

## CONTENTS

### *Physical Chemistry*

- Lina MIKOLIŪNAITĖ, Reda KUBILIŪTĖ, Anton POPOV, Jaroslav VORONOVICH, Simas ŠAKIRZANOVAS, Almira RAMANAČIENĖ, Arūnas RAMANAČIUS.** Development of gold nanoparticle-polypyrrole nanocomposites..... 63

### *Electrochemistry*

- Tomas VENGRIS, Arvydas STONČIUS, Romas RAGAUSKAS, Rima BINKIENĖ, Asta JUDŽENTIENĖ.** Anodic oxidation of wood painting wastewater on boron-doped diamond electrodes..... 70

### *Inorganic Chemistry*

- R. P. POGORILYI, Yu. L. ZUB, A. BEGANSKIENĖ, A. KAREIVA.** Immobilization of urease on mesoporous materials such as SBA-15 with a functional surface layer..... 75
- L. DABARE, R. SVINKA.** Characterization of porous ceramic pellets from Latvian clays..... 82
- Kristina JANČAITIENĖ, Rasa ŠLINKŠIENĖ.** Influence of the molar ratio of basic materials and temperature on production of potassium dihydrophosphate..... 89
- Arūnas KLEIŠMANTAS.** The dependence of emeralds and chromaquamarines colours on chemical elements..... 96

### *Analytical Chemistry*

- Lukas TAUJENIS, Vilma OLŠAUSKAITĖ, Inga VALASINAVIČIŪTĖ, Audrius PADARAUSKAS.** Identification of  $\alpha$ -amino acids by hydrophilic interaction chromatography-tandem mass spectrometry in fertilizers..... 101

### *Organic Chemistry*

- Irmantas PARAŠOTAS, Kazimieras ANUSEVIČIUS, Ilona JONUŠKIENĖ, Vytautas MICKEVIČIUS.** Synthesis and antibacterial activity of *N*-carboxyethyl-*N*-(4-hydroxyphenyl)-2-aminothiazoles and dihydrothiazolones..... 107
- Jonita STANKEVIČIŪTĖ, Bogumila KURTINAITIENĖ, Rasa STANKEVIČIŪTĖ, Rita MEŠKIENĖ, Renata GASPARAVIČIŪTĖ, Liucija MARCINKEVIČIENĖ, Valdas LAURINAVIČIUS, Rolandas MEŠKYS.** Prussian Blue as an alternative to catalase: a bioelectrocatalytic system for production of dihydroxyacetone phosphate ..... 115
- Marytė KAŽEMĖKAITĖ, Zita TALAİKYTĖ, Eugenijus BUTKUS, Valdemaras RAZUMAS.** Synthesis and enzymatic resolution of methyl ferrocenylpentanoate using *Thermomyces lanuginosus* lipase for construction of ferrocene alkyl thiols..... 119

### *Polymer Chemistry*

- Jonas MATULEVIČIUS, Linas KLIUČININKAS, Dainius MARTUZEVIČIUS.** Electrospinning of cellulose acetate fibers from a ternary solvent system..... 125