

ACKNOWLEDGEMENT TO REVIEWERS

The Editorial Board of *Croatica Chemica Acta* gratefully acknowledges assistance given during 2000 (volume 73) by the following reviewers:

- | | |
|------------------------------------|-----------------------------------|
| V. Allegretti-Živčić (Croatia) | A. A. Dobrynin (Russia) |
| F. H. Allen (UK) | D. Doepp (Germany) |
| R. Allmann (Germany) | J. Dolinšek (Slovenia) |
| R. Anwander (Germany) | V. Drevenkar (Croatia) |
| G. Baranović (Croatia) | Lj. Duić (Croatia) |
| F. J. Berry (UK) | J. Faganeli (Slovenia) |
| S. H. Bertz (USA) | H. Falk (Austria) |
| H. Bilinski (Croatia) | N. Filipović-Vinceković (Croatia) |
| N. Blažević (Croatia) | L. Forlani (Italy) |
| Ž. Blažina (Croatia) | F. J. Francis (USA) |
| D. Bonchev (USA) | Z. Galus (Poland) |
| A. Bottoni (Italy) | J. Galvez (Spain) |
| Lj. Brečević (Croatia) | W. Goessler (Austria) |
| R. Brouillard (France) | Z. Gomzi (Croatia) |
| D. T. Burns (Northern Ireland) | A. Graovac (Croatia) |
| G. Casiraghi (Italy) | S. Guccione (Italy) |
| J. A. S. Cavaleiro (Portugal) | D. Hadži (Slovenia) |
| J. Charalambous (UK) | C. Hauser (Switzerland) |
| C. Colella (Italy) | K. Heesche-Wagner (Germany) |
| J. Cortina (Spain) | D. Heller (Germany) |
| T. Cvitaš (Croatia) | M. Heyrovsky (Czech Republic) |
| J. Czarnecki (Germany) | Š. Horvat (Croatia) |
| V. Čaplar (Croatia) | R. Huber (Germany) |
| B. Ćosović (Croatia) | K. Jakopčić (Croatia) |
| A. M. d'A. R. Gonsalves (Portugal) | K. Jankowski (Poland) |
| R. de Levie (USA) | D. Juretić (Croatia) |
| M. A. Denecke (Germany) | N. Kallay (Croatia) |
| S. Dernini (Italy) | G. Karminski-Zamola (Croatia) |
| J. R. Dias (USA) | V. Kaučić (Slovenia) |
| M. V. Diudea (Romania) | H. Keiter (Germany) |

- E. C. Kirby (UK)
D. Kirin (Croatia)
D. J. Klein (USA)
J. Kniewald (Croatia)
J. Kobe (Slovenia)
E. Koblinger-Bokori (Hungary)
B. Kojić-Prodić (Croatia)
Z. Kolarik (Germany)
B. Kovač (Croatia)
D. Kovaček (Croatia)
K. H. Kubezcka (Germany)
B. Kunst (Croatia)
H. Kunz (Germany)
V. Kvasnička (Slovakia)
J. Lamut (Slovenia)
C. Lecomte (France)
K. Liedl (Germany)
J. Lipka (Slovakia)
A. Lipták (Hungary)
A. Losev (Bulgaria)
A. Loupy (France)
J. Ludvik (Czech Republic)
I. Lukovits (Hungary)
S. Marčelja (Australija)
P. Mariotti (Italy)
J. Marsel (Slovenia)
M. S. Masoud (Egypt)
D. Matković-Čalogović (Croatia)
J. Mavri (Slovenia)
I. Mayer (Hungary)
M. Metikoš-Huković (Croatia)
J. Mignot (France)
K. Mlinarić-Majerski (Croatia)
V. Mrljak (Croatia)
V. Mrša (Croatia)
P. Nikitas (Greece)
J. Ožegović (Croatia)
M. Č. Pešić (Germany)
A. T. Pethybridge (UK)
W. Pfleiderer (Germany)
G. Pichler (Croatia)
T. Pisanski (Slovenia)
P. Planinić (Croatia)
J. Plavec (Slovenija)
M. Prošek (Slovenia)
M. Randić (USA)
N. Raos (Croatia)
B. Raspor (Croatia)
H.-U. Reissig (Germany)
W. L. Reynolds (USA)
D. W. Rice (UK)
A. Rizzi (Italy)
C. Robles (France)
H. Rzepa (UK)
A. Sabljić (Croatia)
G. Salvatore (Italy)
A. B. Sannigrahi (India)
S. K. Saxena (USA)
K. Schaffner (Germany)
K. Schlögl (Austria)
F. Scholz (Germany)
G. Shields (UK)
Vl. Simeon (Croatia)
V. Simeon-Rudolf (Croatia)
J. Simonet (France)
D. A. Singleton (Australia)
J. V. Sinistera (Spain)
J. H. Sluyters (The Netherlands)
F. Sparatore (Italy)
B. Stanovnik (Slovenia)
Z. Stojek (Poland)
B. Subotić (Croatia)
P. Surjan (Hungary)
O. Šarc-Lahodny (Croatia)

- V. Šips (Croatia)
B. Šoptrajanov (Macedonia)
M. Šoškić (Croatia)
G. Štefanić (Croatia)
I. Štern (Croatia)
A. Thomas (UK)
D. Tibljaš (Croatia)
A. Tonejc (Croatia)
M. Tonković (Croatia)
G. Tourne (France)
P. Traldi (Italy)
R. Treptow (USA)
R. Trojko (Croatia)
Y. I. Tur'yan (Israel)
- Lj. Tušek-Božić (Croatia)
K. van Alem (The Netherlands)
H. Waldmann (Germany)
P. Wangersky (Canada)
M. Wink (Germany)
W. Winkler (Poland)
G. Wipff (France)
Sh. Yanagida (Japan)
M. Zelić (Croatia)
J. Žerovnik (Slovenia)
M. Žinić (Croatia)
M. Župančić (Slovenia)

