

Sveska 1-2

SADRŽAJ

Reč urednika

Marija B. Tasić, Ivana B. Banković-Ilić, Miodrag L. Lazić, Vlada B. Veljković, Ljiljana V. Mojović, Bioetanol – Stanje i perspektive (Pregledni rad).....	1
Radmila M. Šećerov Sokolović, Zoran V. Bjelović, Srđan S. Sokolović, Uticaj sadržaja čvrstih parafina na reologiju model – nafte (Naučni rad).....	10
Slavica S. Lazarević, Ivona M. Janković-Častvan, Miloje M. Ilić, Dušan M. Jovanović, Đorđe T. Janačković, Rada D. Petrović, Sorpcija jona olova, kadmijuma i stroncijuma iz vodenih rastvora na sepiolitu (Naučni rad).....	15
Tatjana Botić, Nadežda Ilišković, Hidroliza štavljenih otpadaka u baznim, kiselim i oksidativnim uslovima (Naučni rad).....	23
Milutin M. Milosavljević, Aleksandar D. Marinković, Siniša Đorđević, Sinteza N– i N,N–dialkil–S–alkiltiol-karbamata premještanjem N– i N,N–dialkil–O–alkiltionkarbamata (Naučni rad).....	27
Biljana Pejić, Kovička Asanović, Mirjana Kostić, Petar Škundrić, Tatjana Mihajlidi, Uticaj pratećih komponenata vlakana konoplje na njihovu električnu otpornost (Naučni rad).....	33
Irena D. Živković, Aleksandar M. Kojović, Miloš C. Tomić, Ljiljana M. Brajović, Radoslav R. Aleksić, Upotreba optičkih vlakana za detekciju oštećenja kompozitnih laminata namenjenih za balističku zaštitu (Naučni rad).....	39
Jetse C. Reijenga, Chemical Engineering and Chemistry: Education in a Changing World (Professional paper).....	45
PRIVREDNE VESTI.....	52
TEHNOLOŠKE NOVOSTI.....	54
NOVI APARATI I UREĐAJI.....	56
ZAŠTITA OKOLINE.....	58

CONTENTS

Editorial

Marija B. Tasić, Ivana B. Banković-Ilić, Miodrag L. Lazić, Vlada B. Veljković, Ljiljana V. Mojović, Bioethanol – State and Perspectives (Review paper).....	1
Radmila M. Šećerov Sokolović, Zoran V. Bjelović, Srđan S. Sokolović, Effect of Solid Paraffins on Crude Oil Rheology (Scientific paper).....	10
Slavica S. Lazarević, Ivona M. Janković-Častvan, Miloje M. Ilić, Dušan M. Jovanović, Đorđe T. Janačković, Rada D. Petrović, The Sorption of Lead, Cadmium and Strontium from Aqueous Solutions on Sepiolite (Scientific paper).....	15
Tatjana Botić, Nadežda Ilišković, Hydrolysis of Tanned Leather Wastes under Alkaline, Acidic and Oxidative Conditions (Scientific paper).....	23
Milutin M. Milosavljević, Aleksandar D. Marinković, Siniša Đorđević, Synthesis of N– and N,N–Dialkyl–S–Alkylthiocarbamates by the rearrangement of N– and N,N–Dialkyl–O–Thiocarbamates (Scientific paper).....	27
Biljana Pejić, Kovička Asanović, Mirjana Kostić, Petar Škundrić, Tatjana Mihajlidi, Influence of Accompanying substances of Hemp Fibres on Their Electric Resistance (Scientific paper).....	33
Irena D. Živković, Aleksandar M. Kojović, Miloš C. Tomić, Ljiljana M. Brajović, Radoslav R. Aleksić, The Usage of Optical Fibers for Damage Detection in Ballistic Protection Composite Laminates (Scientific paper).....	39
Jetse C. Reijenga, Chemical Engineering and Chemistry: Education in a Changing World (Professional paper).....	45
BUSINESS NEWS.....	52
SCIENCE AND TECHNOLOGY NEWS.....	54
NEW APARATUS AND EQUIPMENT.....	56
ENVIRONMENTAL PROTECTION.....	58

