



CONTENTS

Organic Chemistry

- B. Jović, A. Nikolić, E. Davidović and S. Petrović: N–H···O hydrogen bonding. An FT-IR, NIR study of *N*-methylformamide–ether systems 157
- M. A. Hussain, D. Shahwar, M. N. Tahir, M. Sher, M. N. Hassan and Z. Afzal: An efficient acetylation of dextran using *in situ* activated acetic anhydride with iodine 165

Biochemistry and Biotechnology

- K. Pithawala, N. Mishra and A. Bahadur: Immobilization of urease in alginate, paraffin and lac 175
- V. Leskovic, S. Trivić, D. Peričin, M. Popović and J. Kandrač: Binding of coenzymes to yeast alcohol dehydrogenase 185
- J. Filipović, N. Filipović and V. Filipović: The effects of commercial fibres on frozen bread dough 195
- D. N. Olennikov, L. V. Dudareva, S. N. Osipenko and T. A. Penzina: Chemical composition of *Rhododendron aureum* (gold rosebay) essential oil from Pribaikal'e (Russian Federation) 209

Inorganic Chemistry

- D. Singh, K. Kumar, R. Kumar and J. Singh: Template synthesis and characterization of biologically active transition metal complexes comprising 14-membered tetraaza-macrocyclic ligand 217
- A. Kriza, L. V. Ababei, N. Cioatera, I. Rău and N. Stănică: Synthesis and structural studies of complexes of Cu, Co, Ni and Zn with isonicotinic acid hydrazide and isonicotinic acid (1-naphthylmethylene)hydrazide 229

Theoretical Chemistry

- S. Špirtović-Halilović and D. Završnik: Computer programs for calculating pK_a : a comparative study for 3-(3-(2-nitrophenyl)prop-2-enyl)-2*H*-1-benzopyran-2-one 243

Physical Chemistry

- K. Wang and P. Zhong: A kinetic study of CO oxidation over the perovskite-like oxide LaSrNiO₄ 249
- J. Xu, G. Liang, L. Wang, W. Xu, W. Cui, H. Zhang and Z. Li: DFT Studies on the electronic structures of indoline dyes for dye-sensitized solar cells 259

Electrochemistry

- Z. J. Lin, X. B. Hu, Y. J. Huai and Z. H. Deng: Preparation and characterization of a new carbonaceous material for electrochemical systems 271

Thermodynamics

- I. R. Radović, M. Lj. Kijevčanin, A. Ž. Tasić, B. D. Djordjević and S. P. Šerbanović: Derived thermodynamic properties of alcohol + cyclohexylamine mixtures 283
- Errata 295

Published by the Serbian Chemical Society
Karnegijeva 4/III, 11000 Belgrade, Serbia
Printed by the Faculty of Technology and Metallurgy
Karnegijeva 4, P.O. Box 35-03, 11120 Belgrade, Serbia