CONTENTS

ORIGINAL SCIENTIFIC PAPERS

Physical and Theoretical Chemistry

- T. Cserháti and G. Oros:** Relationship between the Lipophilicity and Specific Hydrophobic Surface Area of Non-Homologous Series of Synthetic Dyes. 293
- V. Mirčeski and M. Lovrić:** Adsorption Effects in Square-Wave Voltammetry of an EC Mechanism 305
- L. Bytautas and D. J. Klein:** Formula Periodic Table for the Isomer Classes of Acyclic Hydrocarbons - Enumerative and Asymptotic Characteristics. 331
- A. B. J. Parusel, R. Schamschule, and G. Köhler:** Reduction and Radical Addition: A Theoretical Study on Chlorobenzonitriles 359
- M. V. Diudea, A. A. Kiss, E. Estrada, and N. Guevara:** Connectivity-, Wiener- and Harary-Type Indices of Dendrimers 367
- E. V. Konstantinova and M. V. Diudea:** The Wiener Polynomial Derivatives and Other Topological Indices in Chemical Research. 383
- J. R. Dias:** Strongly Subspectral Series Containing the Cyclobutadiene Moiety 405
- R. Tomaš, M. Višić, and I. Mekjavić:** Thermodynamics of Cadmium Chloride in *t*-Butanol - Water Mixtures ($w_{t\text{-BuOH}} = 10\%$, 30%, and 50%) from Electromotive Force Measurements 423
- F. Cataldo:** A New Approach to the Anodic Decarboxylation of Unsaturated Dicarboxylic Acids. Part 1: Fumaric, Maleic and Acetylenedicarboxylic Acids. 435
- N. Bonciocat, S. Borca, L. Oniciu, and I. O. Marian:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. I. The » $L \cap P$ « Method. 451

- S. Borca, N. Bonciocat, I. O. Marian, and L. Oniciu:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. II. The » $a \cap P$ « Method 471
- L. Oniciu, I. O. Marian, N. Bonciocat, and S. Borca:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. III. The » $L \cap a$ « Method. 485
- R. N. Goyal and A. Rastogi:** Oxidation Chemistry of 3,7-Dimethylxanthine - a Central Behavioural Stimulant at Solid Electrodes 495
- S. Kilić and L. Vranješ:** Some Relations for the Ground State Energy and Helium Diatomic Molecules. 517
- Y. I. Tur'yan:** Polarographic Kinetic Currents of Formaldehyde and Kinetics of the Electrode Chemical Reactions. 625
- J. Saba, G. Dalmata, J. Nieszporek, and J. Szaran:** Properties of the Mixed Polyethyleneglycoles-iodide Ions Adsorption Layers on a Mercury Electrode 643
- Y. I. Tur'yan:** Studying Kinetics of the Dehydration Reaction of Acetaldehyde in Aqueous Solutions Using Polarographic Kinetic Currents 657
- N. Zakharchuk, S. Meyer, B. Lange, and F. Scholz:** A Comparative Study of Lead Oxide Modified Graphite Paste Electrodes and Solid Graphite Electrodes with Mechanically Immobilized Lead Oxides 667
- M. J. Rioseras-Garcia and J. M. Hernando-Huelmo:** Semi-empirical Study of Geometries and Valence Isomerization of Pyrene-4,5-oxide and Pyrene-2,3-oxide, Their Oxepines and Related Compounds 705
- M. Lovrek, V. Pilepić, and S. Uršić:** Intriguing Salt Effects in the Formation of Hydroxamic Acids from Aldehydes and Nitroso Compounds 715
- A. T. Balaban, D. Mills, O. Ivanciuc, and S. C. Basak:** Reverse Wiener Indices. 923
- I. Gutman and E. C. Kirby:** Benzenoids with Branching Graphs that are Trees 943

- D. Marušič and T. Pisanski:** Symmetries of Hexagonal Molecular Graphs on the Torus 969
- E. C. Kirby:** On the Partially Random Generation of Fullerenes 983
- R. B. King:** Unusual Permutation Groups in Negative Curvature Carbon and Boron Nitride Structures 993
- V. G. Espeso, J. J. Molins Vara, B. Roy Lázaro, F. Riera Parcerisas, and D. Plavšić:** On the Hosoya Hyperindex and the Molecular Indices Based on a New Decomposition of the Hosoya **Z** Matrix 1017
- A. P. Marchand, H.-S. Chong, B. Ganguly, and J. M. Coxon:** π -Facial Selectivity in Diels-Alder Cycloadditions 1027
- R. Bochicchio, L. Lain, A. Torre, and R. Ponec:** Picture of Bonding in Protonated Phosphorus and Arsenic Clusters. Detection of 3-Center Bonds from the Generalized Population Analysis 1039
- Z. Slanina, F. Uhlík, J.-P. François, and E. Osawa:** Thermodynamic Data Bases and Optical Isomerism 1047
- D. Vikić-Topić and Lj. Pejov:** Computational Studies of the ^{13}C and ^1H NMR Isotropic Chemical Shifts Using Density Functional Optimized Geometries. Adamantane and 2,4-Methano-2,4-dehydroadamantane (a [3.1.1]Propellane) as Case Studies 1057
- G. P. Zhang, X. Sun, and Th. F. George:** Kinetic Energy-Based Normal Mode Analysis of Electronic Processes in C_{60} 1077
- L. Vranješ and S. Kilić:** Variational Study of Fermionic Helium Dimer and Trimer in Two Dimensions 1087
- M. Friedman, S. Kazazić, N. Kezele, L. Klasinc, S. P. McGlynn, S. Pečur, and W. A. Pryor:** Role of Nitrogen Oxides in Ozone Toxicity 1141
- P. Novak, D. Škare, S. Sekušak, and D. Vikić-Topić:** Substituent, Temperature and Solvent Effects on Keto-Enol Equilibrium in Symmetrical Pentane-1,3,5-triones. Nuclear Magnetic Resonance and Theoretical Studies 1153
- Lj. Pejov and V. M. Petruševski:** The Vibrational Stark Shifts of Sulfate Internal Modes in SO_4^{2-} Doped Potassium, Rubidium and Cesium Selenates. A Quantum Model for Measurement of Crystalline Fields 1171

