



CONTENTS

Organic Chemistry

- N. Trišović, B. Božić, A. Obradović, O. Stefanović, S. Marković, Lj. Čomić, B. Božić and G. Ušćumlić*: Structure–activity relationships of 3-substituted-5,5-diphenylhydantoin derivatives as potential antiproliferative and antimicrobial agents 1597
- X. S. Zhou, J. B. Liu, W. F. Luo, Y. W. Zhang and H. Song*: Novel Brønsted-acidic ionic liquids based on benzothiazolium cations as catalysts for esterification reactions 1607

Biochemistry and Biotechnology

- M. M. Alam, D. P. Sarkar, A. Husain, A. Marella, M. Shaquiquzzaman, M. Akhter, M. Shaharyar, O. Alam and F. Azam*: Synthesis of quinoline-attached furan-2(3*H*)-ones having anti-inflammatory and antibacterial properties with reduced gastro-intestinal toxicity and lipid peroxidation 1617
- P. A. Azar, M. Nekoei, K. Larijani and S. Bahraminasab*: Chemical composition of the essential oils of *Citrus sinensis* cv. *Valencia* and a quantitative structure–retention relationship study for the prediction of retention indices by multiple linear regression 1627

Inorganic Chemistry

- B. Cristóvão*: Spectral, thermal and magnetic properties of Cu(II) and Ni(II) complexes with Schiff base ligands 1639

Theoretical Chemistry

- M. Etinski*: The role of Duschinsky rotation in intersystem crossing: a case study of uracil 1649

Physical Chemistry

- M. S. Hadnađev-Kostić, T. J. Vulić, R. P. Marinković-Nedučin, A. D. Nikolić and B. Jović*: Mg–Fe-mixed oxides derived from layered double hydroxides: a study of the surface properties 1661

Electrochemistry

- S. Stevanović, D. Tripković, D. Poletić, J. Rogan, A. Tripković and V. M. Jovanović*: Microwave synthesis and characterization of Pt and Pt–Rh–Sn electrocatalysts for ethanol oxidation 1673

Analytical Chemistry

- B. Damnjanović, B. Petrović, J. Dimitrić-Marković and M. Petković*: Comparison of MALDI-TOF mass spectra of [PdCl(dien)]Cl and [Ru(en)₂Cl₂]Cl acquired with different matrices 1687

Polymers

- M. V. Pergal, V. V. Antić, S. Ostojić, M. Marinović-Cincović and J. Djonlagić*: Influence of the content of hard segments on the properties of novel urethane–siloxane copolymers based on a poly(ϵ -caprolactone)-*b*-poly(dimethylsiloxane)-*b*-poly(ϵ -caprolactone) triblock copolymer 1703

Environmental

- S. Stanković, M. Jović, R. Milanov and D. Joksimović*: Trace elements concentrations (Zn, Cu, Pb, Cd, As and Hg) in the Mediterranean mussel (*Mytilus galloprovincialis*) and evaluation of mussel quality and possible human health risk from cultivated and wild sites of the southeastern Adriatic Sea, Montenegro 1725

Erratum 1739

Contents of Volume 76 1743

Author index 1753

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

Available online at www.shd.org.rs/JSCS