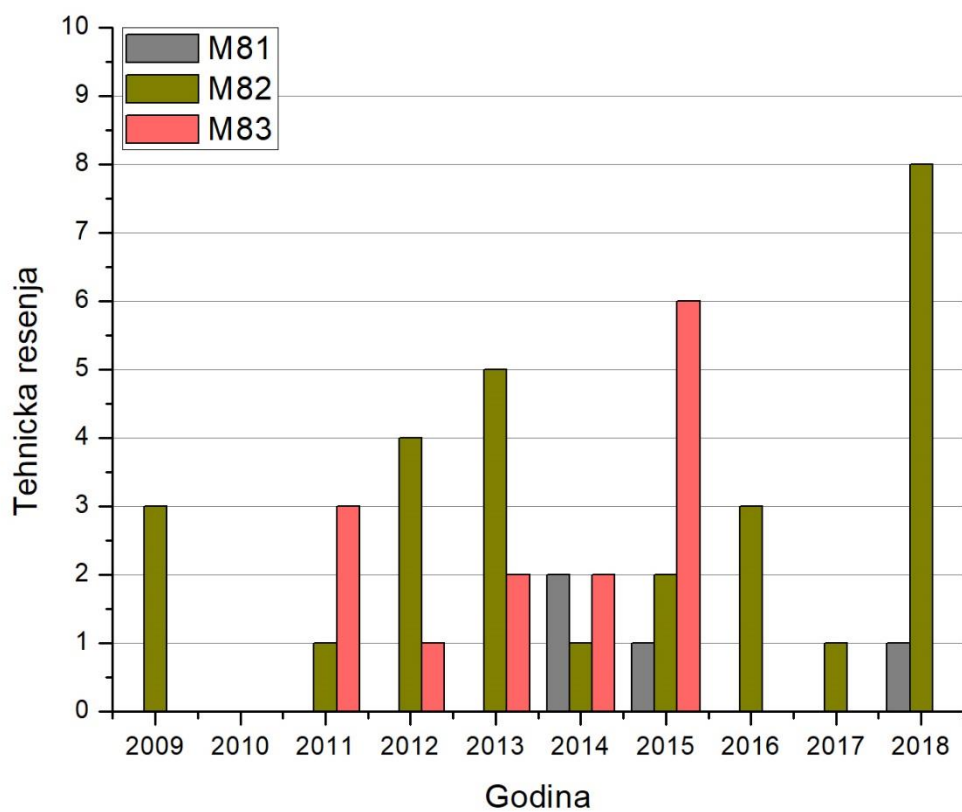
Grafički prikaz naučno-istraživačkih rezultata postignutih u periodu od kraja 2009. do kraja 2018. godine. Prikazani su rezultati iz kategorija M20, M50, M80, M90, komercijalni projekti sa privredom koji su realizovani ili su u toku realizacije kao i inovacioni i međunarodni projekti koji su realizovani ili su u toku realizacije.



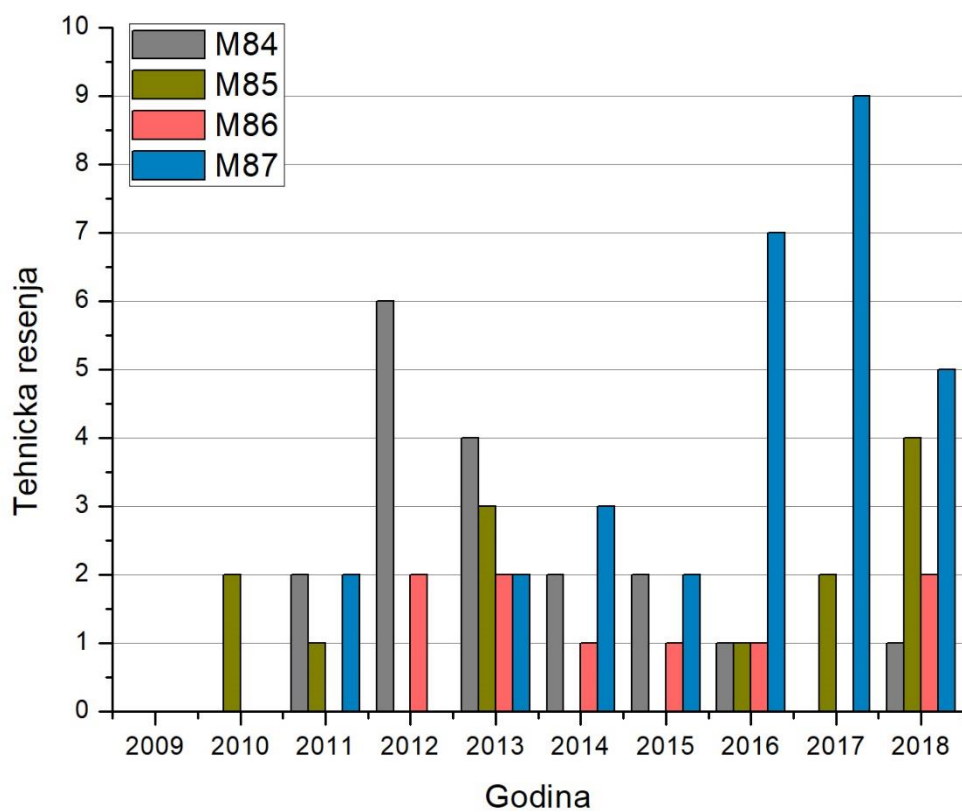
Slika 1. Radovi objavljeni u naučnim časopisima međunarodnog značaja M20 (M21a - Radovi objavljeni u međunarodnim časopisima izuzetnih vrednosti; M21 - Radovi objavljeni u vrhunskim međunarodnim časopisima; M22 - Radovi objavljeni u istaknutim međunarodnim časopisima; M23 - Radovi objavljeni u međunarodnim časopisima; M24 - Radovi objavljeni u nacionalnim časopisima međunarodnog značaja)



