



Contents to Volume 49

Volume 49 Nos. 1–2 June 2004

Special Issue:

**28th International Symposium on Macroyclic Chemistry (ISMC-28),
13–18 July 2003, Gdańsk, Poland**

Guest Editor:

JAN BIERNAT

Preface	1
THOMAS A. KADEN / Metal Complexes of Ditopic and Polytopic Macroyclic Ligands	3–9
IVONA SVOBODOVÁ, PŘEMYSL LUBAL, PETR HERMANN, JAN KOTEK and JOSEF HAVEL / Application of <i>Dipon</i> , (1,4,8,11-Tetraazacyclotetradecane-4, 11-bis(methylphosphonic acid) as Selective Complexing Agent for Determination of Copper (II)	11–15
YOICHI HABATA and SACHIKO YAMADA / Molecular Structure of the Silver(I) Triflate Complex with <i>N,N',N'',N'''</i> -tetrakis (3', 5' -difluorobenzyl)-1,4,8,11-tetraazacyclotetradecane	17–20
ANNA SKWIERAWSKA, EWA PALUSZKIEWICZ, MONIKA PRZYBOROWSKA and TADEUSZ OSSOWSKI / The Synthesis of 1,4,7,10-Tetraazacyclododecanes with Acetylsalicylic Side Arm as Potential Cobalt (II) Fluorophores	21–26
KENNETH P. GHIGGINO, JAMES A. HUTCHISON, STEVEN J. LANGFORD, MARCIA A.-P. LEE, PHILIP R. LOWENSTERN and TREVOR YANN / Modulating Electron Transfer in a Simple Bichromophoric System Employing Axial-Ligation as an Organising Precept	27–32
HIROMITSU MAEDA, ATSUHIRO OSUKA and HIROYUKI FURUTA / Anion Binding Properties of <i>N</i> -Confused Porphyrins at the Peripheral Nitrogen	33–36
FRANCISCO TORRENS / An Improved Force Field for O ₂ , CO and CN Binding to Metalloporphyrins	37–46
O. KLIMCHUK, L. ATAMAS, S. MIROSHNICHENKO, V. KALCHENKO, I. SMIRNOV, V. BABAIN, A. VARNEK and G. WIPFF / New Wide Rim Phosphomethylated Calix[4]arenes in Extraction of Americium and Europium	47–56
M. BOCHEŃSKA, M. HOFFMANN and U. LESIŃSKA / Lower Rim Substituted <i>tert</i> -Butylcalix[4]-arenes (Part VI). Synthesis and Ionophoric Properties of 5,11,17,23-Tetra- <i>tert</i> -Butyl-25,26,27,28-Tetrakis(3-Diethoxyphosphorylpropoxy)Calix[4]arene	57–60
MAREK PIETRASZKIEWICZ, ANDRZEJ KŁONKOWSKI, KRZYSZTOF STANISZEWSKI, JERZY KARPIUK, SŁAWOMIR BIANKETTI and OKSANA PIETRASZKIEWICZ / Novel Ligands Incorporating Phosphinoxide Groups as Particularly Efficient Sensitizers for Lanthanide Emission	61–67
MARIETTA BIAŁOŃ, JACEK HETPER, MAREK PIETRASZKIEWICZ and OKSANA PIETRASZKIEWICZ / Thermodynamic Interaction Parameters of Tetra- <i>n</i> -undecylcalix[4]resorcinarenes with Selected Solvents Studied by Inverse Gas Chromatography	69–73
WALDEMAR IWANEK, ROLAND FRÖHLICH and VOLKER SCHURIG / The Synthesis of Oxazaborolo-benzoxazaborinine Derivatives of Resorcinarene from (1 <i>S</i> ,2 <i>R</i>)-ephedrine	75–79
ULRICH LÜNING / Synthesizing Macrocycles under Thermodynamic Control – Dynamic Combinatorial Libraries and Templates	81–84
MARIUSZ M. GRUZA, ARLETTA POKROP, PIOTR PIĄTEK and JANUSZ JURCZAK / Synthesis and Determination of Alkali Metal Binding Selectivities of Chiral Macroyclic Bisamides Derived from D-Mannitol and L-Threitol	85–89
BARTŁOMIEJ KOWALCZYK, ALDONA TARNOWSKA, PIOTR TARNOWSKI and JANUSZ JURCZAK / Synthesis and ESI-MS Complexation Studies of New Macroyclic Bisamides Containing Binaphthyl Unit	91–95

