

CONTENTS

Physical Chemistry

- Andrius JASKŪNAS, Benas SUBAČIUS, Rasa ŠLINKŠIENĖ.** Adsorption of potassium ions on natural zeolite: kinetic and equilibrium studies 69

Electrochemistry

- R. GARJONYTĖ, V. MELVYDAS, A. MALINAUSKAS.** Yeast-modified electrodes as amperometric biosensors for glycerophosphate 79

Inorganic Chemistry

- Justina PILECKAITĖ, Virginija VALANČIENĖ, Algirdas MINIKAUSKAS, Gintaras DENAFAS.** Chromium containing sludge from metal surface treatment processes: stabilization in a ceramic body 84
- N. PETRAŠAUSKIENĖ, R. STOKIENĖ, S. ŽALENKIENĖ, V. JANICKIS.** Formation of cobalt sulfide layers on polyamide 6 by sorption-diffusion method using solutions of dodecathionic acid, $H_2S_{12}O_6$ 93

Analytical Chemistry

- Bronius BUCKUS, Gintautas BRIMAS, Algimantas STAŠINSKAS, Aurelija SMALENSKAITĖ, Stasys TAUTKUS, Aldona BEGANSKIENĖ, Aivaras KARREIVA.** Analytical characterization of adipose tissue structure and composition: A novel approach towards diagnosis of metabolic disturbances in human body..... 98
- Lukas TAUJENIS, Audrius PADARAUSKAS, Jovita MIKALIŪNIENĖ, Jurgita CESEVIČIENĖ, Nijolė LEMEŽIENĖ, Bronislava BUTKUTĖ.** Identification of isoflavones and their conjugates in red clover by liquid chromatography coupled with DAD and MS detectors..... 107

Organic Chemistry

- S. CHORNAJA, S. ZHIZHKUN, K. DUBENCOVS, O. STEPANOVA, E. SPROGE, V. KAMPARS, L. KULIKOVA, V. SERGA, A. CVETKOV, E. PALCEVSKIS.** New methods of glyceric and lactic acid production by catalytic oxidation of glycerol. New method of synthesis of a catalyst with enhanced activity and selectivity..... 113
- Daiva TAURAITĖ, Julija DABUŽINSKAITĖ, Rytis RAŽANAS, Jaunius URBONAVIČIUS, Jonita STANKEVIČIŪTĖ, Saulius SERVA, Rolandas MEŠKYS.** Synthesis of novel derivatives of 5-carboxyuracil 120
- Jonas BUCEVIČIUS, Sigitas TUMKEVIČIUS.** 2,4-Diazidopyrrolo[2,3-*d*]pyrimidines: synthesis, ring-chain tautomerism and Cu(I)-catalyzed azide-alkyne cycloaddition reaction 126

Polymer Chemistry

- Antanas STRAKŠYS, Tatjana KOCHANĖ, Saulutė BUDRIENĖ.** Preparation and characterization of porous poly(urethane-urea) microparticles from poly(vinyl alcohol) and isophorone diisocyanate 132