Sveska 3-4

SADRŽAJ

Sandra B. Glišić, Sretko V. Popadić, Dejan U. Skala, Kantarion (<i>Hypericum perforatum</i> L.) – Natkritična ekstrakcija, antimikrobna i antidepresivna aktivnost ekstrakta i pojedinih komponenti (Pregledni rad).....	61
Jasmina Dostanić, Mihela Barbu, Radmila Jančić-Heinemann, Tatjana Volkov-Husović, Gordana Ušćumlić, Dušan Mijin, Korišćenje analize slike za utvrđivanje interakcije 1,3,5– trisupstituisanih izocijanurata sa oksidansom i različitim vezivima u kompozitnim gorivima (Naučni rad).....	72
Sreten B. Stojanović, Dragutin Lj. Debeljković, Ilija Mladenović, Asimptotska stabilnost linearnih diskretnih sistema sa kašnjenjem: Ljapunov prilaz (Naučni rad).....	78
Sreten B. Stojanović, Dragutin Lj. Debeljković, Ilija Mladenović, Robusna stabilnost perturbovanih linearnih diskretnih sistema sa više kašnjenja (Naučni rad).....	82
Dušanka Mihajlović, Vesna Novković, Vladimir Banković, Određivanje hiperozida u cvetu i listu gloga (<i>Crataegus oxyantha</i> i <i>Crataegus monogyna</i>) primenom metode spektrofotometrije (Naučni rad).....	87
OSVEŽIMO NAŠE ZNANJE Svetomir Milojević, Dejan Skala, II: Projektovanje destilacionih sistema (Stručni rad).....	92
PRIVREDNE VESTI.....	103
TEHNOLOŠKE NOVOSTI.....	104
NOVI APARATI I UREĐAJI.....	105
ZAŠTITA OKOLINE.....	106
STRUČNE MANIFESTACIJE.....	111

CONTENTS

Sandra B. Glišić, Sretko V. Popadić, Dejan U. Skala, St. John's Wort <i>Hypericum perforatum</i> L. – Supercritical extraction, antimicrobial and antidepressant activity of extract and some component (Review paper).....	61
Jasmina Dostanić, Mihela Barbu, Radmila Jančić-Heinemann, Tatjana Volkov Husović, Gordana Ušćumlić, Dušan Mijin, The use of image analysis for the interaction of 1,3,5–trisubstituted isocyanurates with oxidizer and different binders in composite materials (Scientific paper).....	72
Sreten B. Stojanović, Dragutin Lj. Debeljković, Ilija Mladenović, On the asymptotic stability of linear discrete time–delay systems: The Lyapunov approach (Scientific paper).....	78
Sreten B. Stojanović, Dragutin Lj. Debeljković, Ilija Mladenović, Robust stability of linear perturbed discrete systems with multiple time–delay (Scientific paper).....	82
Dušanka Mihajlović, Vesna Novković, Vladimir Banković, The determination of hyperoside in the flower and leaf of the hawthorn (<i>Crataegus oxyantha</i> and <i>Crataegus monogyna</i>) by the spectrophotometric method (Scientific paper).....	87
REFRESHMENT TOPICS Svetomir Milojević, Dejan Skala, II: Design of distillation columns (Professional paper).....	92
BUSINESS NEWS.....	103
SCIENCE AND TECHNOLOGY NEWS.....	104
NEW APARATUS AND EQUIPMENT.....	105
ENVIRONMENTAL PROTECTION.....	106
FURTHER PROFESSIONAL MANIFESTATIONS.....	111

Sveska 5-6

SADRŽAJ

Živorad Čeković, Zaštita bilja pomoću prirodnih pesticida (Stručni rad).....	113
Miodrag Šmelcerović, Dragan Đorđević, Mile Novaković, Bojenje tekstila bojama iz prirodnih izvora (Revizijalni rad).....	120
Snežana B. Stanković, Kompresibilnost pletenina podvrgnutih testu nege i nošenja (Naučni rad).....	129
Slobodan Prendžov, Kristijan Lončar, Bojan Dimzoski, Magdalena Prendžova, Utjecaj prirode poliola na geometriju ćelija i termostabilnost poliuretanske pene (Naučni rad).....	138
V. Vidojković, N. Đorđević, T. Boljanac, M. Vlahović, S. Martinović, Ispitivanje mogućnosti vezivanja čestica letećeg pepela iz termoelektrana elementarnim sumporom (Stručni rad).....	144
Stanko Cvjetičanin, Mirjana Segedinac, Ekohemijska informisanost, ponašanje i angažovanost radnika zaposlenih u industriji mineralnih đubriva u Novom Sadu (Stručni rad).....	148
ACHEMA 2006.....	153
PRIVREDNE VESTI.....	162
TEHNOLOŠKE NOVOSTI.....	164
NOVI APARATI I UREĐAJI.....	166
ZAŠTITA OKOLINE.....	168
STRUČNE MANIFESTACIJE.....	170

