

Contents of volume 67

NUMBER 1

Organic Chemistry

G. Četković, S. Lajić, M. Popsavin, V. Popsavin and D. Miljković: An efficient <i>de novo</i> synthesis of 3'-deoxythymidine from D-xylose	1
M. Milovanović, K. Picurić-Jovanović, V. Djermanović and M. Stefanović: Antioxidant activities of the constituents of <i>Picris echoides</i>	7
H. R. Maradiya and V. S. Patel: Thiophene based monoazo disperse dyes for polyester fabric	17
A. Šmelcerović, M. Schiebel and S. Djordjević: The isolation of (6S, 9S)-cyclo (prolylvalyl) from marine actinomycete, by use of high speed countercurrent chromatography (Note)	27

Physical Chemistry

S. Gasić, B. Jovanović and S. Jovanović: The stability of emulsions in the presence of additives.....	31
R. K. Singh and P. M. Dhadke: Extraction and separation studies of zinc(II) and copper(II) with D2EHPA and PC-88A from perchlorate media.....	41
Lj. M. Igjarić, J. M. Dimitrić Marković, D. A. Marković and J. M. Baranac: The spectro-absorptometric and voltammetric behavior of malvin in buffered solutions and its antioxidant properties	53

Electrochemistry

K. I. Popov, Lj. J. Pavlović, E. R. Ivanović, V. Radmilović and M. G. Pavlović: The effect of reversing current deposition on the apparent density of electrolytic copper powder.....	61
---	----

NUMBER 2

Organic Chemistry

M. S. Bjelaković, V. D. Pavlović and Lj. B. Lorenc: Hydride reduction of B-norcholestan-5 α ,6 α -epoxide	69
G. S. Ućumlić, J. B. Nikolić and V. V. Krstić: The reactivity of α,β -unsaturated carboxylic acids. Part XVI. The kinetics of the reaction of cycloalkenecarboxylic and cycloalkenylacetic acids with diazodiphenylmethane in various alcohols	77

Physical Chemistry

I. Gutman, D. Vidović and A. Nedić: Ordering of alkane isomers by means of connectivity indices	87
I. Gutman: Two theorems on connectivity indices.....	99

<i>Lj. Jelisavac and M. Filipović: A kinetic model for the consumption of stabilizer in single base gun propellants.....</i>	103
<i>A.N. Pankratov and I. M. Uchaeva: Protonation site for anilines in aqueous media (Note).....</i>	111
Inorganic Chemistry	
<i>S. R. Trifunović, Z. Marković, D. Sladić, K. Andjelković, T. Sabo and D. Minić: The synthesis and characterization of nickel(II) and copper(II) complexes with the polydentate dialkyl dithiocarbamic acid ligand 3-dithiocarboxy-3-aza-5-aminopentanoate.....</i>	115
<i>G.N. Kaludjerović, V. M. Djinović, S. R. Trifunović, I. M. Hodžić and T. J. Sabo: Synthesis and characterization of tris[butyl-(1-methyl-3-phenyl-propyl)-dithiocarbamate]cobalt(III) seskvitoluen (Note)</i>	123
<i>D. S. Gavrilovski, N. S. Blagojević, M. P. Gavrilovski and S. R. Grujić: Glass-ceramic enamels derived from the Li₂O-Na₂O-Al₂O₃-TiO₂-SiO₂ system.....</i>	127
<i>D. S. Gavrilovski, N. S. Blagojević and M. P. Gavrilovski: Modelling glass-ceramic enamel properties</i>	135

NUMBER 3

Organic Chemistry and Biochemistry

<i>A. Ivković, R. Matović and R. Saičić: Intramolecular Barbier reaction in water: cyclopentane and cyclohexane ring closure.....</i>	141
<i>M. Petković, J. Schiller, M. Müller, K. Arnold and J. Arnold: Investigations of the lysophospholipid composition of human neutrophils under different stimulation conditions by matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry</i>	149

