

## CONTENTS

**Organic Chemistry and Biochemistry**

- Y. Vaghasiya, R. Nair, M. Soni, S. Baluja and S. Shanda*: Synthesis, structural determination and antibacterial activity of compounds derived from vanillin and 4-aminoantipyrine ..... 991
- A. Nićiforović, M. B. Radojčić and B. H. Milosavljević*: Gamma-radiation induced agglomeration of chicken muscle myosin and actine ..... 999
- R. M. Radojčić, S. D. Spasić, Z. S. Saičić, T. B. Jovanović and J. B. Simić-Krstić*: Superoxide dismutase activity as a function of culture aging of B-16 mouse melanoma cells (Preliminary communication) ..... 1005

**Polymers**

- D. Jovanović, M. S. Nikolić and J. Djonlagić*: Synthesis and characterization of biodegradable aliphatic copolyesters with hydrophilic soft segments ..... 1013
- Z. Kačarević-Popović, D. Kostoski, Lj. Novaković, N. Miljević and B. Šećerov*: Influence of the irradiation conditions on the effect of radiation on polyethylene ..... 1029
- G. Ilia, E. Fagadar-Cosma, A. Popa and S. Iliesku*: Styrene-divinylbenzene copolymer grafted with phosphonic acid dialkyl esters ..... 1043

**Inorganic Chemistry**

- J. Husárek, R. Pstorek, M. Maloň, Z. Šindalář and M. Pavlíček*: Nicke(II) cyclohexylethyl-dithiocarbamate P-donor ligands in the coordination sphere ..... 1053

**Physical Chemistry**

- Ž. N. Todorović and S. K. Milonjić*: Determination of intrinsic equilibrium constants at alumina/electrolyte interface ..... 1063
- J. M. Resa, C. Gonzáles, J. M. Goenaga and M. Iglesias*: Influence of temperature on the volumetric properties of ethanol + water + 1-pentanol ..... 1073

**Electrochemistry**

- D. M. Dražić, J. P. Popić, B. Jegdić and D. Vasiljević-Radović*: Electrochemistry of active chromium. Part IV. Dissolution of chromium in deaerated sulfuric acid ..... 1099

**Materials**

- Z. Odanović and M. Djurdjević*: Investigation of the mechanism of mercury removal from silver-amalgam alloy ..... 1111
- A. Golubović, S. Nikolić, S. Djurić and N. Romčević*:  $\text{Pb}_{1-x}\text{Mn}_x\text{Te}$  single crystals and their structural properties ..... 1121

**Chemical Engineering**

- Ž. Lj. Arsenijević, Ž. B. Grbavčić and B. V. Grbić*: Modeling of adsorber/desorber/catalytic reactor system for ethylene oxide removal ..... 1129

**Environmental Chemistry**

- A. Savin, D. Veselinović and D. Marković*: The correlation of the values of plant-available lead and cadmium in soil determined using different types of extragents ..... 1145
- M. Radenković, T. Andjelić, M. Kovačević and P. Vukotić*: Depleted uranium in the air during the cleanup operation at Cape Arza ..... 1153
- Contents of Volume 69 ..... 1157
- Subject index ..... 1165
- Author index ..... 1169