CONTENTS

Živorad Čeković, Natural products for plant protection (Professional paper).....	113
Miodrag Šmelcerović, Dragan Djordjević, Mile Novaković, Textile dyeing by dyestuffs from natural origin (Review paper).....	120
Snežana B. Stanković, Compressional behavior of knitted fabrics exposed to repeated wash and wear cycles (Original scientific paper).....	129
Slobodan Prendžov, Kristijan Lončar, Bojan Dimzoski, Magdalena Prendžova, The influence of polyols nature on the geometry of cells and the thermal stability of polyurethane foams (Scientific paper).....	138
V. Vidojković, N. Djordjević, T. Boljanac, M. Vlahović, S. Martinović, (Professional paper).....	144
Stanko M. Cvjetičanin, Mirjana D. Segedinac, Eco-chemical knowledge, behaviour and engagement of the workers employed in the industry of the mineral fertilizers in Novi Sad (Professional paper).....	148
ACHEMA 2006.....	153
BUSINESS NEWS.....	162
SCIENCE AND TECHNOLOGY NEWS.....	164
NEW APARATUS AND EQUIPMENT.....	166
ENVIRONMENTAL PROTECTION.....	168
FURTHER PROFESSIONAL MANIFESTATIONS.....	170

Sveska 7-8

SADRAŽAJ

Nataša D. Čalić, Mirjana Đ. Ristić, Ispitivanje karakteristika procednih voda deponije 'Vinča' metodom izluživanja (Naučni rad).....	171
Aleksandar M. Kojović, Irena D. Živković, Ljiljana M. Brajović, Dragan Mitraković, Radoslav R. Aleksić, Detektovanje oštećenja u laminarnim termoplastičnim kompozitnim materijalima korišćenjem ugrađenih optičkih vlakana (Naučni rad).....	176
Milan I. Čekerevac, Miloš V. Simičić, Petar M. Rakin, Negica H. Popović, Ljiljana N. Nikolić-Bujanović, Dejan P. Rakin, Ekološko dezinfekciono sredstvo: dobijanje, dezinfekciono dejstvo i efikasnost (Naučni rad).....	180
Vladimir Valent, Milorad Krgović, Srećko Nikolić, Analiza energijskog potencijal vlažnog vazduha tokom sušenja trake papira (Naučni rad).....	188
Ljubica Mijić, Mirjana Segedinac, Milana Tomić, Primena modela aktivizacije u nastavi/učenju hemije za buduće inženjere prehrambene tehnologije (Stručni rad).....	195
ACHEMA 2006.....	202
PRIVREDNE VESTI.....	210
TEHNOLOŠKE NOVOSTI.....	212
NOVI APARATI I UREĐAJI.....	214
ZAŠTITA OKOLINE.....	216
PRIKAZ KNJIGE.....	218

CONTENTS

Nataša D. Čalić, Mirjana Dj. Ristić, Vinča landfill leachate characteristics prediction by the leaching method (Scientific paper).....	171
Aleksandar M. Kojović, Irena D. Živković, Ljiljana M. Brajović, Dragan Mitraković, Radoslav R. Aleksić, Damage detection in laminar thermoplastic composite materials by means of embedded optical fibers (Scientific paper).....	176
Milan I. Čekerevac, Miloš V. Simičić, Petar M. Rakin, Negica H. Popović, Ljiljana N. Nikolić-Bujanović, Dejan P. Rakin, Environmentally friendly disinfectant: Production, disinfectant action and efficiency (Scientific paper).....	180
Vladimir Valent, Milorad Krgović, Srećko Nikolić, An analysis of moist air energy potential during the process of paper band drying (Scientific paper).....	188
Ljubica Mijić, Mirjana Segedinac, Milana Tomić, Application of the activation model in the education/teaching of future food engineers (Professional paper).....	195
ACHEMA 2006.....	202
BUSINESS NEWS.....	210
SCIENCE AND TECHNOLOGY NEWS.....	212
NEW APARATUS AND EQUIPMENT.....	214
ENVIRONMENTAL PROTECTION.....	216
BOOK REVIEW.....	218

