

www.ache.org.yu/hi/

Sveska 1–2

Sveska 3–4

SADRŽAJ

Milan N. Sovilj, Branislava G. Barjaktarović, Indeksi refrakcije trokomponentnih tečnih smeša alifatičnih alkohola na različitim temperaturama (Naučni rad)	1
Goran S. Nikolić, Milorad D. Cakić, Žarko J. Mitić, Ružica S. Nikolić, Ljubomir A. Ilić, Korelacija UV-VIS spektra i strukture Cu(II) kompleksa u alkalnim rastvorima hidrogenovanog dekstrana (Naučni rad)	9
Dragiša S. Savić, Miodrag L. Lazić, Vlada V. Veljković, Miroslav M. Vrvic, Oksidacija pirita pomoću bakterije <i>Acidithiobacillus ferrooxidans</i> (Naučni rad)	15
Dragana Z. Čičkarić, Jagoda Čučković, Ljubinka V. Rajaković, Analiza tragova anjona u sistemu vodapara u termoenergetskim postrojenjima (Naučni rad)	19
Biljana S. Marina, Snežana S. Brezovska, Dončo K. Burevski, Biljana I. Angjuševa, Monoslojni kapacitet i specifične površine cementnih pasta određenih iz adsorpcionih izoterma benzena (Naučni rad)	28
Slavica Mihajlović, Živko Sekulić, Milan Petrov, Obloženi krečnjak kao punilo za proizvodnju PVC-proizvoda (Naučni rad)	32
ASHEMASIA	36
PRIVREDNE VESTI	41
TEHNOLOŠKE NOVOSTI	43
NOVI APARATI I UREĐAJI	45
ZAŠTITA OKOLINE	47

CONTENTS

Milan N. Sovilj, Branislava G. Barjaktarović, Refractive indices of ternary liquid mixtures containing aliphatic alcohols at several temperatures (Scientific paper)	1
Goran S. Nikolić, Milorad D. Cakić, Žarko J. Mitić, Ružica S. Nikolić, Ljubomir A. Ilić, Correlation between UV-VIS spectra and the structure of Cu(II) complexes with hydrogenated dextran in alkaline solutions (Scientific paper)	9
Dragiša S. Savić, Miodrag L. Lazić, Vlada V. Veljković, Miroslav M. Vrvic, Pyrite oxidation by acidithiobacillus ferrooxidans bacteria (Scientific paper)	15
Dragana Z. Čičkarić, Jagoda Čučković, Ljubinka V. Rajaković, Analysis of trace anions in the water-steam cycle in power plants (Scientific paper)	19
Biljana Marina, Snežana Brezovska, Dončo Burevski, Biljana Angjuševa, Monolayer capacity and specific surface area of cement pastes determined from benzene adsorption isotherms (Scientific paper)	28
Slavica Mihajlović, Živko Sekulić, Milan Petrov, Coated limestone as a filler for the production of PVC-products (Scientific paper)	32
ASHEMASIA	36
BUSINESS NEWS	41
SCIENCE AND TECHNOLOGY NEWS	43
NEW APARATUS AND EQUIPMENT	45
ENVIRONMENTAL PROTECTION	47

SADRŽAJ

Olivera S. Stamenković, Miodrag L. Lazić, Vlada B. Veljković, Dejan U. Skala, Dobijanje biodizela transesterifikacijom katalizovanom enzimima (Pregledni rad)	49
Jovan D. Jovanović, Dušan K. Grozdanić, Kritički prikaz modela za predskazivanje normalne temperature mržnjenja organskih supstanci (Pregledni rad)	60
Hela I. Tokoš, Zoltan Z. Zavargo, Mirjana S. Đurić, Modelovanje simultane ultrafiltracije i diafiltracije sa realnim fluksom (Naučni rad)	66
Aleksandar Jokić, Julianna Gyura, Zoltan Zavargo, Ljubinka Lević, Kinetika konvektivnog sušenja ekstrahovanih rezanaca šećerne repe (Naučni rad)	73
Miloš B. Rajković, Lazar Perić, Određivanje aldehida: furfurala i benzaldehida u rakiji šljivovici (Naučni rad)	78
ACHEMASIA 2004	84
PRIVREDNE VESTI	94
TEHNOLOŠKE NOVOSTI	97
NOVI APARATI I UREĐAJI	100
ZAŠTITA OKOLINE	103
STRUČNE MANIFESTACIJE	106

