

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 (Salix alba) 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 (Salix alba) 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. Stoiljković, Staniša T. Stoiljković, 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 |