Physical Chemistry

<i>A. E. Onjia, S. K. Milonjić and Lj. V. Rajaković: Inverse gas chromatography of chromia. Part II. Finite surface coverage.....</i>	165
<i>T. J. Janjić, G. Vučković and M. B. Čelap: Theoretical consideration and application of the SP and SP' scales in RP chromatographic systems in which Everett's equation is valid.....</i>	179
<i>L. B. Pfenđt, G. V. Popović, T. Ž. Damjanović and D. M. Sladić: Protolytic equilibria of bromazepam ..</i>	187
<i>D. Vučelić, D. Simić, O. Kovačević, M. Dojčinović and M. Mitrović: The effects of grinding on the physico-chemical characteristics of white sepiolite from Golešh</i>	197

Analytical Chemistry

<i>B. M. Kalićanin, N. J. Marjanović and Z. J. Suturović: Application of potentiometric stripping analysis with constant inverse current in the analytic step for determining lead in glassware.....</i>	205
--	-----

NUMBER 4

Organic Chemistry

<i>G. Lalić, D. Galonić, R. Matović and R. N. Saičić: A model study of epothilone synthesis: an alternative synthetic approach to the C1-C7 fragment</i>	221
--	-----

Inorganic Chemistry

<i>R. N. Prasad, M. Agrawal and M. Sharma: Mixed ligand complexes of alkaline earth metals: Part XII. Mg(II), Ca(II), Sr(II) and Ba(II) complexes with 5-chlorosalicylaldehyde and salicylaldehyde or hydroxyaromatic ketones</i>	229
---	-----

<i>D. D. Stamenović and S. R. Trifunović: The synthesis and characterization of facial and meridional isomers of <i>uns-cis</i>-(ethylenediamine-<i>N,N'</i>-di-3-propionato)cobalt(III) complexes with <i>S</i>-lysine and <i>S</i>-histidine</i>	235
<i>H. S. M. Seleem, M. El-Beairy, M. M. Massahy and H. H. Mena: Thermodynamics of complexation of isatin-3-thiosemicarbazone (HIT) and other related derivatives with some metal ions ..</i>	243
Physical Chemistry	
<i>M. F. Cheng, H. O. Ho, C. S. Lam and W. K. Li: Heats of formation for the azine series: A Gaussian-3 study</i>	257
<i>D. V. Koladkar and P. M. Dhadke: Solvent extraction of Sc(III) from sulfuric acid solution by bis(2-ethylhexyl) phosphonic acid in toluene.....</i>	265
Electrochemistry	
<i>K. I. Popov, S. M. Pešić and P. M. Živković: The current distribution in an electrochemical cell. Part VII. Concluding remarks.....</i>	273
Materials	
<i>A. Golubović, S. Nikolić, R. Gajić, S. Djurić and A. Valčić: The growth and optical properties of Bi₁₂SiO₂₀ single crystals</i>	279
<i>A. Golubović, S. Nikolić, R. Gajić, S. Djurić and A. Valčić: The growth of Nd:YAG single crystals ..</i>	291
<i>In memoriam: Ernest B. Yeager</i>	301
<i>Errata.....</i>	303

NUMBER 5

Electrochemistry	
<i>V. B. Mišković-Stanković: The mechanism of cathodic electrodeposition of epoxy coatings and the corrosion behaviour of the electrodeposited coatings (Review)</i>	305
Organic Chemistry	
<i>Lj. Krstić, S. Sukdolak and S. Solujić: An efficient synthesis of warfarin acetals on montmorillonite clay K-10 with microwaves.....</i>	325
<i>I. Baričević, Lj. Vičovac, V. Marinović and M. Čuperlović: Investigations of asialoglycoprotein receptor glycosylation by lectin affinity methods.....</i>	331
Physical Chemistry	
<i>A. N. Pankratov: Thermodynamic properties of cadmium compounds from quantum chemical evaluations</i>	339
<i>S. Marković, N. Rakićević and Dj. Mišljenović: The temperature dependence of the disproportionation reaction of iodous acid in aqueous sulfuric acid solutions</i>	347
<i>P. I. Premović and K. I. Panov: Cometary impacts into ocean: thermodynamical equilibrium calculations of high-temperature O₂ generation on the early Earth.....</i>	353
Inorganic Chemistry	
<i>V. M. Djinović and T. J. Sabo: Preparation and characterization of facial and meridional isomers of <i>uns-cis</i>-(ethylenediamine-<i>N,N'</i>-di-3-propionato)(<i>S</i>-arginine)cobalt(III) chloride dihydrate</i>	367