CONTENTS

Olivera S. Stamenković, Miodrag L. Lazić, Vlada B. Veljković, Dejan U. Skala, Biodiesel production by enzyme-catalyzed transesterification (Review paper)	49
Jovan D. Jovanović, Dušan K. Grozdanić, Critical review of relations for predicting the normal freezing point of organic compounds (Review paper)	60
Hela I. Tokoš, Zoltan Z. Zavargo, Mirjana S. Đurić, Modeling of simultaneous ultrafiltration and diafiltration with real flux (Scientific paper)	66
Aleksandar Jokić, Julianna Gyura, Zoltan Zavargo, Ljubinka Lević, Kinetics of convective drying of the sugar beet pulp (Scientific paper)	73
Miloš B. Rajković, Lazar Perić, The determination of furfuraldehyde and benzaldehyde in plum brandy (Scientific paper)	78
ACHEMASIA 2004	84
BUSINESS NEWS	94
SCIENCE AND TECHNOLOGY NEWS	97
NEW APARATUS AND EQUIPMENT	100
ENVIRONMENTAL PROTECTION	103
FURTHER PROFESSIONAL MANIFESTATIONS	106

www.ache.org.yu/hi/

Sveska 5–6

Sveska 7–8

SADRŽAJ

Dušan D. Stanojević, Milorad Tomić, Gorivna ćelija juče, danas i sutra (Stručni rad)	109
Nikolaj Ostrovski, Predrag Stamenković, Franja Kenig, Siniša Mauhar, Branislava Barjaktarović, Povećanje tehnološke i enegretske efikasnosti kolone za destilaciju propilena (Naučni rad)	125
Jelena Kesić, Dejan Skala, Životni ciklus antifrizza: I. Matematički model (Naučni rad)	132
OSVEŽIMO NAŠE ZNANJE Svetomir Milojević, Separacioni procesi: I. Azeotropna rektifikacija (Stručni rad)	141
ACHEMASIA 2004	151
PRIVREDNE VESTI	161
TEHNOLOŠKE NOVOSTI	163
NOVI APARATI I UREĐAJI	165
ZAŠTITA OKOLINE	167

CONTENTS

Dušan D. Stanojević, Milorad Tomić, The fuel cell yesterday, today and tomorrow (Professional paper)	109
Nikolaj Ostrovski, Predrag Stamenković, Franja Kenig, Siniša Mauhar, Branislava Barjaktarović, Technological and energetic improvement of a propylene distillation column (Scientific paper)	125
Jelena Kesić, Dejan Skala, The antifreeze life cycle assessment (LCA): I. Mathematical model (Scientific paper)	132
REFRESHMENT TOPICS Svetomir Milojević, Separation processes: I. Azeotropic rectification (Professional paper)	141
ACHEMASIA 2004	151
BUSINESS NEWS	161
SCIENCE AND TECHNOLOGY NEWS	163
NEW APARATUS AND EQUIPMENT	165
ENVIRONMENTAL PROTECTION	167

SADRŽAJ

11. Međunarodni simpozijum iz oblasti celuloze, papira, ambalaže i grafičke industrije 22-25. jun 2005. – Zlatibor, Srbija	
Predrag Živković, Slobodan Jovanović, Trendovi u izradi štamparskih formi za ofset štampu (Stručni rad)	169
Bojana Klačnja, Saša Orlović, Nenad Radosavljević, Miroslav Marković, Drvo vrbe (<i>Salix alba</i>) kao sirovina za proizvodnju vlakana (Naučni rad)	175
Ljubomir S. Lukić, Milorad V. Krgović, Ilija M. Jaraković, Forming mašine za proizvodnju elemenata papirne ambalaže (Stručni rad)	180
Iztok Dolenc, Mekše obloge valjaka – bolje odvodnjavanje (Prva presa papirnog stroja PS 2, Belišće, Hrvatska) (Stručni rad)	185
Vladimir J. Valent, Termoradijaciono sušenje premaza papira (Stručni rad)	190
Nataša Cvetković, Slavenko Grgurević, Ekonomski položaj industrije celuloze i papira u uslovima tranzicije (Stručni rad)	194
PRIVREDNE VESTI	199
TEHNOLOŠKE NOVOSTI	201
NOVI APARATI I UREĐAJI	203
ZAŠTITA OKOLINE	205