- Lj. Pejov, L. Andreeva, B. Minčeva-Šukarova, and V. M. Petruševski:** The Vibrational Stark Effect on the Doubly Degenerate ν_{19} Modes of the Benzene Guest Molecules in Hofmann Type Clathrates 1185

Inorganic Chemistry

- B. Kozlevčar, N. Lah, I. Leban, F. Pohleven, and P. Šegedin:** Synthesis and Characterization of Fatty Acid Copper(II) Carboxylates with *N,N*-Diethylnicotinamide 733

Organic Chemistry

- K. Mlinarić-Majerski, J. Veljković, and M. Kaselj:** Photolysis of 11-Methylenepentacyclo[5.4.0.0^{2,6}.0^{3,10}.0^{5,9}]undecan-8-spiro-3'-diazirine. Medium Dependent Reaction. 575

- J. Mastelić, M. Miloš, D. Kuštrak, and A. Radonić:** Essential Oil and Glycosidically Bound Volatile Compounds from the Needles of Common Juniper (*Juniperus communis* L.) 585

- A. Avdagić and V. Šunjić:** On the Way to α -Methyl- α -amino Acids; Unusual Elimination-addition in 3,3-Disubstituted 1,4-Benzodiazepin-2-ones and Inversion of Enantioselectivity in the Lipase Catalyzed Acetylation 743

- J. Lapić and V. Rapić:** Ferrocene Compounds. XXVIII. Synthesis of 2-(Ferrocenylalkyl)- and 2-[Ferrocenyl(phenyl)alkyl]-1,3-propanediols and Their Acetates 755

- M. Roščić and Š. Horvat :** Synthesis and Peptidyl Group Migration in Isopropylidene Acetals Derived from the Glucose-substituted Imidazolidinone Related to Opioid Peptide Leucine-enkephalin 773

- J. Mastelić, M. Miloš, and D. Kuštrak :** Free and Glycosidically Bound Volatiles of *Mentha citrata* Ehrh. 781

Analytical Chemistry

- B. Tamhina, A. Gojmerac-Ivšić, and A. Bartolinčić:** Extraction and Characterization of Niobium(V) Thiocyanate Complexes 57

- D. Srzić, S. Kazazić, S. Martinović, Lj. Paša-Tolić, N. Kezele, D. Vikić-Topić, S. Pečur, A. Vrančić, and L. Klasinc:** FTMS of Natural Polymers 69

- Z. Cimerman, S. Miljanić, and N. Galić:** Schiff Bases Derived from Aminopyridines as Spectrofluorimetric Analytical Reagents 81
- Ž. Kwokal and M. Branica:** Determination of Dissolved Monomethylmercury in Saline, Estuarine and Fresh Waters of Croatia 97
- B. Krauthacker and E. Reiner:** Congener Specific Analysis of Polychlorinated Biphenyls (PCBs) in Human Blood Serum from Croatia 187
- M. Petrović, S. Babić, and M. Kaštelan-Macan:** Quantitative Determination of Pesticides in Soil by Thin-layer Chromatography and Video Densitometry 197
- M. Ahel, W. Giger, E. Molnar, and S. Ibrić:** Determination of Nonylphenol Polyethoxylates and Their Lipophilic Metabolites in Sewage Effluents by Normal-phase High-performance Liquid Chromatography and Fluorescence Detection. . . . 209
- N. Periš, Ž. Vasilić, S. Fingler, and V. Drevenkar:** Trace Enrichment of Polychlorinated Biphenyls in Soil: Efficiency of Sonicated Liquid-solid Extraction with Acetone/*n*-Hexane Mixture from Different Soil Types. 229
- D. Krznarić, T. Goričnik, and B. Čosović:** Electrochemical Determination of Organic Surface Active Substances in Model and Natural Sea Water with Au(111) Monocrystal Electrode 247
- Nj. Radić, J. Komljenović, and D. Dobčnik:** Determination of Penicillamine by Batch and Flow-injection Potentiometry with AgI-based Sensor 263
- S. Kovač, R. Kraus, S. Geček, and V. Žutić:** Cell Suspension as a Model System for Electrochemical Analysis. 279
- A. Gojmerac Ivšić and B. Tamhina:** Solvent Extraction of Copper as a Thiocyanate Complex. Reducing Effect of Thiocyanate. . . . 605
- A. Rastovčan-Mioč, Š. Cerjan-Stefanović, and L. Čurković:** Aqueous Leachate from Electric Furnace Slag 615
- Ž. Grahek, I. Eškinja, K. Košutić, and Š. Cerjan-Stefanović:** Isolation of Yttrium and Strontium from Soil Samples and Rapid Determination of ⁹⁰Sr 795

Biochemistry

- S. Orhanović and M. Pavela-Vrančić:** Alkaline Phosphatase Activity in Seawater: Influence of Reaction Conditions on the Kinetic Parameters of ALP 819
- J. Pavan, N. Štambuk, B. Pokrić, P. Konjevoda, M. Trbojević-Čepe, and G. Pavan:** Quantification of Intraocular Interferon- γ and IgG in Cataract and Diabetes 1099
- P. Konjevoda, N. Štambuk, D. Vikić-Topić, A. Boban-Blagaić, S. Vikić-Topić, V. Mrljak, J. Pavan, P. Ramadan, and Z. Biđin:** Protective Effects of Met-enkephalin on Alcohol Induced Gastric Lesions. 1111
- N. Štambuk:** Universal Metric Properties of the Genetic Code. 1123