NUMBER 6

Organic Chemistry

- V. D. Janković, D. Ž. Mijin and S. D. Petrović*: Alkylation of *N*-substituted 2-phenylacetamides: Benzoylation of *N*-(4-nitrophenyl)-2-phenylacetamide 373
- R. M. Galvin, J. M. R. Mellado and M. J. Higuera*: Reductive deactivation of some s-triazine herbicides: prometryne, desmetryne and terbutryne..... 381
- J. Jovanović, M. Spiteller and W. Elling*: Indene dimerization products 393

Physical Chemistry

- I. Gutman, D. Vidović and D. Stevanović*: Chemical applications of the Laplacian spectrum. VI. On the largest Laplacian eigenvalue of alkanes 407
- P. M. Nikolić, K. Radulović, D. Vasiljević-Radović, V. Blagojević, B. Milosavljević and Z. Dohčević-Mitrović*: Far-infrared spectroscopy of PbTe doped with iron 415

Electrochemistry

- H. Ma, S. Chen, C. Yang and J. Luo*: Comparison of the influence of nitrate ions on the electrochemical behaviour of iron and carbon steels in sulphate solutions 425
- N. D. Nikolić, Z. Rakočević, D. R. Djurović and K. I. Popov*: Reflection and structural characteristics of semi-bright and mirror bright nickel coatings..... 437
- P. M. Živković, S. Jovanović, N. M. Ilić and K. I. Popov*: The influence of electroless plated chromium on printing properties of aluminium offset printing plate 445

Chemical Engineering

- A. A. Šmelcerović, S. M. Djordjević, Ž. D. Lepojević and D. T. Veličković*: The analysis of the kinetics of extraction of resinoids and hypericines from the amber, *Hypericum perforatum* L. 457

NUMBER 7

Organic Chemistry

- D. Oksenica, G. Pocsfalvi, W. K. Milhous and B. Šolaja*: Antimalarial peroxides: the first intramolecular 1,2,4,5-tetraoxane..... 465
- H. Çelik*: Synthesis of monoketo and monohydroxy eicosanoic acids and esters with substituents at odd-numbered (3-13) carbons 473

Physical Chemistry

- T. J. Janjić, G. Vučković and M. B. Čelap*: Influence of the stationary and mobile phase composition on solvent strength parameter ϵ° and *SP* system parameter in NP column chromatography 481
- M. Radojević, V. Jović and D. Vitorović*: Study of sepiolite from Goleš (Kosovo, Yugoslavia). I. Sorption capacity 489
- M. Radojević, V. Jović, D. Karaulić and D. Vitorović*: Study of sepiolite from Goleš (Kosovo, Yugoslavia). II. Acid activation 499
- R. K. Singh and P. M. Dhadke*: Extraction and separation of titanium(IV) with D2EHPA and PC-88A from aqueous perchloric acid solutions 507

Inorganic Chemistry

- R. N. Prasad and S. Gupta*: Synthesis and characterization of 2,3,13,14-tetramethyl (ethyl or *p*-tolyl)-1,4,12,15-tetraazacyclodocosa-1,3,12,14-tetraene complexes of Mg(II), Ca(II), Sr(II) and Ba(II) 523

Electrochemistry

- V. D. Jović and B. M. Jović*: Surface reconstruction during the adsorption/desorption of OH⁻ species onto Cu(111) and Cu(100) in 0.1 M NaOH solution 531