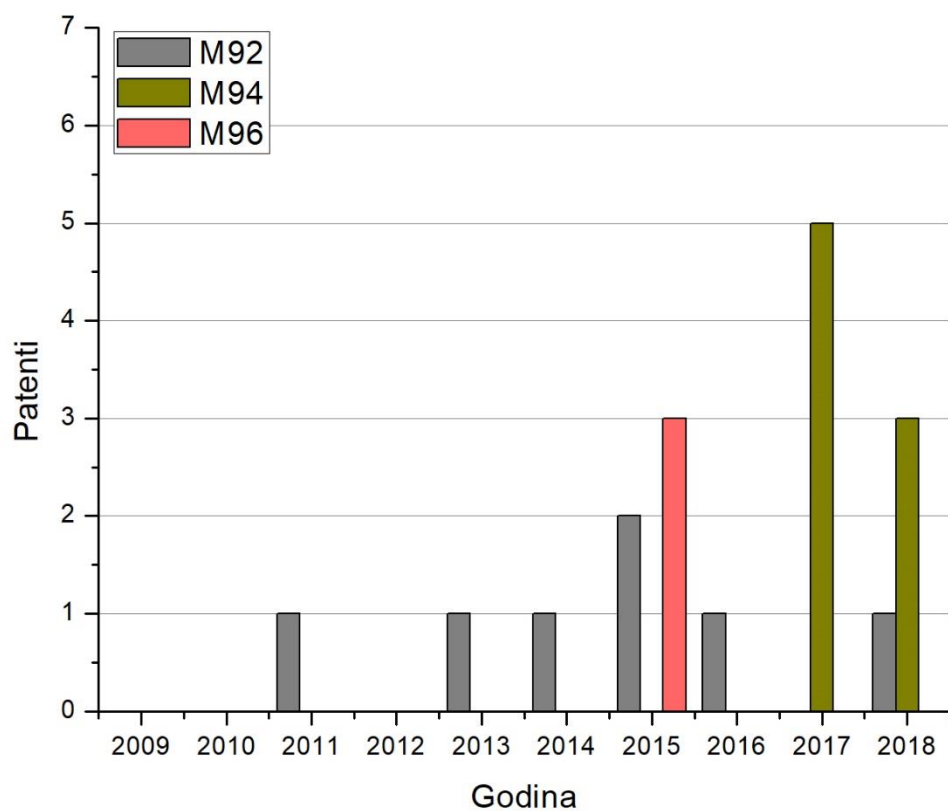
Slika 2. Radovi objavljeni u časopisima nacionalnog značaja M50 (M51 - Radovi objavljeni u vrhunskim časopisima nacionalnog značaja; M52 - Radovi objavljeni u istaknutim nacionalnim časopisima; M53 - Radovi objavljeni u nacionalnim časopisima)