Materials Chemistry

- M. Ristić, I. Nowik, S. Popović, and S. Musić:** Formation of Oxide Phases in the System $\text{Eu}_2\text{O}_3 - \text{Fe}_2\text{O}_3$ 525
- S. Musić, A. Šarić, S. Popović, K. Nomura, and T. Sawada:** Forces Hydrolysis of Fe^{3+} Ions in $\text{NH}_4\text{Fe}(\text{SO}_4)_2$ Solutions Containing Urotropin 541
- S. M. Shevchenko:** Depolymerization of Lignin in Wood with Molecular Hydrogen Iodide 831

NOTES*Physical and Theoretical Chemistry*

- B. Foretić and N. Burger:** The Negative Ions' Mass Spectrum of tris(2-Nitroso-1-naphtholato)ferrate(II). 417
- D. Amić, D. Davidović-Amić, D. Bešlo, and N. Trinajstić:** Vitisin-Type Pigments: Possible Novel Food Colors 511
- S. Nikolić, I. M. Tolić, N. Trinajstić, and I. Baučić:** On the Zagreb Indices as Complexity Indices 909
- I. Lukovits, S. Nikolić, and N. Trinajstić:** Note on the Resistance Distances in the Dodecahedron 957

Organic Chemistry

- I. Butula and M. Jadrijević-Mladar Takač:** Reactions with 1-Benzotriazolecarboxylic Acid Chloride. VIII. Synthesis of *N*-Hydroxyisocyanate Derivatives 569

Analytical Chemistry

- M. Daňková, P. Vaňura, and E. Makrlík:** Extraction of Microamounts of Barium in the System: Water – CsCl – 18-Crown-6 – Nitrobenzene – Cesium Dicarbolylcobaltate. 809

CONFERENCE PAPERS*Organic Chemistry*

- H. Vančik:** Chlorocarocations and Concept of the Electron Donating Ability 595

Structural Chemistry

- G. Jovanovski:** Metal Saccharinates and Their Complexes with *N*-donor Ligands 843
- D. Yu. Pushcharovsky:** Recent Contributions and Modern Perspectives in XRD Studies of Minerals 869
- C. Rosano, G. Izzo, L. Sturla, A. Bisso, M. Tonetti, and M. Bolognesi:** The High Resolution Structure of GDP-4-keto-6-deoxy-D-mannose epimerase/reductase. 887
- G. G. Dodson:** Catalysis in Penicillin G Amidase – a Member of the Ntn (N Terminal Nucleophile) Hydrolase Family. 901

REVIEWS*Analytical Chemistry*

- M. Kaštelan-Macan and B. Klaić:** Analytical Chemistry in Croatia. 1
- V. Grdinić and S. Luterotti:** Analytical Profile of the Methods in Reactive Polymeric Solid Phase 23
- O. Hadžija and M. Petrović:** Survey of Planar Chromatography and HPLC Research in Croatia from 1980–1998. 111
- M. Picer:** DDTs and PCBs in the Adriatic Sea. 123

PREFACES

Z. Cimerman, M. Kaštelan-Macan, Nj. Radić, and N. Trinajstić: Editorial	I–II
B. Kamenar: Foreword	III
A. Graovac, D. Plavšić, and D. Vikić-Topić: Foreword	V–VI
F. Harary: To Everybody at MCC'99 (Poem).	VII

APPENDICES

Obituaries	A1–A3, A37–A40, A47–A53
Book Reviews	A5–A13, A41–A45
Meeting of the Croatian Chemical Society (in Croatian).	A15–A35
Instructions to Authors	B1–B5
Announcements and Advertisements	C1–C3, C5–C8, C9–C10, C39
Acknowledgement to Reviewers	C11–C13
Contents and Index of <i>Croatica Chemica Acta</i> Vol. 73	C15–C37

INDEX

ORIGINAL SCIENTIFIC PAPERS (OP) – IZVORNI ZNANSTVENI RADOVI (OP)
 NOTES (N) – BILJEŠKE (N)
 PRELIMINARY COMMUNICATIONS (PC) – PRETHODNA SAOPĆENJA (PC)
 AUTHORS REVIEWS (AR) – AUTORSKI PREGLEDI (AR)
 FEATURE ARTICLES (FA) – AKTUALNI PRIKAZI (FA)
 CONFERENCE PAPERS (CP) – KONFERENCIJSKI PRILOZI (CP)
 REVIEWS (R) – PRIKAZI (R)
 REFLECTIONS (Rs) – OSVRTI (Rs)
 INTRODUCTORY ARTICLES (IA) – UVODNI ČLANCI (IA)

- Ahel, M., Giger, W., Molnar, E., and Ibrić, S.:** Determination of Nonylphenol Polyethoxylates and Their Lipophilic Metabolites in Sewage Effluents by Normal-phase High-performance Liquid Chromatography and Fluorescence Detection (OP) 209
- Amić, D., Davidović-Amić, D., Bešlo, D., and Trinajstić, N.:** Vitisin-Type Pigments: Possible Novel Food Colors (N) 511
- Andreeva, L.:** vidi Pejov, Lj.
- Avdagić, A. and Šunjić, V.:** On the Way to α -Methyl- α -amino Acids; Unusual Elimination-addition in 3,3-Disubstituted 1,4-Benzodiazepin-2-ones and Inversion of Enantioselectivity in the Lipase Catalyzed Acetylation (OP). 743
- Babić, S.:** vidi Petrović, M.
- Balaban, A. T., Mills, D., Ivanciuc, O., and Basak, S. C.:** Reverse Wiener Indices (OP) 923
- Bartolinčić, A.:** vidi Tamhina, B.
- Basak, S. C.:** vidi Balaban, A. T.
- Baučić, I.:** vidi Nikolić, S.
- Bešlo, D.:** vidi Amić, D.
- Biđin, Z.:** vidi Konjevoda, P.
- Bisso, A.:** vidi Rosano, C.
- Boban-Blagaić, A.:** vidi Konjevoda, P.
- Bochicchio, R., Lain, L., Torre, A., and Ponec, R.:** Picture of Bonding in Protonated Phosphorus and Arsenic Clusters. Detection of 3-Center Bonds from the Generalized Population Analysis (OP) 1039

