## CONTENTS

## Chemistry

Valentyn Serheyev, Yuriy Kos and Yuriy Van-Chin-Syan Thermodynamic Properties of Solutions of Ethacrylic Acid in Acetonitrile and Acetic Acid Oksana Krupka, Vitaliy Smokal, Sergey Studzinsky, Nikolay Davidenko and Angelina Biitseva Electro-Optical Properties in Thin Films of New Azobenzene Polymers Sangita Thorat, Milind Kulkarni and Gaurav Thorat	131 137
Controlled Synthesis of Nanosized Polyaniline <i>via</i> Unstirred, Liquid-Liquid Interfacial Polymerization Process Oleh Shevchuk, Udo Wagenknecht, Sven Wiessner, Natalya Bukartyk, Maxym Chobit and Viktor Tokarev	143
Flame-Retard Polymer Composites on the Basis of Modified Magnesium Hydroxide	149
Chemical Technology	
Eldar Zeynalov and Tofik Nagiev	
Enzymatic Catalysis of Hydrocarbons Oxidation "in vitro" (Review)	157
Gennadiy Kosnikov, Oleg Figovsky and Adnan Eldarkhanov	
Metal Matrix Micro- and Nanostructural Composites (Review)	165
Mykhailo Sharanda, Vladyslav Sontsev, Evgeniya Bondarenko and Volodymyr Brei	
Two-stage Conversion of Glycerol into Propylene Glycol over $Cu/Al_2O_3$ Catalyst	171
Artem Artyukhov and Vsevolod Sklabinskyi	
Theoretical Analysis of Granules Movement Hydrodynamics in the Vortex Granulators	475
of Ammonium Nitrate and Carbamide Production	175
Sofia Pinchuk, Elena Levko and Ievgen Domanskiy	
Structure and Characteristics of Composite Carbon-Ceramic Coatings	101
for Cathodes of Contemporary Chemical Current Sources Oksana Savvova and Elena Babich	181
Investigation of Phase Separation Processes for Bioactive Glasses	
in Na <sub>2</sub> O- CaO- ZnO- TiO <sub>2</sub> - ZrO <sub>2</sub> - Al <sub>2</sub> O <sub>3</sub> - B <sub>2</sub> O <sub>3</sub> - P <sub>2</sub> O <sub>5</sub> - SiO <sub>2</sub> Sysytem	187
Vitaliy Yatsyuk, Olena Pokryshko, Zoriana Yaniv, Galyna Tulaidan, Vitaliy Baranovskyi,	107
Sergiy Klymnyuk and Bogdan Grishchuk	
Synthesis and Antimicrobial Activity of Products Obtained <i>via</i> Anionarylation	
of Acrylic and Metahcrylic Acids Amides and Nitriles	
by 5- Carboxyphenylene-1,3- Bisdiazonium Salts	193
Volodymyr Levytskyj, Yuriy Laruk, Taras Humenetsky and Janusz Sikora	.,.
The Influence of Polystyrene Modifier and Plasticizer Nature	
on the Properties of Poly(vinyl chloride)	199
Kseniia Bystrevska, Valentina Pidlisnyuk and Stefan Aschenbrenner	
Research of the Radioactive and Physico-Chemical Characterisitcs of Thermal Ground Waters	
in the Slovak Republic and Transcarpathian Region, Ukraine	205
Priscila Ferreira de Oliveira and Maria de Fatima Vieira Marques	
Chemical Treatment of Natural Malva Fibers and Preparation	
of Green Composites with Poly(3- hydroxybutyrate)	211
Nasarullah Zulfareen, Kulanthi Kannan and Thiruvengadam Venugopal	
Innovative Method for Reduction of Mild Steel Corrosion in Water	
by Activated Carbon from Ocimum Tenuiflorum	223

Viktor Shevchenko and Galyna Kotsay	
Prospective of Glass Powder as Active Additive to Portland Cement	231
Oleksiy Sikorsky, Oleksiy Myronyuk and Valentyn Svidersky	
Rheological Behavior of Montmorillonite Water Suspensions in the Presence of Surfactants	237
Roland Nagy, Rubina Sallai, Laszlo Bartha and Arpad Vago	
Study on Solubility of Surfactants in Water by Fiber Optic Spectrophotometer	241
Iryna Halkevych, Liudas Ivanauskas, Yuriy Bidnychenko and Zita Barsteigiene	
High Performance Liquid Chromatographic Determination	
of Bupropion Using H-Clinoptilolite as a Sorbent for Plasma and Urine Purification	245
Oleksandr Buket, Olga Linyucheva, Oleksiy Nahorniy, Andriy Bludenko and Oleksandr Linyuchev	
Extending the Range of Amperometric Sensors	251
Sergyi Vdovenko, Sergyi Boichenko and Victoria Kochubei	
Composition and Properties of Petroleum Sludge Produced at the Refineries	257