Sveska 9-10

Sveska 11-12

SADRŽAJ

Miloš B. Rajković, Udesi (akcidenti i incidenti) sa sumpornom kiselinom (Stručni rad)	221
Ana P. Jovanović, Mirko Z. Stijepović, Mića B. Jovanović, Analiza gubitaka isparavanja naftnih derivata na primeru auto pretakališta (Stručni rad)	239
Zvezdana Baščarević, Miroslav Komljenović, Ljiljana Petrašinović–Stojkanović, Nataša Jovanović, Aleksandra Rosić, Mihailo Ršumović, Ispitivanje svojstava elektrofilterskog pepela termoelektrana u cilju njegove upotrebe kao sekundarne sirovine za proizvodnju portland–cementnog klinkera (Stručni rad)	245
Nataša Jovanović, Miroslav Komljenović, Ljiljana Petrašinović–Stojkanović, Zvezdana Baščarević, Violeta Bradić, Aleksandra Rosić, Supstitucija glinovite mineralne komponente lignitskim elektrofilterskim pepelom pri sintezi portland–cementnog klinkera (Naučni rad)	253
Dragan Đorđević, Mile Novaković, Sandra Konstantinović, Primena ciklodekstrina u oblasti tekstila (Stručni rad)	259
ACHEMA 2006	269

CONTENTS

Miloš B. Rajković, Accidents with sulfuric acid (Professional paper)	221
Ana P. Jovanović, Mirko Z. Stijepović, Mića B. Jovanović, The analysis of loading losses from tank trucks (Professional paper)	239
Zvezdana Baščarević, Miroslav Komljenović, Ljiljana Petrašinović–Stojkanović, Nataša Jovanović, Aleksandra Rosić, Mihailo Ršumović, Investigation of fly ash properties with purpose of its utilization as a secondary raw material for portland cement clinker production (Professional paper)	245
Nataša Jovanović, Miroslav Komljenović, Ljiljana Petrašinović–Stojkanović, Zvezdana Baščarević, Violeta Bradić, Aleksandra Rosić, Substitution of the clayey mineral component by lignite fly ash in portland cement clinker synthesis (Scientific paper)	253
Dragan Djordjević, Mile Novaković, Sandra Konstantinović, The application of cyclodextrins in textile area (Professional paper)	259
ACHEMA 2006	269

SADRŽAJ

Dragoslav Stoilković, Budimir Damjanović, Jovica Đorđević, Danko Špehar, Slobodan Jovanović, Compressed ethylene phase states and their importance for the production of low density polyethylene (Scientific paper)	283
Grozdana Bogdanić, Group contribution methods for estimating the properties of polymer systems (Scientific paper)	289
Aleksandra B. Nastasović, Slobodan M. Jovanović, Antonije E. Onjia, Zvezdana P. Sandić, Ljiljana. T. Malović, Dragica M. Jakovljević, Zorica M. Vuković, Primena makroporoznih kopolimera u sorpciji teških i plemenitih metala iz vodenih rastvora (Naučni rad)	306
Zorica M. Kačarević–Popović, Bojana Šećerov, Milena T. Marinović–Cincović, Zoran Nedić, Slobodan M. Jovanović, Modification of ethylene-norbornene copolymer by gamma irradiation (Scientific paper)	311
Jelena B. Bajat, Vesna B. Mišković–Stanković, Jovan P. Popić, Dragutin M. Dražić, Adhezija epoksidne katarforetske prevlake na fosfatiranom pocinkovanom čeliku (Naučni rad)	316
Jaroslava Budinski–Simendić, Jelena Milić, Ivana Cvetković, Radmila Radičević, Ljiljana Korugić–Karasz, Miodrag Vukov, Desa Mirković, Uticaj punila na svojstva elastomernih materijala na bazi poli(etilen–ko–propilen–ko–2–etiliden–5–norbornen) kaučuka (rad)	321
Ljubiša Nikolić, Vesna Nikolić, Miroslav Stanković, Zoran Todorović, Zorica Vuković, Porozni poli(metilmetakrilat) i poli(metilmetakrilat–co–akrilamid) (Naučni rad)	327
PROGNOZA PROIZVODNJE I POTROŠNJE ZNAČAJNIH POLIMERNIH MATERIJALA	333
HEMIJSKA INDUSTRIJA – Vol. 60	341
INDEX AUTORA	344