- Bolognesi, M.:** vidi Rosano, C.
- Bonciocat, N., Borca, S., Oniciu, L., and Marian, I. O.:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. I. The » $L \cap P$ « Method (OP) 451
- Bonciocat, N.:** vidi Borca, S.
- Bonciocat, N.:** vidi Oniciu, L.
- Borca, S., Bonciocat, N., Marian, I. O., and Oniciu, L.:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. II. The » $a \cap P$ « Method (OP) 471
- Borca, S.:** vidi Bonciocat, N.
- Borca, S.:** vidi Oniciu, L.
- Branica, M.:** vidi Kwokal, Ž.
- Burger, N.:** vidi Foretić, B.
- Butula, I. and Jadrijević-Mladar Takač, M.:** Reactions with 1-Benzotriazolecarboxylic Acid Chloride. VIII. Synthesis of *N*-Hydroxyisocyanate Derivatives (N) 569
- Bytautas, L. and Klein, D. J.:** Formula Periodic Table for the Isomer Classes of Acyclic Hydrocarbons - Enumerative and Asymptotic Characteristics (OP) 331
- Cataldo, F.:** A New Approach to the Anodic Decarboxylation of Unsaturated Dicarboxylic Acids. Part 1: Fumaric, Maleic and Acetylenedicarboxylic Acids (OP). 435
- Cerjan-Stefanović, Š.:** vidi Grahek, Ž.
- Cerjan-Stefanović, Š.:** vidi Rastovčan-Mioč, A.
- Chong, H.-S.:** vidi Marchand, A. P.
- Cimerman, Z., Kaštelan-Macan, M., Radić, Nj., and Trinajstić, N.:** Editorial I–II
- Cimerman, Z., Miljanić, S., and Galić, N.:** Schiff Bases Derived from Aminopyridines as Spectrofluorimetric Analytical Reagents (OP). 81
- Coxon, J. M.:** vidi Marchand, A. P.

- Cserhádi, T. and Oros, G.:** Relationship between the Lipophilicity and Specific Hydrophobic Surface Area of Non-Homologous Series of Synthetic Dyes (OP) 293
- Ćosović, B.:** vidi Krznarić, D.
- Ćurković, L.:** vidi Rastovčan-Mioč, A.
- Dalmata, G.:** vidi Saba, J.
- Daňková, M., Vaňura, P., and Makrlík, E.:** Extraction of Microamounts of Barium in the System: Water – CsCl – 18-Crown-6 – Nitrobenzene – Cesium Dicarbolylcobaltate (N) 809
- Davidović-Amić, D.:** vidi Amić, D.
- Dias, J. R.:** Strongly Subspectral Series Containing the Cyclobutadiene Moiety (OP) 405
- Diudea M. V.:** vidi Konstantinova, E. V.
- Diudea, M. V., Kiss, A. A., Estrada, E., and Guevara, N.:** Connectivity-, Wiener- and Harary-Type Indices of Dendrimers (OP) 367
- Dobčnik, D.:** vidi Radić, Nj.
- Dodson, G. G.:** Catalysis in Penicillin G Amidase – a Member of the Ntn (N Terminal Nucleophile) Hydrolase Family (OP) 901
- Drevenkar, V.:** vidi Periš, N.
- Espeso, V. G., Molins Vara, J. J., Roy Lázaro, B., Riera Parcerisas, F., and Plavšić, D.:** On the Hosoya Hyperindex and the Molecular Indices Based on a New Decomposition of the Hosoya **Z** Matrix (OP) 1017
- Estrada, E.:** vidi Diudea, M. V.
- Eškinja, I.:** vidi Grahek, Ž.
- Fingler, S.:** vidi Periš, N.
- Foretić, B. and Burger, N.:** The Negative Ions' Mass Spectrum of tris(2-Nitroso-1-naphtholato)ferrate(II) (N) 417
- François, J.-P.:** vidi Slanina, Z.
- Friedman, M., Kazazić, S., Kezele, N., Klasinc, L., McGlynn, S. P., Pečur, S., and Pryor, W. A.:** Role of Nitrogen Oxides in Ozone Toxicity (OP) 1141

Galić, N.: vidi Cimerman, Z.

Ganguly, B.: vidi Marchand, A. P.

Geček, S.: vidi Kovač, S.

George, Th. F.: vidi Zhang, G. P.

Giger, W.: vidi Ahel, M.

Gojmerac Ivšić, A. and Tamhina, B.: Solvent Extraction of Copper
as a Thiocyanate Complex. Reducing Effect of Thiocyanate (OP) 605

Gojmerac Ivšić, A.: vidi Tamhina, B.

Goričnik, T.: vidi Krznarić, D.

Goyal, R. N. and Rastogi, A.: Oxidation Chemistry of 3,7-Dimethyl-
xanthine - a Central Behavioural Stimulant at Solid Electro-
des (OP) 495

Grahek, Ž., Eškinja, I., Košutić, K., and Cerjan-Stefanović, Š.:
Isolation of Yttrium and Strontium from Soil Samples and
Rapid Determination of ⁹⁰Sr (OP) 795

Graovac, A., Plavišić, D., and Vikić-Topić, D.: Foreword V–VI

Grdinić, V. and Luterotti, S.: Analytical Profile of the Methods
in Reactive Polymeric Solid Phase (R) 23

Guevara, N.: vidi Diudea, M. V.