PIOTR GRZEGORZEWSKI, ANNA NIKONOWICZ and JANUSZ JURCZAK / Complexation of Pb ²⁺ by Macroyclic Benzo- and Pyridinophanes	97–100
ZAHRA TALEBPOUR, NAADER ALIZADEH, HAMID REZA BIJANZADEH and MOJTABA SHAMSIPUR / Cadmium-113 NMR and Theoretical Studies of Complexation of Cadmium Ion with 15-Crown-5 and Benzo-15-Crown-5 in Acetonitrile and Its Binary Mixtures and Water and Nitromethane	101–106
D.I. KIM, E.H. KIM, Z.U. BAE, H.G. NA, J.H. CHOI and Y.C. PARK / Synthesis and Characterization of Nickel(II) and Copper(II) Complexes with Non-symmetric Tetraaza[14]annulene Derivatives. X-ray Crystal Structure of Copper(II) Complex	107–113
MAŁGORZATA T. KACZMAREK, IZABELA POSPIESZNA-MAREKIEWICZ and WANDA RADECKA-PARYZEK / The Template Synthesis of the New Macroyclic and Acyclic Metal Ion Complexes Derived from Putrescine	115–119
VIOLETTA PATRONIĄK, MACIEJ KUBICKI and WANDA RADECKA-PARYZEK / The First Example of $\mu\text{-}\eta^2\text{:}\eta^2$ -Peroxo-Bridged Macroyclic Lanthanide Complex. The Crystal Structure of [Lu ₂ {Me ₂ PyO[16]trieneN ₅ } ₂ ($\mu\text{-}\eta^2\text{:}\eta^2$ -O ₂)Cl ₂](ClO ₄) ₂ Dioxane Solvate	121–125
ROMAN JOACHIMIAK and ZDZISŁAW PARYZEK / Synthesis and Alkaline Metal Ion Binding Ability of New Steroid Dimers Derived from Cholic and Lithocholic Acids	127–132
MIHAEL BARBOIU / Supramolecular Polymeric Macroyclic Receptors – Hybrid Carrier <i>versus</i> Channel Transporters in Bulk Liquid Membranes	133–137
O.V. YARISHKIN, A.K. TASHMUKHAMEDOVA, U.Z. MIRKHODJAEV and B.A. TASHMUKHAMEDOV / Characteristics of Single Ionic Channels Induced by Sulfonic Acid Derivatives of Dibenzo-18-Crown-6 in Bilayers	139–144
S.A. ANDREEV, A.D. GREBENYUK and A.K. TASHMUKHAMEDOVA / Regioselective Nitration of 4'-R-Dibenzo-18-Crown-6 by Some Alkaline Metals Nitrates in Polyphosphoric Acid	145–151
ALEXEI YU. LUKIN, SERGEI V. SHEVYAKOV, ALEXEI V. LAPTEV, OLGA I. DAVYDOVA, VITALI I. SHVETS, OLGA V. DEMINA, YURY P. STROKACH, VALERY A. BARACHEVSKY, MICHAEL V. ALFIMOV, SERGEI P. GROMOV, ARTEM I. VEDERNIKOV, JOHAN LUGTENBURG and ANDREY A. KHODONOV / Application of Horner–Emmons Olefination to the Crown-Ether Derivatives	153–161
ABBAS SHOCKRAVI, SAMAD BAVILI T, ESMAEL ROSTAMI, ALI YOUSEFI, ALI DEHJURIAN and RAHIM TOHIDI / Synthesis of New Dibenzosulfide and Dibenzosulfoxide Macroyclic Compounds	163–166
JOLANTA SZCZYGELSKA-TAO, JAN F. BIERNAT, ŁUKASZ GÓRSKI and ELŻBIETA MALINOWSKA / Studies on 16-Membered Azothia- and Azoxythiacrown Ethers as Ion Carriers in Ion Selective Membranes	167–171
KRZYSZTOF STOLARCZYK, RENATA BILEWICZ, ANNA SKWIERAWSKA and JAN F. BIERNAT / Functionalization of Electrode Surfaces with Monolayers of Azocompounds and Gold Clusters	173–179
H. HUESMANN, H. FUJIWARA, E. LUBOCH, J.F. BIERNAT and D. MÖBIUS / Influence of Molecular Organization of Photo-active Azo-phanes on the Reactivity in Monolayers at the Air-Water Interface	181–185
KAZIMIERZ CHMURSKI, ANDRZEJ TEMERIUSZ and RENATA BILEWICZ / Measurement of Ibuprofen Binding to Mixed Monolayers Containing β -Cyclodextrin Active Sites	187–191
ANNA KORALEWSKA, WOJCIECH AUGUSTYNIAK, ANDRZEJ TEMERIUSZ and MARIANNA KAŃSKA / Effects of Cyclodextrin Derivatives on the Catalytic Activity of Tyrosine Phenol-Lyase	193–197
Instructions for Authors	199–202
<i>Volume 49 Nos. 3–4 August 2004</i>	
RUSTEM R. AMIROV, ASIYA R. MUSTAFINA, ZULEIKHA T. NUGAEVA, SVETLANA V. FEDORENKO, ELLA KH. KAZAKOVA, ALEXANDR I. KONOVALOV and WOLF D. HABICHER / Complexation and Self-Assembling of Sulfonatomethylated Calix[4]resorcinarene with Both Organic and Lanthanide Ions in Aqueous Media	203–209
FRANCESCA BENEVELLI, YAROSLAV Z. KHIMYAK and JACEK KLINOWSKI / ¹³ C and 2D WISE NMR Studies of the Host Mobility in Two Aromatic Complexes of <i>p</i> -Tert-Butyl-Calixarene	211–218