NUMBER 8-9

Organic Chemistry and Biochemistry

- T. Božić, D. Sladić, M. Zlatović, I. Novaković, S. Trifunović and M. J. Gašić*: Regioselectivity of conjugate additions to monoalkyl-1,4-benzoquinones 547
- B. Jovančičević, H. Wehner, G. Scheeder, K. Stojanović, A. Šainović, O. Cvetković, M. Ercegović and D. Vitorović*: Search for source rocks of the crude oils of the Drmno depression (southern part of the Pannonian Basin, Serbia) 553
- T. D. Ćirković, M. Dj. Gavrović-Jankulović, M. N. Bukilica, Lj. Mandić, S. Ž. Petrović and R. M. Jankov*: Isolation and partial characterization of an acid phosphatase from *Artemisia vulgaris* pollen extract 567
- D. Djokić, D. Janković and T. Maksin*: Radiochemical purity and particles number determinations of modified ^{99m}Tc-macroaggregated albumin 573

Physical Chemistry

- I. R. Grigurić, A. Ž. Tasić, B. D. Djordjević, M. Lj. Kijevčanin and S. P. Šerbanović*: Excess molar volume of the acetonitrile+methanol, +ethanol systems 581
- S. Dragović, S. Stanković and O. Nedić*: Desorption of ¹³⁷Cs⁺ from mosses 587

Inorganic Chemistry

- E. A. Kassab, M. I. Marzouk and M. El-Hashash*: Substituted ferrocenes: Synthesis and correlation of their electronic spectra with structure (LFER) 593
- B. Bocian and W. Ferenc*: Magnetic, thermal and spectroscopic properties of 5-chloro-2-methoxybenzoates of Mn(II), Co(II), Ni(II), Cu(II) and Zn(II) 605
- I. Rosca, D. Sutiman, M. Vizitiu, D. Sibiescu, A. Cailean and L. Oprea*: Coordination polymers of Fe(III) with ligands derived from dinaphthyl-, dinaphthylthio-, and dinaphthylthiophosphinic acids (Short communication) 617
- J. B. Bajat, M. D. Maksimović and G. R. Radović*: Electrochemical deposition and characterization of zinc-nickel alloys deposited by direct and pulse current 625
- K. I. Popov, N. D. Nikolić and Z. Rakočević*: An estimation of the interfacial energy of the copper-copper sulphate solution interface and of the specific surface of copper powder (Preliminary Communication) 635

NUMBER 10

Organic Chemistry

- D. T. Veličković, N. V. Randjelović, M. S. Ristić, A. A. Šmelcerović and A. S. Veličković: Chemical composition and antimicrobial action of the ethanol extracts of *Salvia pratensis* L., *Salvia glutinosa* L. and *Salvia aethiopis* L. (Short communication) 639

Physical Chemistry

- E. A. Castro, I. Gutman D. Maripio and P. Perazzo: Upgrading the Wiener Index 647
- S. Guoxin, C. Yu, J. Runtian, X. Rongqi and S. Sixue: Extraction of Tb(III) with *N,N,N',N'*-tetrabutylmalonamide 653

Analytical Chemistry

- S. S. Mitić and V. V. Živanović: A kinetic method for the determination of phenol 661
- Z. Moldovan and E. A. Neagiu: Spectrophotometric determination of trace iron(III) in natural water after its preconcentration with a chelating resin 669

Inorganic Chemistry

- G. Vičkov, M. Antonijević and D. Poletti: Cu(II) complexes with a pendant octaazamacrocyclic and μ -bonded aromatic carboxylates 677

Electrochemistry

- C. T. Wang, S. H. Chen, H. Y. Ma and N. X. Wang: Study of the stability of self-assembled *N*-vinylcarbazole monolayers to protect copper against corrosion 685

Materials

- S. M. Tomović-Petrović, S. V. Marković and S. Zec: The effect of boron on the amount and type of carbides in chromium white irons 697

NUMBER 11

Organic Chemistry

- H. R. Maradiva: Monoazo disperse dyes based on 2-amino-1,3,4-thiadiazole derivatives 709
- V. H. Patel, M. P. Patel and R. G. Patel: Disperse dyes based on 2-methyl-3-[3'-amino-phthalimido]-4(3H)-quinazolinone 719
- V. J. Patel, M. P. Patel and R. G. Patel: Synthesis and application of novel heterocyclic dyes based on 11-amino-13H-acenaphtho[1,2-c]pyridazino[3,2-b]-quinazoline-13-one 727