CONTENTS

Predrag Živković, Slobodan Jovanović, Trends in making offset printing forms (Professional paper)	169
Bojana Klačnja, Saša Orlović, Nenad Radosavljević, Miroslav Marković, Willow wood (<i>Salix alba</i>) as a raw material for pulp production (Scientific paper)	175
Ljubomir S. Lukić, Milorad V. Krgović, Ilija M. Jaraković, Pulp moulding machines for the production of packing paper elements (Professional paper)	180
Iztok Dolenc, Soft roll linings – Better conduits (First press of the PS 2 paper machine, Belisce, Croatia) (Professional paper)	185
Vladimir J. Valent, Thermoradial drying of the paper coating (Professional paper)	190
Nataša Cvetković, Slavenko Grgurević, Economic state of the cellulose and paper industry under transition conditions (Professional paper)	194
BUSINESS NEWS	199
SCIENCE AND TECHNOLOGY NEWS	201
NEW APARATUS AND EQUIPMENT	203
ENVIRONMENTAL PROTECTION	205

www.ache.org.yu/hi/

Sveska 9–10

Sveska 11–12

CONTENTS

Thomas Gamse, Industrial applications and current trends in supercritical fluid technologies (Plenary lecture)	207
Aleksandar Orlović, Dejan Skala, Materials processing using supercritical fluids (Review paper)	213
Dušan Ž. Mijin, Slobodan D. Petrović, Microwaves in organic chemistry and organic chemical technology (Review paper) ^a	224
Ana Marija Grancarić, Željko Penava, Anita Tarbuk, UV protection of cotton – the influence of weaving structure (Scientific paper)	230
Dragiša S. Savić, Nataša Joković, The impact of lactic acid bacteria on sourdough fermentation (Professional paper) ^a	235
Milan N. Sovilj, Branislava G. Barjaktarović, Kinetics of the extraction of pumpkin seed oil (<i>Cucurbita pepo</i> L.) by supercritical CO₂ (Scientific paper) ^a	238
Nada V. Aničić, Suzana Dimitrijević, Mihailo S. Ristić, Slobodan S. Petrović, Slobodan D. Petrović, Antimicrobial activity of essential oil of <i>Melissa officinalis</i> L., Lamiaceae (Scientific paper) ^a	243
Dragoљub Cvetković, Siniša Markov, Aleksandra Velićanski, Antimicrobial activity of kombucha made from Rtanj tea (Scientific paper) ^a	248
Vesna M. Novković, Zora Stoiljković, Mihajlo Z. Stanković, Determination of total lipids and characterization of marigold flower extracts (<i>Calendula officinalis</i>) (Scientific paper) ^a	254
Željka Marjanović–Balaban, Predrag Miletić, Influence of microwaves on the rate of the distillation and yield of etheric oil from the wooded greenery of conifers (Scientific paper) ^a	259
Ljubiša S. Vasić, Ivana B. Banković–Ilić, Miodrag L. Lazić, Vlada B. Veljković, Dejan U. Skala, Gas–holdup in a 16.6 cm i.d. reciprocating plate column (Scientific paper) ^a	263
Nedeljko Čegar, Jelena Penavin–Škundrić, Branko Škundrić, Rada Petrović, Catalytic conversion of ethanol on HY zeolite (Scientific paper) ^a	267
Milislav Lalović, Žarko Radović, Nada Jauković, Characteristics of heat flow in recuperative heat exchangers (Scientific paper)	270
Dragan M. Pejić, Dragan T. Stojiljković, Staniša T. Stojiljković, Maja Đurović Petrović, Nebojša Mitić, Geothermal heat exchanger with coaxial flow of fluids (Professional paper) ^a	275
Gordana Ilišić, Milorad Maksimović, Đorđe Vojnović, Coagulation and flocculation in the preparation of drinking water in a pilot plant (Scientific paper) ^a	279
BUSINESS NEWS ^a	285
SCIENCE AND TECHNOLOGY NEWS ^a	287
NEW APARATUS AND EQUIPMENT ^a	289
ENVIRONMENTAL PROTECTION ^a	291