CONTENTS

Dragoslav Stoilković, Budimir Damjanović, Jovica Đorđević, Danko Špehar, Slobodan Jovanović, Compressed ethylene phase states and their importance for the production of low density polyethylene (Scientific paper)	283
Grozdana Bogdanić, Group contribution methods for estimating the properties of polymer systems (Scientific paper)	289
Aleksandra B. Nastasović, Slobodan M. Jovanović, Antonije E. Onjia, Zvezdana P. Sandić, Ljiljana. T. Malović, Dragica M. Jakovljević, Zorica M. Vuković, The applicaton of macroporous copolymers in the sorption of heavy and precious metals from aqueous solutions (Scientific paper)	306
Zorica M. Kačarević–Popović, Bojana Šećerov, Milena T. Marinović–Cincović, Zoran Nedić, Slobodan M. Jovanović, Modification of ethylene-norbornene copolymer by gamma irradiation (Scientific paper)	311
Jelena B. Bajat, Vesna B. Mišković–Stanković, Jovan P. Popić, Dragutin M. Dražić, The adhesion of epoxy cataphoretic coating on phosphatized hot-dip galvanized steel (Scientific paper)	316
Jaroslava Budinski–Simendić, Jelena Milić, Ivana Cvetković, Radmila Radičević, Ljiljana Korugić–Karasz, Miodrag Vukov, Desa Mirković, The influence of filler on the properties of elastomeric materials based on poly(ethylene–co–propylene–co–2–ethylidene–5–norbornene) rubber (paper)	321
Ljubiša Nikolić, Vesna Nikolić, Miroslav Stanković, Zoran Todorović, Zorica Vuković, Porous poly(methylmethacrylate) and poly(methylmethacrylate–co–acrylamide) (Scientific paper)	327
CHEMICAL INDUSTRY – Vol. 60	341
AUTHOR INDEX	344