Inorganic Chemistry

- Lj. Čučković, I. M. Hodžić and S. R. Niketić: Computational study of the chromatographic enantioseparation of tris(acetylacetonato)cobalt(III) complexes on an arginine complex of cobalt(III) acting as a chiral selector 735

Physical Chemistry

- A. Onjia, T. Vasiljević, Dj. Čokeša and M. Laušević: Factorial design in isocratic high-performance liquid chromatography of phenolic compounds 745

<i>L. Filipović-Petrović, Lj. Kostić-Gvozdenović and S. Erić-Antonić: The effects of fine grinding on the physicochemical properties and thermal behavior of bentonite clay</i>	753
<i>A. R. Perić-Grujić, O. M. Nešković, M. V. Veljković, M. D. Laušević and Z. Laužević: TPD-MS study of glassy carbon surfaces oxidized by CO₂ and O₂</i>	761
Electrochemistry	
<i>K. I. Popov, N. D. Nikolić and Z. Rakočević: The estimation of solid copper surface tension in copper sulfate solutions</i>	769
<i>D. M. Dražić and J. P. Popić: Dissolution of chromium in sulfuric acid (Preliminary communication)</i>	777
Analytical Chemistry	
<i>S. S. Mitić, G. Ž. Miletić, A. N. Petrović and S. B. Tošić: Kinetic determination of lysine in pharmaceutical sample</i>	783

NUMBER 12

Organic Chemistry

<i>V. D. Kiricojević, M. D. Ivanović, I. V. Mićović, J. B. Djordjević, G. M. Roglić and Lj. Došen-Mičović: An optimized synthesis of a key pharmaceutical intermediate methyl 4-[(1-oxo-propylamino)piperidine-4-carboxylate</i>	793
<i>G. F. Jeyanthi, G. Vijayakumar and K. P. Elango: The effect of solvent on the kinetics of the oxidation of benzaldehydes by quinolinium chlorochromate in aqueous organic solvent media</i>	803

Biochemistry

<i>T. Momić, Z. Vujčić, V. Vasić and A. Horvat: Immobilization of Na, K-ATPase isolated from rat brain synaptic plasma membranes</i>	809
<i>N. Tomašević, M. Nikolić and V. Niketić: Insulin-induced glycosylphosphatidylinositol (GPI) binding to red cell membrane proteins (Short communication)</i>	819

Inorganic Chemistry

<i>R. N. Prasad and M. Mathur: Synthesis and characterization of Cr(III), Fe(III), Co(II), Ni(II), Cu(II) and Zn(II) complexes of 2,12-dimethyl-3,13-di-<i>n</i>-propyl-1,4,11,14-tetraazacycloicosa-1,3,11,13-tetraene</i>	
---	--

Physical Chemistry

<i>M. S. Masoud, A. M. Hafez, M. Sh. Ramadan and A. E. Ali: Dielectric properties of some cadmium and mercury amino alcohol complexes at low temperatures</i>	835
<i>A. Grozdanov, G. Bogoeva-Gaceva and M. Avella: Quantitative evaluation of iPP nucleation in the presence of carbon fibres: induction time approach</i>	845

Electrochemistry

<i>K. I. Popov, N. D. Nikolić and Z. Rakočević: A representative particle of copper powder and branching of copper dendrites</i>	863
<i>G. Ćirić-Marjanović, B. Marjanović, V. Stamenković, Ž. Vitnik, V. Antić and I. Juranić: Structure and stereochemistry of electrochemically synthesized poly-(1-naphthylamine) from neutral acetonitrile solution</i>	869

Environmental Chemistry

<i>Z. Todorović, P. Polić, T. Sabo and M. Cakić: Preconcentration method for trace metals in natural waters using 4-morpholine dithiocarbamate.....</i>	881
<i>S. Gašić, M. Budimir, D. Brkić and N. Nešković: Residues of atrazine in agricultural areas of Serbia</i>	889
Contents of Volume 67	893
Subject index.....	901
Author index.....	905