Gutman, I. and Kirby, E. C.: Benzenoids with Branching Graphs
that are Trees (OP) 943

Hadžija, O. and Petrović, M.: Survey of Planar Chromatography
and HPLC Research in Croatia from 1980–1998 (R) 111

Harary, F.: To Everybody at MCC'99 (Poem) VII

Hernando-Huelmo, J. M.: vidi Rioseras-Garcia, M. J.

Horvat, Š.: vidi Roščić, M.

Ibrić, S.: vidi Ahel, M.

Ivanciuc, O.: vidi Balaban, A. T.

Izzo, G.: vidi Rosano, C.

Jadrijević-Mladar Takač, M.: vidi Butula, I.

- Jovanovski, G.:** Metal Saccharinates and Their Complexes with N-donor Ligands (CP). 843
- Kamenar, B.:** Foreword. III
- Kaselj, M.:** vidi Mlinarić-Majerski, K.
- Kaštelan-Macan, M. and Klaić, B.:** Analytical Chemistry in Croatia (R) 1
- Kaštelan-Macan, M.:** vidi Cimreman, Z.
- Kaštelan-Macan, M.:** vidi Petrović, M.
- Kazazić, S.:** vidi Friedman, M.
- Kazazić, S.:** vidi Srzić, D.
- Kezele, N.:** vidi Friedman, M.
- Kezele, N.:** vidi Srzić, D.
- Kilić, S. and Vranješ, L.:** Some Relations for the Ground State Energy and Helium Diatomic Molecules (OP). 517
- Kilić, S.:** vidi Vranješ, L.
- King, R. B.:** Unusual Permutation Groups in Negative Curvature Carbon and Boron Nitride Structures (OP). 993
- Kirby, E. C.:** On the Partially Random Generation of Fullerenes (OP) 983
- Kirby, E. C.:** vidi Gutman, I.
- Kiss, A. A.:** vidi Diudea, M. V.
- Klaić, B.:** vidi Kaštelan-Macan, M.
- Klasinc, L.:** vidi Friedman, M.
- Klasinc, L.:** vidi Srzić, D.
- Klein, D. J.:** vidi Bytautas, L.
- Köhler, G.:** vidi Parusel, A. B. J.
- Komljenović, J.:** vidi Radić, Nj.

- Konstantinova, E. V. and Diudea M. V.:** The Wiener Polynomial Derivatives and Other Topological Indices in Chemical Research (OP) 383
- Konjevoda, P., Štambuk, N., Vikić-Topić, D., Boban-Blagaić, A., Vikić-Topić, S., Mrljak, V., Pavan, J., Ramadan, P., and Biđin, Z.:** Protective Effects of Met-enkephalin on Alcohol Induced Gastric Lesions (OP) 1111
- Konjevoda, P.:** vidi Pavan, J.
- Košutić, K.:** vidi Grahek, Ž.
- Kovač, S., Kraus, R., Geček, S., and Žutić, V.:** Cell Suspension as a Model System for Electrochemical Analysis (OP) 279
- Kozlevčar, B., Lah, N., Leban, I., Pohleven, F., and Šegedin, P.:** Synthesis and Characterization of Fatty Acid Copper(II) Carboxylates with *N,N*-Diethylnicotinamide (OP) 733
- Kraus, R.:** vidi Kovač, S.
- Krauthacker, B. and Reiner, E.:** Congener Specific Analysis of Polychlorinated Biphenyls (PCBs) in Human Blood Serum from Croatia (OP) 187
- Krznarić, D., Goričnik, T., and Ćosović, B.:** Electrochemical Determination of Organic Surface Active Substances in Model and Natural Sea Water with Au(111) Monocrystal Electrode (OP) 247
- Kuštrak, D.:** vidi Mastelić, J.
- Kwokal, Ž. and Branica, M.:** Determination of Dissolved Methylmercury in Saline, Estuarine and Fresh Waters of Croatia (OP) 97
- Lah, N.:** vidi Kozlevčar, B.
- Lain, L.:** vidi Bochicchio, R.
- Lange, B.:** vidi Zakharchuk, N.
- Lapić, J. and Rapić, V.:** Ferrocene Compounds. XXVIII. Synthesis of 2-(Ferrocenylalkyl)- and 2-[Ferrocenyl(phenyl)alkyl]-1,3-propanediols and Their Acetates (OP) 755
- Leban, I.:** vidi Kozlevčar, B.

- Lovrek, M., Pilepić, V., and Uršić, S.:** Intriguing Salt Effects in the Formation of Hydroxamic Acids from Aldehydes and Nitroso Compounds (OP) 715
- Lovrić, M.:** vidi Mirčeski, V.
- Lukovits, I., Nikolić, S., and Trinajstić, N.:** Note on the Resistance Distances in the Dodecahedron (N). 957
- Luterotti, S.:** vidi Grdinić, V.
- Makrlík, E.:** vidi Daňková, M.
- Marchand, A. P., Chong, H.-S., Ganguly, B., and Coxon, J. M.:** π -Facial Selectivity in Diels-Alder Cycloadditions (OP) 1027
- Marian, I. O.:** vidi Borca, S.
- Marian, I. O.:** vidi Oniciu, L.
- Marian, I. O.:** vidi Bonciocat, N.
- Martinović, S.:** vidi Srzić, D.
- Marušić, D. and Pisanski, T.:** Symmetries of Hexagonal Molecular Graphs on the Torus (OP) 969
- Mastelić, J., Miloš, M., and Kuštrak, D.:** Free and Glycosidically Bound Volatiles of *Mentha citrata* Ehrh (OP). 781
- Mastelić, J., Miloš, M., Kuštrak, D., and Radonić, A.:** Essential Oil and Glycosidically Bound Volatile Compounds from the Needles of Common Juniper (*Juniperus communis* L.) (OP) 585
- McGlynn, S. P.:** vidi Friedman, M.
- Mekjavić, I.:** vidi Tomaš, R.
- Meyer, S.:** vidi Zakharchuk, N.
- Mills, D.:** vidi Balaban, A. T.
- Miloš, M.:** vidi Mastelić, J.
- Miljanić, S.:** vidi Cimerman, Z.
- Minčeva-Šukarova, B.:** vidi Pejov, Lj.
- Mirčeski, V. and Lovrić, M.:** Adsorption Effects in Square-Wave Voltammetry of an EC Mechanism (OP). 305