A

Aleksić R. Radoslav (1–2) 39;
(7–8) 176

Asanović Koviljka (1–2) 33

B

Bajat B. Jelena (11–12) 316

Banković–Ilić Ivana (1–2) 1

Banković Vladimir (3–4) 87

Barbu Mihela (3–4) 72

Baščarević Zvezdana (9–10)
245, 253

Bjelović V. Zoran (1–2) 10

Bogdanić Grozdana (11–12)
289

Boljanac T. (5–6) 144

Botić Tatjana (1–2) 23

Bradić Violeta (9–10) 253

Brajović M. Ljiljana (1–2) 39;
(7–8) 176

Budinski–Simendić Jaroslava
(11–12) 321

C

Cvetković Ivana (11–12) 321

Cvjetičanin Stanko (5–6) 148

Ć

Ćalić D. Nataša (7–8) 171

Č

Čekerevac I. Milan (7–8) 180

Čeković Živorad (5–6) 113

D

Damjanović Budimir (11–12)
283

Debeljković Lj. Dragutin (3–4)
78, 82

Dimzosi Bojan (5–6) 138

Dostanić Jasmina (3–4) 72

Dražić M. Dragutin (11–12) 316

Đ

Đorđević Dragan (5–6) 120;
(9–10) 259

Đorđević Jovica (11–12) 283

Đorđević N. (5–6) 144

Đorđević Siniša (1–2) 27

G

Glišić B. Sandra (3–4) 61

I

Ilić M. Miloje (1–2) 15

Ilišković Nadežda (1–2) 23

J

Jakovljević M. Dragica (11–12)
306

Janačković T. Đorđe (1–2) 15

Jančić–Heinemann Radmila
(3–4) 72

Janković–Častvan Ivona (1–2)
15

Jovanović B. Mića (9–10) 239

Jovanović M. Dušan (1–2) 15

Jovanović Nataša (9–10) 245,
253

Jovanović P. Ana (9–10) 239

Jovanović Slobodan (11–12)
283, 306, 311

K

Kačarević–Popović Zorica
(11–12) 311

Kojović M. Aleksandar (1–2)
39; (7–8) 176

Komljenović Miroslav (9–10)
245, 253

Konstantinović Sandra (9–10)
259

Korugić–Karasz Ljiljana
(11–12) 321

Kostić Mirjana (1–2) 33

Krgović Milorad (7–8) 188

L

Lazarević S. Slavica (1–2) 15

Lazić L. Miodrag (1–2) 1

Lončar Kristijan (5–6) 138

M

Malović T. Ljiljana (11–12) 306

Marinković D. Aleksandar (1–2)
27

Marinović–Cincović Milena
(11–12) 311

Martinović S. (5–6) 144

Mihajlić Tatjana (1–2) 33

Mihajlović Dušanka (3–4) 87

Mijić Ljubica (7–8) 195

Mijin Dušan (3–4) 72

Milić Jelena (11–12) 321

Milojević Svetomir (3–4) 92

Milosavljević M. Milutin (1–2) 27

Mirković Desa (11–12) 321

Mišković–Stanković Vesna
(11–12) 316

Mitraković Dragan (7–8) 176

Mladenović Ilija (3–4) 78, 82

Mojović V. Ljiljana (1–2) 1

N

Nastasović B. Aleksandra
(11–12) 306

Nedić Zoran (11–12) 311

Nikolić Ljubiša (11–12) 327

Nikolić Srećko (7–8) 188

Nikolić Vesna (11–12) 327

Nikolić–Bujanović Ljiljana (7–8)
180

Novaković Mile (5–6) 120;
(9–10) 259

Novković Vesna (3–4) 87

O

Onjia E. Antonije (11–12) 306

P

Pejić Biljana (1–2) 33

Petrašinović–Stojkanović
Ljiljana (9–10) 245, 253

Petrović D. Rada (1–2) 15

Popadić V. Sretko (3–4) 61

Popić P. Jovan (11–12) 316

Popović H. Negica (7–8) 180

Prenđžova Magdalena (5–6) 138

Prenđžov Slobodan (5–6) 138

R

Radičević Radmila (11–12) 321

Rajković B. Miloš (9–10) 221

Rakin M. Petar (7–8) 180

Rakin P. Dejan (7–8) 180

Reijenga Jetse C. (1–2) 45

Ristić Đ. Mirjana (7–8) 171

Rosić Aleksandra (9–10) 245,
253

Ršumović Mihailo (9–10) 245

S

Sandić P. Zvezdana (11–12)
306

Segedinac Mirjana (5–6) 148;
(7–8) 195

Simičić V. Miloš (7–8) 180

Skala U. Dejan (3–4) 61, 92

Sokolović S. Srđan (1–2) 10

Stanković B. Snežana (5–6)
129

Stanković Miroslav (11–12) 327

Stijepović Z. Mirko (9–10) 239

Stoiljković Dragoslav (11–12) 283

Stojanović B. Sreten (3–4) 78, 82

Š

Šećerov Bojana (11–12) 311

Šećerov–Sokolović Radmila
(1–2) 10

Škundrić Petar (1–2) 33

Šmelcerović Miodrag (5–6) 120

Špehar Danko (11–12) 283

T

Tasić B. Marija (1–2) 1

Todorović Zoran (11–12) 327

Tomić C. Miloš (1–2) 39

Tomić Milana (7–8) 195

U

Učćumlić Gordana (3–4) 72

V

Valent Vladimir (7–8) 188

Veljković B. Vlada (1–2) 1

Vidojković V. (5–6) 144

Vlahović M. (5–6) 144

Volkov–Husović Tatjana (3–4)
72

Vukov Miodrag (11–12) 321

Vuković M. Zorica (11–12) 306,
327

Ž

Živković D. Irena (1–2) 39;
(7–8) 176