PRIYA V. JAISWAL, VIJAYKUMAR S. IJERI and ASHWINI K. SRIVASTAVA / Complexation of Macrocyclic Compounds with Silver Ions in Surfactant Media	219–224
MIRCEA BOGDAN, MINO R. CAIRA, DIANA BOGDAN, CRISTIAN MORARI and SORIN I. FĂRCAŞ / Evidence of a Bimodal Binding between Diclofenac-Na and β -Cyclodextrin in Solution	225–229
JAVAD ZOLGHARNEIN, HOOMAYON TAHMASEBI, MORTEZA HABIBI and SAEID AMANI / Competitive Potentiometric Study of a Series of 18-crown-6 with Some Alkali and Alkaline Earth Metal Ions in Methanol Using an Ag ⁺ /Ag Electrode	231–234
T.R. SERTBAKAN, S. SAĞLAM, A. ÖZBAY and S. ÖZÇELIK / Investigation of Host–Guest Interactions in the Hofmann-daddn-type Clathrates: M(1,12-diaminododecane)Ni(CN) ₄ .G (M = Co, Ni or Cd; G = toluene, m-xylene, o-xylene or p-xylene)	235–240
BEATRIZ RAMAJO, ARÁNZAZU ESPINA, SERGEI A. KHAINAKOV and JOSÉ R. GARCÍA / (NH ₄)Zn ₂ (PO ₄) ₂ (HPO ₄): Hydrothermal Synthesis and Reaction with <i>n</i> -Alkylamine Vapours	241–248
CARLOS LODEIRO and JOSÉ LUIS CAPELO / Metal Ion Interaction of Two New Tritopic N ₂ O ₁₃ Macrocycles with B15C5 Moieties in Acetonitrile Solution	249–258
KALE RAJENDRAKUMAR, TAYADE PRALHAD and SARAF MADHUSUDAN / Comparative Study on Co-Ground Products of Rofecoxib with β -Cyclodextrin and Its Sulfobutyl Ether-7 Derivative in Solution and in the Solid State	259–266
EMAN M. EL-NEMMA and SALMAN R. SALMAN / Molecular Complexes of Crown Ethers: Part 8. Effect of Surfactant on the Charge Transfer Complexes of 18C6 with Picric Acid in the Presence of Alkali Metal Ions	267–273
VIKRAM SARVEIYA, JOHN F. TEMPLETON and HEATHER A.E. BENSON / Inclusion Complexation of the Sunscreen 2-Hydroxy-4-Methoxy Benzophenone (Oxybenzone) with Hydroxypropyl- β -Cyclodextrin: Effect on Membrane Diffusion	275–281
YU.V. FEDOROV, O.A. FEDOROVA, E.N. ANDRYUKHINA, S.P. GROMOV, M.V. ALFIMOV and J.J. AARON / Guest–Host Interactions between Crown-Containing 2-Styrylbenzothiazole and HP- β -CD	283–289
ÍÑIGO X. GARCÍA-ZUBIRI, GUSTAVO GONZÁLEZ-GAITANO, MIGUEL SÁNCHEZ and JOSÉ RAMÓN ISASI / Infrared Study of Solid Dispersion of β -Cyclodextrin with Naphthalene Derivatives	291–302
MAŁGORZATA JÓZWIAK / Complex Formation of Crown Ethers with Cations in the Water–Organic Solvent Mixtures. Part VII. Thermodynamic of Interactions of Na ⁺ Ion with 15-Crown-5 Ether in the Mixture of Water with <i>N,N</i> -Dimethylacetamide at 298.15 K	303–309
Author Index	311–312
Subject Index	313–314
Volume Contents	315–317