- Mlinarić-Majerski, K., Veljković, J., and Kaselj, M.:** Photolysis of 11-Methylene-pentacyclo[5.4.0.0^{2,6}.0^{3,10}.0^{5,9}]undecan-8-*spiro*-3'-diazirine. Medium Dependent Reaction (OP) 575
- Molins Vara, J. J.:** vidi Espeso, V. G.
- Molnar, E.:** vidi Ahel, M.
- Mrljak, V.:** vidi Konjevoda, P.
- Musić, S., Šarić, A., Popović, S., Nomura, K., and Sawada, T.:** Forces Hydrolysis of Fe³⁺ Ions in NH₄Fe(SO₄)₂ Solutions Containing Urotropin (OP) 541
- Musić, S.:** vidi Ristić, M.
- Nieszporek, J.:** vidi Saba, J.
- Nikolić, S., Tolić, I. M., Trinajstić, N., and Baučić, I.:** On the Zagreb Indices as Complexity Indices (N). 909
- Nikolić, S.:** vidi Lukovits, I.
- Nomura, K.:** vidi Musić, S.
- Novak, P., Škare, D., Sekušak, S., and Vikić-Topić, D.:** Substituent, Temperature and Solvent Effects on Keto-Enol Equilibrium in Symmetrical Pentane-1,3,5-triones. Nuclear Magnetic Resonance and Theoretical Studies (OP) 1153
- Nowik, I.:** vidi Ristić, M.
- Oniciu, L., Marian, I. O., Bonciocat, N., and Borca, S.:** New Stationary Methods for Studying the Kinetics of Redox Reactions Occurring at Inert Semiconductor/Redox Electrolyte Electrodes. III. The »L∩a« Method (OP) 485
- Oniciu, L.:** vidi Bonciocat, N.
- Oniciu, L.:** vidi Borca, S.
- Orhanović, S. and Pavela-Vrančić, M.:** Alkaline Phosphatase Activity in Seawater: Influence of Reaction Conditions on the Kinetic Parameters of ALP (OP) 819
- Oros, G.:** vidi Cserhádi, T.
- Osawa, E.:** vidi Slanina, Z.

- Parusel, A. B. J., Schamschule, R., and Köhler, G.:** Reduction and Radical Addition: A Theoretical Study on Chlorobenzonitriles (OP) 359
- Paša-Tolić, Lj.:** vidi Srzić, D.
- Pavan, G.:** vidi Pavan, J.
- Pavan, J., Štambuk, N., Pokrić, B., Konjevoda, P., Trbojević-Čepe, M., and Pavan, G.:** Quantification of Intraocular Interferon- γ and IgG in Cataract and Diabetes (OP) 1099
- Pavan, J.:** vidi Konjevoda, P.
- Pavela-Vrančić, M.:** vidi Orhanović, S.
- Pečur, S.:** vidi Friedman, M.
- Pečur, S.:** vidi Srzić, D.
- Pejov, Lj., Andreeva, L., Minčeva-Šukarova, B., and Petruševski, V. M.:** The Vibrational Stark Effect on the Doubly Degenerate ν_{19} Modes of the Benzene Guest Molecules in Hofmann Type Clathrates (OP) 1185
- Pejov, Lj. and Petruševski, V. M.:** The Vibrational Stark Shifts of Sulfate Internal Modes in SO_4^{2-} Doped Potassium, Rubidium and Cesium Selenates. A Quantum Model for Measurement of Crystalline Fields (OP) 1171
- Pejov, Lj.:** vidi Vikić-Topić, D.
- Periš, N., Vasilić, Ž., Fingler, S., and Drevenkar, V.:** Trace Enrichment of Polychlorinated Biphenyls in Soil: Efficiency of Sonicated Liquid-solid Extraction with Acetone/*n*-Hexane Mixture from Different Soil Types (OP) 229
- Petrović, M., Babić, S., and Kaštelan-Macan, M.:** Quantitative Determination of Pesticides in Soil by Thin-layer Chromatography and Video Densitometry (OP) 197
- Petrović, M.:** vidi Hadžija, O.
- Petruševski, V. M.:** vidi Pejov, Lj.
- Picer, M.:** DDTs and PCBs in the Adriatic Sea (R) 123
- Pilepić, V.:** vidi Lovrek, M.

- Pisanski, T.:** vidi Marušič, D.
- Plavšić, D.:** vidi Espeso, V. G.
- Plavšić, D.:** vidi Graovac, A.
- Pohleven, F.:** vidi Kozlevčar, B.
- Pokrić, B.:** vidi Pavan, J.
- Ponec, R.:** vidi Bochicchio, R.
- Popović, S.:** vidi Musić, S.
- Popović, S.:** vidi Ristić, M.
- Pryor, W. A.:** vidi Friedman, M.
- Pushcharovsky, D. Yu.:** Recent Contributions and Modern Perspectives in XRD Studies of Minerals (CP) 869
- Radić, Nj., Komljenović, J., and Dobčnik, D.:** Determination of Penicillamine by Batch and Flow-injection Potentiometry with AgI-based Sensor (OP) 263
- Radić, Nj.:** vidi Cimerman, Z.
- Radonić, A.:** vidi Mastelić, J.
- Ramadan, P.:** vidi Konjevoda, P.
- Rapić, V.:** vidi Lapić, J.
- Rastogi, A.:** vidi Goyal, R. N.
- Rastovčan-Mioč, A., Cerjan-Stefanović, Š., and Čurković, L.:** Aqueous Leachate from Electric Furnace Slag (OP) 615
- Reiner, E.:** vidi Krauthacker, B.
- Riera Parcerisas, F.:** vidi Espeso, V. G.
- Rioseras-Garcia, M. J. and Hernando-Huelmo, J. M.:** Semi-empirical Study of Geometries and Valence Isomerization of Pyrene-4,5-oxide and Pyrene-2,3-oxide, Their Oxepines and Related Compounds (OP) 705
- Ristić, M., Nowik, I., Popović, S., and Musić, S.:** Formation of Oxide Phases in the System $\text{Eu}_2\text{O}_3 - \text{Fe}_2\text{O}_3$ (OP) 525

