

# CONTENTS

## Chemistry

<i>Georgiy Gladyshev and Mark Goldfein</i>	
Thermodynamics as a Base of Behaviour of Inanimate and Animate Nature	241
<i>Oksana Yezereska, Tymofiy Kalynyuk and Lyudmila Vronska</i>	
Quantitative Determination of Hydroxycinnamic Acids in Chicory Root	247
<i>Oleg Figovsky, Dmitry Pashin, Zufar Khalitov, Diana Valeeva and Andrey Chkanov</i>	
The Cylindrical Superlattices SnS/SnS <sub>2</sub> : Model of Structure and Diffraction	251
<i>Stepan Melnyk</i>	
Perfluorooxasulphonates of Metals — the Catalysts of Esters Manufacture	257
<i>Ananiy Kohut, Andriy Voronov and Stanislav Voronov</i>	
Monomolecular Micelles Based on Amphiphilic Invertible Polymers	261
<i>Iwona Zarzyka</i>	
Properties of Polyurethane Foams with Oxamide and Borate Groups	273
<i>Galyna Strap, Olena Astakhova, Olexander Lazorko, Oleh Shyshchak and Michael Bratychak</i>	
Modified Phenol-Formaldehyde Resins and their Application in Bitumen-Polymeric Mixtures	279
<i>Oleh Suberlyak, Oleksandr Grytsenko, Krystyna Hischak and Natalia Hnatchuk</i>	
Research of Influence of the Metal Nature on the Mechanism of Polyvinylpyrrolidone Metal Copolymers Synthesis	289

## Chemical Technology

<i>Marina Ramos, Ana Beltran, Arancha Valdes, Mercedes Peltzer, Alfonso Jimenez, Maria Garrigos and Gennady Zaikov</i>	
Active Packaging for Fresh Food Based on the Release of Carvacrol and Thymol	295
<i>Sergii Boichenko, Oksana Vovk and Anna Iakovlieva</i>	
Overview of Innovative Technologies for Aviation Fuels Production	305
<i>Victor Yavorskiy, Tamara Perekupko, Arkadiy Perekupko and Olga Basista</i>	
Technological and Economic Estimation of Acid Dissolution of Langbeinite Concentrate with Processing the Obtained Solutions in the Fertilizer	313
<i>Mohammad Al-Ameri, Oleh Grynshyn and Yuriy Khlibyshyn</i>	
Modification of Residual Bitumen from Orhovyt'ska Oil by Butonal Polymeric Latexes	323
<i>Serhiy Pysh'yev, Volodymyr Gunka, Olena Astakhova, Yuri Prysiashnyi and Michael Bratychak</i>	
Effect of Coal Quality on its Desulphurization. 2. Influence of the Inorganic Matter	327
<i>Galyna Kotsay</i>	
Effect of Synthetic Nanodispersed Silica on the Properties of Portland Cement Based Mortars	335
<i>Abdelhak Maghchiche, Abdelkarim Haouam and Barbara Immirzi</i>	
Extraction and Characterization of Algerian Alfa Grass Short Fibers ( <i>Stipa Tenacissima</i> )	339
<i>Pavlo Shapoval, Ruslana Guminilovych and Iosyp Yatchyshyn</i>	
The Conditions Effect of Obtaining CdS and CdSe Films on their Structural and Optical Properties	345
<i>Georgiy Lisachuk, Olena Fedorenko, Oleg Pitak, Lyubov Bilostotska, Yulia Trusova, Lyudmila Pavlova and Kateryna Dajneko</i>	
Theoretical Background of Alkaline-Free Tin Content Coatings on Ceramics in the System RO-SnO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub>	351
<i>Myroslav Malyovannyi, Galina Sakalova, Natalia Chornomaz and Oleh Nahurskyy</i>	
Water Sorption Purification from Ammonium Pollution	355
<i>Volodymyr Shmalko, Oleg Zelensky and Maryan Rudkevich</i>	
Technogenic Nanoparticles from Coal Carbonization Products	359

## Events

<i>Gennady Zaikov and Larisa Madyuskina</i>	
Technology Transfer for New Products Development	I