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fenomeni prenosa i hemijske reakcije u višefaznim sistemima fluid-čestice;

interakcije gasova, tečnosti i čvrstih čestica u fluidizovanim, fontanskim i modifikovanim fontanskim slojevima;

sušenje organskih i neorganskih rastvora/suspenzija/pasta u sistemima sa inertnim česticama;

integrisani procesi i multifunkcionalni uređaji za povećanje produktivnosti i energetske efikasnosti u različitim oblastima, prvenstveno za prečišćavanje otpadnih gasova;

tečniog i čvrstog otpada;

razvoj i uvećanje razmera procesa u multifunkcionalnim kontaktorima/reaktorima

autor u izradi 6 tehničkih rešenja recenziranih od strane dva recenzenta-eksperta iz oblasti tehničkog rešenja.

Četni savetnik Z., Arsenijević Z., Grbić B., Garić-Grulović R., Radić N., Pejanović S., Bošković-Vragolović N., Postrojenje za termički tretman tečnog otpada fabrike pesticida (pilot-demonstraciono postrojenje). Novo eksperimentalno postrojenje urađeno u okviru inovacionog projekta 411-00-00144/2008-01-IP Tip 1./42, za korisnika-Fitofarmacija a.d.-Beograd, (2009).

Četni savetnik Z., Grbić B., Arsenijević Z., Radić N., Garić-Grulović R., Pejanović S., Bošković-Vragolović N., Postrojenje za formulaciju nove grupe herbicida na bazi izotiazolona (pilot-demonstraciono postrojenje) za smanjenje emisije štetnih gasova i čestica u radnu i životnu sredinu, bitno poboljšan tehnološki postupak. Poboljšanje tehnologije na industrijskom nivou urađeno u okviru inovacionog projekta 411-00-00144/2008-01-IP Tip 1./42, za korisnika istraživanja: preduzeće Galenika-Fitofarmacija a.d.-Beograd, (2008).

Četni savetnik Z., Arsenijević Z., Grbić B., Garić-Grulović R., Radić N., Pejanović S., Bošković-Vragolović N., Postrojenje za uklanjanje dihlora iz emisijih gasova, industrijski prototip. Postrojenje urađeno u okviru inovacionog projekta 401-00-218/2007-01/45, za korisnika istraživanja: preduzeće Galenika-Fitofarmacija a.d.-Beograd, (2008).

Četni savetnik Z., Arsenijević Z., Grbić B., Radić N., Garić-Grulović R., Pejanović S., Postrojenje za uklanjanje organskih para u radnoj sredini i emisijih gasovima, industrijski prototip. Postrojenje urađeno u okviru inovacionog projekta PTR-8071B, za korisnika istraživanja: preduzeće Galenika-Fitofarmacija a.d.-Beograd, (2007).

Četni savetnik Z., Grbić B., Arsenijević Z., Radić N., Garić-Grulović R., Pejanović S., Postrojenje za uklanjanje dimetilamina iz emisijih gasova, industrijski prototip. Industrijski prototip urađeno u okviru inovacionog projekta PTR-2115B, za korisnika istraživanja: preduzeće Galenika-Fitofarmacija a.d.-Beograd, (2006).

Četni savetnik Z., Arsenijević Z., Grbić B., Radić N., Garić-Grulović R., Pejanović S., Postrojenje za sušenje suspenzija i pasta u fluidizovanom sloju inertnog materijala kapaciteta 650 kg/h, industrijski prototip, Nesting-TMF-IHTM. Realizovano u HI "Životna sredina" projekata ON-02E08, ON-101700 i I.5.1827

Indeks citatnosti (bez autocitata i kocitata), 31.10.2014.god.; h index = 6

Jezik: (maternji), Engleski

Narodni:

2009 Projekat međunarodne saradnje IRC Galenika Fitofarmacija-TMF-IHTM sa Evropskom Agencijom za rekonstrukciju (EAR) i Evropskom bankom za rekonstrukciju i razvoj (Turn Around Management) programa, po Ugovoru BD ref. 5209/2007. Naziv projekta: „Comprehensive (All in) Innovative solution for Pesticide Formulating and Wastewater Treatment“. (saradnik)

2010 Projekt bilateralne saradnje sa Bugarskom (IONH - BAN), Naziv projekta: "Nanostrukturni termostabilni katalitički sistemi sa niskim hidrodinamičkim otporom". (saradnik)

2013 Produžena bilateralna saradnja sa Bugarskom (IONH - BAN), Naziv projekta: Nanostrukturni termostabilni katalitički sistemi sa niskim hidrodinamičkim otporom". (saradnik)

2017 Projekat bilateralne saradnje sa Bugarskom (BAS - IHTM), Naziv projekta: Development of advanced catalytic systems applicable to chemical and petrochemical production and the neutralization of environmental pollutions: 2014 – 2017 (saradnik).

nalni:

na istraživanja

- 2000** Fenomeni prenosa u višefaznim sistemima, projekat 02E08, Pp2: Fenomeni prenosa u višefaznim sistemima fluid-čestice, MNT RS, (saradnik)
- 2005** Istraživanje fenomena prenosa relevantnih za razvoj procesa i opreme u oblasti kontaktora fluid-čestice i separacionih procesa, projekat 1700, MNTR RS, (saradnik)
- 2010** Istraživanje fenomena prenosa relevantnih za razvoj višefaznih procesa i opreme, projekat 142014G, MNTR RS, (saradnik)
- 2016** Razvoj efikasnijih hemijsko-inženjerskih procesa zasnovan na istraživanjima fenomena prenosa i principima intenzifikacije procesa, projekat 172022, MNTR RS
- rađena istraživanja:**
- 1999** Razvoj postupka i poluindustrijskog postrojenja za sušenje suspenzija u fluidizovanom sloju inertnog materijala, Inovacioni projekat I5.1827, MNTR RS, (saradnik)
- 2002** Projekat poluindustrijskog-demonstracionog postrojenja za uklanjanje etilen oksida iz emisionih gasova katalitičkim sagorevanjem, projekat rađen za Ministarstvo zaštite životne okoline, TMF-IHTM, (saradnik)
- 2006** Razvoj postupka i industrijskog prototipa za prečišćavanje dimetil amina u emisionim gasovima, Inovacioni projekat PTR-2115B, TMF-IHTM-GALENIKA RS, (saradnik)
- 2007** Razvoj postupka i industrijskog prototipa za uklanjanje organskih para u radnoj sredini i emisionim gasovima, Inovacioni projekat PTR-8071B, TMF-IHTM-MNZ RS, (saradnik)
- 2008** Formulacija nove grupe herbicida na bazi izopropilamina – razvoj postupka u zatvorenom sistemu i eliminacija emisije štetnih gasova i čestica u radnoj sredini, projekat 401-00-218/2007-01/46, IRC GALENIKA FITOFARMACIJA-TMF-IHTM-NESTING-MN RS, (saradnik)
- 2008** Razvoj tehnologije i industrijskog prototipa za uklanjanje dihlubenila iz emisionih gasova, Inovacioni projekat 401-00-218/2007-01/45, IRC GALENIKA FITOFARMACIJA-TMF-IHTM-NESTING-MN RS, (saradnik)
- 2009** Razvoj postupka i izgradnja pilot postrojenja za tretman tečnog otpada fabrike pesticida, Inovacioni projekat 411-00-00144/2008-01-IP Tip 1./42, IRC GALENIKA FITOFARMACIJA-TMF-IHTM-NESTING-MN RS, (saradnik)

grafije, poglavlja u knjigama

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