- Rosano, C., Izzo, G., Sturla, L., Bisso, A., Tonetti, M., and Bolognesi, M.:** The High Resolution Structure of GDP-4-keto-6-deoxy-D-mannose epimerase/reductase (CP) 887
- Rošćić, M. and Horvat, Š.:** Synthesis and Peptidyl Group Migration in Isopropylidene Acetals Derived from the Glucose-substituted Imidazolidinone Related to Opioid Peptide Leucine-enkephalin (OP). 773
- Roy Lázaro, B.:** vidi Espeso, V. G.
- Saba, J., Dalmata, G., Nieszporek, J., and Szaran, J.:** Properties of the Mixed Polyethyleneglycoles-iodide Ions Adsorption Layers on a Mercury Electrode (OP). 643
- Sawada, T.:** vidi Musić, S.
- Schamschule, R.:** vidi Parusel, A. B. J.
- Scholz, F.:** vidi Zakharchuk, N.
- Sekušak, S.:** vidi Novak, P.
- Shevchenko, S. M.:** Depolymerization of Lignin in Wood with Molecular Hydrogen Iodide (OP) 831
- Slanina, Z., Uhlík, F., François, J.-P., and Osawa, E.:** Thermodynamic Data Bases and Optical Isomerism (OP) 1047
- Srzić, D., Kazazić, S., Martinović, S., Paša-Tolić, Lj., Kezele, N., Vikić-Topić, D., Pečur, S., Vrančić, A., and Klasinc, L.:** FTMS of Natural Polymers (OP) 69
- Sturla, L.:** vidi Rosano, C.
- Sun, X.:** vidi Zhang, G. P.
- Szaran, J.:** vidi Saba, J.
- Šarić, A.:** vidi Musić, S.
- Šegedin, P.:** vidi Kozlevčar, B.
- Škare, D.:** vidi Novak, P.
- Štambuk, N.:** Universal Metric Properties of the Genetic Code (OP) . . . 1123
- Štambuk, N.:** vidi Konjevoda, P.
- Štambuk, N.:** vidi Pavan, J.

- Šunjić, V.:** vidi Avdagić, A.
- Tamhina, B., Gojmerac Ivšić, A., and Bartolinčić, A.:** Extraction and Characterization of Niobium(V) Thiocyanate Complexes (OP) 57
- Tamhina, B.:** vidi Gojmerac Ivšić, A.
- Tolić, I. M.:** vidi Nikolić, S.
- Tomaš, R., Višić, M., and Mekjavić, I.:** Thermodynamics of Cadmium Chloride in *t*-Butanol - Water Mixtures ($w_{t\text{-BuOH}} = 10\%$, 30% , and 50%) from Electromotive Force Measurements (OP) 423
- Tonetti, M.:** vidi Rosano, C.
- Torre, A.:** vidi Bochicchio, R.
- Trbojević-Čepe, M.:** vidi Pavan, J.
- Trinajstić, N.:** vidi Amić, D.
- Trinajstić, N.:** vidi Cimerman, Z.
- Trinajstić, N.:** vidi Lukovits, I.
- Trinajstić, N.:** vidi Nikolić, S.
- Tur'yan, Y. I.:** Polarographic Kinetic Currents of Formaldehyde and Kinetics of the Electrode Chemical Reactions (OP) 625
- Tur'yan, Y. I.:** Studying Kinetics of the Dehydration Reaction of Acetaldehyde in Aqueous Solutions Using Polarographic Kinetic Currents (OP) 657
- Uhlík, F.:** vidi Slanina, Z.
- Uršić, S.:** vidi Lovrek, M.
- Vančik, H.:** Chlorocarocations and Concept of the Electron Donating Ability (CP) 595
- Vaňura, P.:** vidi Daňková, M.
- Vasilić, Ž.:** vidi Periš, N.
- Veljković, J.:** vidi Mlinarić-Majerski, K.
- Vikić-Topić, D. and Pejov, Lj.:** Computational Studies of the ^{13}C and ^1H NMR Isotropic Chemical Shifts Using Density Functional Optimized Geometries. Adamantane and 2,4-Methano-2,4-dehydroadamantane (a [3.1.1]Propellane) as Case Studies (OP) 1057

Vikić-Topić, D.: vidi Graovac, A.

Vikić-Topić, D.: vidi Konjevoda, P.

Vikić-Topić, D.: vidi Novak, P.

Vikić-Topić, D.: vidi Srzić, D.

Vikić-Topić, S.: vidi Konjevoda, P.

Višić, M.: vidi Tomaš, R.

Vrančić, A.: vidi Srzić, D.

Vranješ, L. and Kilić, S.: Variational Study of Fermionic Helium
Dimer and Trimer in Two Dimensions (OP) 1087

Vranješ, L.: vidi Kilić, S.

Zakharchuk, N., Meyer, S., Lange, B., and Scholz, F.: A Com-
parative Study of Lead Oxide Modified Graphite Paste Elec-
trodes and Solid Graphite Electrodes with Mechanically Im-
mobilized Lead Oxides (OP) 667

Zhang, G. P., Sun, X., and George, Th. F.: Kinetic Energy-Based
Normal Mode Analysis of Electronic Processes in C₆₀ (OP) . . . 1077

Žutić, V.: vidi Kovač, S.