^a In Serbian language

SADRŽAJ

Slobodan Jovanović, Predrag Živković, Dragoslav Stoiljković, Ambalaža od polimernih materijala (Pregledni rad)	293
Slobodan M. Jovanović, Aleksandra B. Nastasović, Enis S. Džunuzović, Katarina B. Jeremić, Iniciranje polimerizacije metilmetakrilata iniferterima na bazi ditiokarbamata (Naučni rad)	311
Milica M. Gvozdenović, Branimir N. Grgur, Zorica M. Kačarević–Popović, Vesna B. Mišković–Stanković, Koroziono ponašanje dvoslojne polianilin/epoksidne prevlake na mekom čeliku u 3% rastvoru NaCl (Naučni rad)	317
Marija Knežević, Lynne Katsikas, Ivanka G. Popović, Sinteza i karakterizacija 2–merkaptetil metakrilata (Scientific paper)	321
Gordana Marković, Milena Marinović–Cincović, Blaga Radovanović, Jaroslava Budinski–Simendić, Proučavanje hemijske interakcije hloosulfonovanog polietilena i nitrilnog kaučuka (Naučni rad)	324
Suzana Samaržija Jovanović, Vojislav Jovanović, Umrežavanje EPDM i NBR kaučuka (Naučni rad)	327
OSVEŽIMO NAŠE ZNANJE	
Dušan Ž. Mijin, Fotodegradacija sintetskih boja pomoću vidljive i sunčeve svetlosti (Stručni rad)	332
PRIVREDNE VESTI	339
TEHNOLOŠKE NOVOSTI	341
NOVI APARATI I UREĐAJI	343
ZAŠTITA OKOLINE	345
HEMIJSKA INDUSTRIJA – Vol. 59	347
INDEX AUTORA	350

CONTENTS

Slobodan Jovanović, Predrag Živković, Dragoslav Stoiljković, Packaging based on polymeric materials (Review paper)	293
Slobodan M. Jovanović, Aleksandra B. Nastasović, Enis S. Džunuzović, Katarina B. Jeremić, Initiation of MMA polymerization by iniferters based on dithiocarbamates (Scientific paper)	311
Milica M. Gvozdenović, Branimir N. Grgur, Zorica M. Kačarević–Popović, Vesna B. Mišković–Stanković, Corrosion behavior of duplex polyaniline/epoxy coating on mild steel in 3% NaCl (Scientific paper)	317
Marija Knežević, Lynne Katsikas, Ivanka G. Popović, The synthesis and characterisation of 2–mercaptoethyl methacrylate (Scientific paper)	321
Gordana Marković, Milena Marinović–Cincović, Blaga Radovanović, Jaroslava Budinski–Simendić, Studies of chemical interactions between chlorosulphonated polyethylene and nitrile rubber (Scientific paper)	324
Suzana Samaržija Jovanović, Vojislav Jovanović, The crosslinking of EPDM and NBR rubber (Scientific paper)	327
REFRESHMENT TOPICS	
Dušan Mijin, Photodegradation of synthetic dyes under visible and solar light (Professional paper)	332
BUSINESS NEWS	339
SCIENCE AND TECHNOLOGY NEWS	341
NEW APARATUS AND EQUIPMENT	343
ENVIRONMENTAL PROTECTION	345
CHEMICAL INDUSTRY – Vol. 59	347
AUTHOR INDEX	350