

ISSN 0352-5139

*J. Serb. Chem. Soc.* Vol. 72, No. 10 (2007)

CONTENTS

**Organic Chemistry and Biochemistry**

D. Malešev and V. Kuntić: Investigation of metal–flavonoid chelates and the determination of flavonoids via metal–flavonoid complexing reactions.....	921
R. Ozen and N. S. Kus: A mild and effective method for the conversion of alkenes into alcohols in subcritical water (Short communication) .....	941
A. Nićiforović, M. Adžić, S. D. Spasić and M. B. Radojičić: Do altered activities of superoxide dismutases and the level of NF-κB modulate the effects of gamma radiation in HeLaS3 cells?....	945
S. Kevrešan, B. Kovačević, V. Ćirin-Novta, K. Kuhajda, J. Kandrač, K. Pavlović and Lj. Grbović: Biochemical changes in cuttings of <i>Robinia pseudoacacia</i> after treatment with naphthenate ...	953
C. Capetanos, V. Saroglou, P. D. Marin, A. Simić and H. D. Skaltsa: Essential oil analysis of two endemic <i>Eryngium</i> species from Serbia .....	961

**Theoretical Chemistry**

I. Gutman: The McClelland approximation and the distribution of $\pi$ -electron molecular orbital energy levels .....	967
---	-----

**Inorganic Chemistry**

S. S. Konstantinović, B. C. Radovanović, Z. B. Todorović and S. B. Ilić: Spectrophotometric study of Co(II), Ni(II), Cu(II), Zn(II), Pd(II) and Hg(II) complexes with isatin- $\beta$ -thiosemicarbazone.....	975
N. Raman and S. Johnson Raja: DNA cleavage, structural elucidation and anti-microbial studies of three novel mixed ligand Schiff base complexes of copper(II).....	983

**Electrochemistry**

R. E. Sabzi, A. Hasanzadeh, K. Ghasemlu and P. Heravi: Preparation and characterization of carbon paste electrode modified with tin and hexacyanoferrate ions .....	993
E. Biçer and E. Coşkun: Voltammetric study of the interaction between oxacillin sodium and cysteine in the presence and absence of Mn(II) ions in neutral buffer solution.....	1003

**Chemical Engineering**

E. Djordjević, S. Kabelac and S. Šerbanović: Pressure drop during evaporation of 1,1,1,2-tetrafluoroethane (R-134a) in a plate heat exchanger.....	1015
--	------

**Materials**

J. Dostanić, G. Ušćumlić, T. Volkov-Husović, R. Jančić-Heinemann and D. Mijin: The use of image analysis for the study of interfacial bonding in solid composite propellant.....	1023
--	------

**Environmental Chemistry**

V. Pitschmann, Z. Kobliha, E. Halámková and I. Tušarová: A simple <i>in situ</i> visual and tristimulus colorimetric method for the determination of diphosgene in air.....	1031
---	------

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