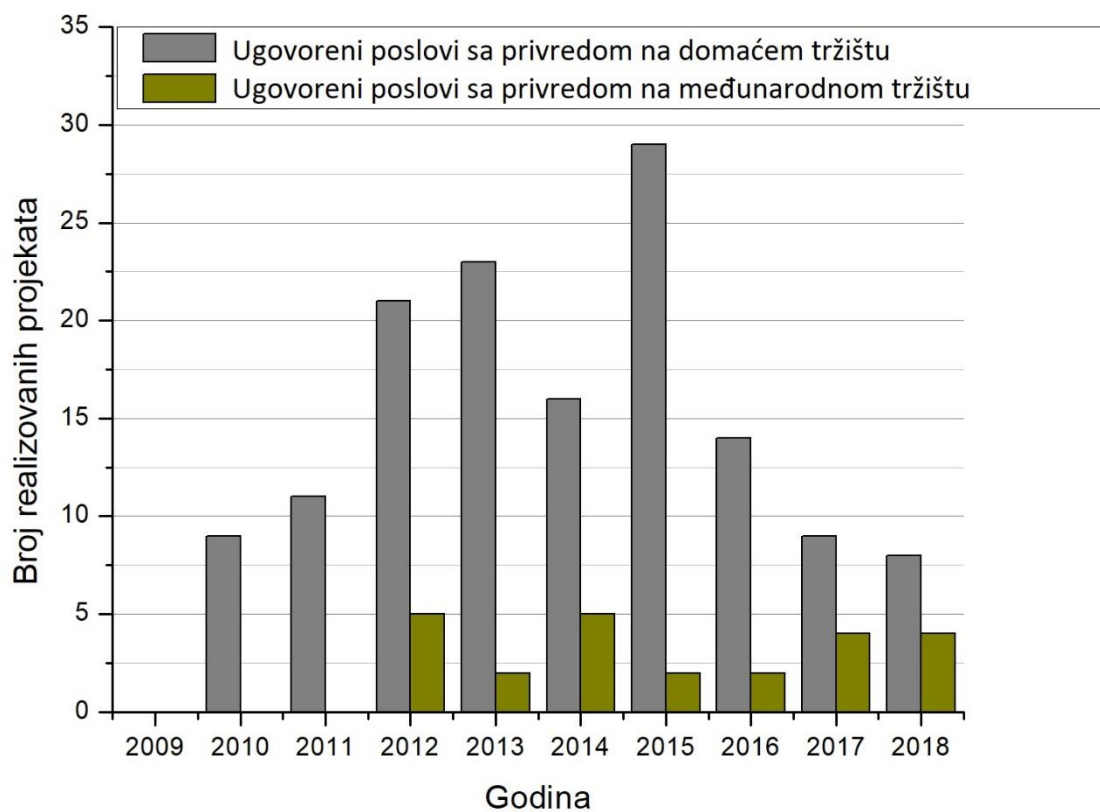
Slika 3. Tehnička rešenja M80 (M81 - Novo tehničko rešenje primenjeno na međunarodnom nivou; M82 - Novo tehničko rešenje (metoda) primenjeno na nacionalnom nivou; M83 - Bitno poboljšano tehničko rešenje na međunarodnom nivou)



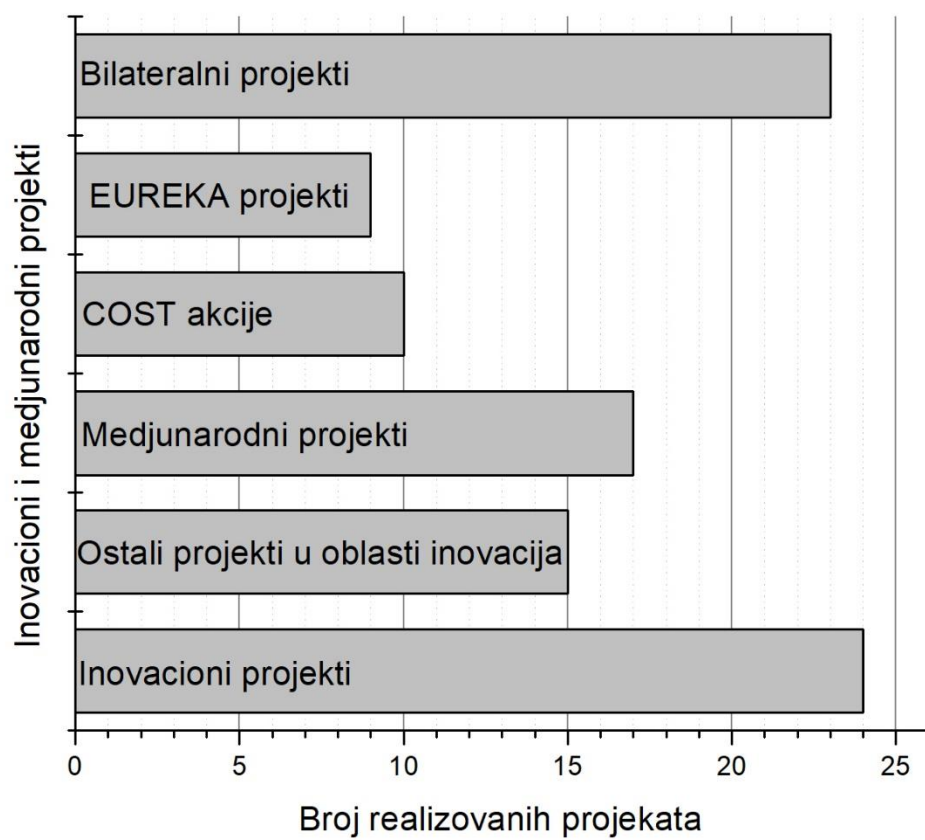
Slika 4. Tehnička rešenja M80 (M84 - Bitno poboljšano tehničko rešenje na nacionalnom nivou; M85 - Novo tehničko rešenje (nije komercijalizovano); M86 - Prijava međunarodnog patenta; M87 - Prijava domaćeg patenta)



Slika 5. Patenti M90 (M92 - Registrovan patent na nacionalnom nivou; M94 - Objavljen patent na nacionalnom nivou; M96 - Realizovana, sorta, rasa ili soj na nacionalnom nivou)



Slika 6. Realizovani komercijalni projekti sa privredom na domaćem i međunarodnom tržištu



Slika 6. Inovacioni i međunarodni projekti realizovani u period od 2009. do 2018. godine