

## CONTENTS

### Chemistry

---

<i>Valentyn Serheyev</i>	
The Enthalpy of Mixing of the Laurylmethacrylate with Some Organic Solvents	1
<i>Volodymyr Mazyuk and Volodymyr Shibanov</i>	
Effect of Substituent Geometrical Parameters on the Chemical Shifts of ortho- and meta-Protons in <sup>1</sup> H NMR-Spectra of Monosubstituted Benzenes	5
<i>Oleg Figovsky, Dmitry Pashin, Zufar Khalitov and Diana Valeeva</i>	
Crystallography of Coaxial and Scroll Nanotubes of Arbitrary Composition	19
<i>Maryan Lelyukh, Dmytro Havrylyuk and Roman Lesyk</i>	
Synthesis and Anticancer Activity of Isatin, Oxadiazole and 4-Thiazolidinone Based Conjugates	29
<i>Sergiy Mudryy, Viktor Reutskyy, Oleksandr Ivashchuk, Oleksandr Suprun and Volodymyr Ivasiv</i>	
Influence of Organic Additives on Catalysts of Liquid-Phase Cyclohexane Oxidation	37
<i>Andrey Bushuyev, Michael Keremet, Andrey Galstyan and Tatyana Galstyan</i>	
Kinetics and Products of 4-Aminotoluene Oxidation by Ozone in the Liquid Phase	43
<i>Eldar Zeynalov, Joerg Friedrich, Manfred Wagner and Gundula Hidde</i>	
Effect of Br-Grafted Multi-Walled Carbon Nanotubes on the Model Oxidative Environment	51
<i>Volodymyr Skorokhoda, Yuriy Melnyk, Natalia Semenyuk and Oleh Suberlyak</i>	
Obtaining Peculiarities and Properties of Polyvinylpyrrolidone Copolymers with Hydrophobic Vinyl Monomers	55
<i>Tetyana Rudenychyk, Rita Rozhnova, Volodymyr Shtompel, Natalia Galatenko and Svitlana Ostapuk</i>	
Research on Biodegradation of Epoxy- Polyurethane Composites Filled with Ferrocene in the Model Biological Medium	61
<i>Ostap Ivashkiv, Olena Astakhova, Olena Shyshchak, Marta Plonska-Brzezinska and Michael Bratychak</i>	
Structure and Application of ED-20 Epoxy Resin Hydroxy-Containing Derivatives in Bitumen-Polymeric Blends	69
<i>Esen Arkis, Hayrullah Cetinkaya, Isil Kurtulus, Utku Ulucan, Arda Aytac, Beste Balci, Funda Colak, Ece Germen, Gulistan Kutluay, Begum Dilhan and Devrim Balkose</i>	
Characterization of a Pearlescent Biaxially Oriented Multilayer Polypropylene Film	77

### Chemical Technology

---

<i>Vasyl Kolesnyk and Volodymyr Orlyk</i>	
Methods of Parameters Calculation for Wastes High-Temperature Plasma Processing	85
<i>Anzhela Tamazashvili and Iryna Makarenko</i>	
Evaluation of the Reducing Ability of Anion Exchange Resin AV-17-8 in the Sulphite Form	91
<i>Olexandr Pivovarov, Roman Zakharov and Mykola Nikolenko</i>	
Treatment of Aqueous Solutions of Sodium Chloride by Nonequilibrium Low Temperature Plasma	95
<i>Valeriy Ved', Leonid Tovazhnyanskiy, Yevgeniy Krasnokutskiy and Vadim Koshchiy</i>	
Modelling of Hydrocarbons Catalytic Conversion Process	101
<i>Vasyl Dyachok, Roman Dyachok, Olena Gaiduchok and Natalia Ilkiv</i>	
Mathematical Model of Mass Transfer from Lamina of the Leaf into Extractant	107
<i>Lyidmyla Bragina and Yuliya Sobol</i>	
Glass Coatings on the Basis of Na <sub>2</sub> O-B <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> System for Tin Bronze Protection During Melting	111
<i>Diana Saribekova, Alexandra Kunik, Ludmila Saleba, George Saribekov and Victoria Danchenko</i>	
Cationic Polymers as Fixer Preparations of Protective Finishing on Cotton Fabrics	119
<i>Oleksandr Liaposhchenko and Olha Nastenko</i>	
Analysis of the Conditions of Phase Equilibrium and Influence of the United Heat and Mass Transfer on the Effectiveness of Separation in the Inertial-Filtering Separator	125