

BIBLIOGRAPHIA CHEMICA CROATICA

BCC-396

M. Branica and V. Pravdić
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia

**Reduction, Oxidation and Disproportionation of Uranium Ions
in Sodium Carbonate Solutions**

Polarography 1964. Proc. 3rd Int. Conf. Southampton,
Ed. G. J. Hills, Vol. 1, Macmillan, London, 1965, p. 435.

BCC-397

M. Petek, Lj. Jeftić, and M. Branica
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia

**Polarographic Investigation of Metal Acetylacetonates.
II. Cupric Acetylacetonates**

Polarography 1964. Proc. 3rd Int. Conf. Southampton,
Ed. G. J. Hills, Vol. 1, Macmillan, London, 1965, p. 491.

1966.

BCC-398

S. Ašperger, M. Orhanović, M. Pribanić,
and V. Reić

Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Department of Inorganic and Physical Chemistry, Faculty of Pharmacy
and Biochemistry, University of Zagreb, Zagreb, Yugoslavia

**Mechanism of Octahedral Substitutions in Non-aqueous Media.
Part III. Rates of Replacement Reactions in *trans*-Chloronitro-
and Dichlorobis (ethylenediamine) cobalt (III) Ions in Methanol and
Ethanol**

J. Chem. Soc. (A) 1966, 589.

BCC-399

Z. Ban and R. E. Ogilvie
Department of Metallurgy, Massachusetts Institute of Technology,
Cambridge, Mass., USA

The Role of Iron in the Oxidation of Molybdenum Disilicide

Trans. Met. Soc. AIME 236 (1966) 1738.

BCC-400

H. Bilinski, M. Branica, and L. G. Sillén
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia,
Department of Inorganic Chemistry, Royal Institute of Technology,
(KTH), Stockholm 70, Sweden

**Precipitation and Hydrolysis of Metallic Ions. II. Studies on the
Solubility of Zirconium Hydroxide in Dilute Solutions
and 1 M NaClO₄**

Acta Chem. Scand. 20 (1966) 853.

BCC-401

D. M. Bishop and M. Randić
Department of Chemistry, University of Ottawa, Ottawa, Canada

Ab Initio Calculation of Harmonic Force Constants

J. Chem. Phys. 44 (1966) 2480.

BCC-402

D. M. Bishop, M. Randić, and J. R. Morton
Department of Chemistry, University of Ottawa, Ottawa, Canada
and Division of Applied Chemistry, National Research Council,
Ottawa, Canada

**Electronic Structure of Sulfate, Thiosulfate, and Related Ions. I,
Calculation of Molecular Orbital Energy Levels**

J. Chem. Phys. **45** (1966) 1880.

BCC-403

M. Branica and J. Kuta
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia and
J. Heyrovsky Institute of Polarography, Czechoslovak Academy
of Sciences, Prague

**Polarographic Study of Reduction and Dismutation of Uranium
in Aqueous Solutions of Acetylacetone**

Collection Czech. Chem. Commun. **31** (1966) 2833.

GCC-404

B. Čosović and M. Branica
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia

**Polarographic Investigation of Metal Acetylacetonates. III.
Indium Acetylacetonates**

J. Polarog. Soc. **12** (1966) 5.

BCC-405

B. Čosović and M. Branica
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia

**Polarographic Investigations of Metal Acetylacetonates. IV.
Kinetics Parameters of the Electrochemical Reaction of
Indium Acetylacetonates**

J. Polarog. Soc. **12** (1966) 97.

BCC-406

O. Hadžija
Tracer Laboratory, Institute »Ruder Bošković«, Zagreb, Yugoslavia
**A Simple Method for the Microdetermination of Carbon and
Hydrogen Using Nitrogen as a Transport Gas**

Mikrochim. Acta (Wien) **1966**, 61.

BCC-407

A. Hinchliffe, I. N. Murrell, and N. Trinajstić
School of Molecular Sciences, University of Sussex, Brighton, England
**Calculations of the Energy Levels of Alternant
Hydrocarbon Anions**

Trans. Faraday Soc. **62** (1966) 1362.

BCC-408

B. Kamenar
Laboratory of General and Inorganic Chemistry, Faculty of Science,
The University, Zagreb, Yugoslavia

The Preparation of the Elemental Boron

Z. Anorg. Allgem. Chem. **342** (1966) 108.

BCC-409

B. Kamenar, C. K. Prout, and J. D. Wright
Inorganic Chemistry and Chemical Crystallography Laboratories,
South Parks Road, Oxford

**Molecular Complexes. Part V. The Crystal Structure of the 1:1
Complex of Bis-8-hydroxyquinolinatopalladium (II) and
1,2,4,5-tetracyanobenzene**

J. Chem. Soc. (A) **1966**, 661.

BCC-410

L. Klasinc, Z. Maksić, and M. Randić
Institute »Ruder Bošković«, Zagreb, Yugoslavia

Bent Bonds in Cycloalkanes

J. Chem. Soc. (A) **1966**, 755.

BCC-411

Ž. Kućan

Laboratory of Cellular Biochemistry, Institute »Ruder Bošković«, Zagreb

Inactivation of Isolated *Escherichia coli* Ribosomes by Gamma Irradiation

Radiation Res. **27** (1966) 229.

BCC-412

Z. Maksić, L. Klasinc, and M. Randić
Institute »Ruder Bošković«, Zagreb, Yugoslavia

Maximum Overlap Hybridization in Cyclobutane, Bicyclobutane and Related Highly Strained Systems

Theoret. chim Acta (Berl.) **4** (1966) 273.

BCC-413

S. Maričić* and G. Pifat

»Ruder Bošković« Institute and The University Institute of Biology,*
Zagreb, Yugoslavia

Proton Conductivity in Hydrated Solid Methaemoglobin and Na-DNA,

in *Elektrochemische Methoden und Prinzipien in der Molekular-Biologie*, Herausg. Herman Berg, Abhandlungen der Deutschen Akademie der Wissenschaften zu Berlin, Klasse für Medizin, Jahrgang 1966 Nr. 4, s. 63—73 (Akademie-Verlag Berlin, 1966).

BCC-414

E. Matijević and G. E. Janauer

Department of Chemistry and Institute of Colloid and Surface Science,
Clarkson College of Technology, Potsdam, New York, N. Y., USA

Coagulation and Reversal of Charge of Lyophobic Colloids by Hydrolyzed Metal Ions. II. Ferric Nitrate

J. Colloid. Sci. **21** (1966) 197.

BCC-415

E. Matijević and L. J. Stryker

Department of Chemistry and Institute of Colloid and Surface Science,
Clarkson College of Technology, Potsdam, New York, N. Y., USA

Coagulation and Reversal of Charge of Lyophobic Colloids by Hydrolyzed Metal Ions. III. Aluminum Sulfate

J. Colloid Sci. **22** (1966) 68.

BCC-416

E. Matijević, J. Leja, and R. Nemeth

Department of Chemistry and Institute of Colloid and Surface Science,
Clarkson College of Technology, Potsdam, New York, N. Y., USA

Precipitation Phenomena of Heavy Metal Soaps in Aqueous Solutions. I. Calcium Oleate

J. Colloid Sci. **22** (1966) 419.

BCC-417

E. Matijević, S. Kratochvil, and L. J. Stryker

Department of Chemistry and Institute of Colloid and Surface Science,
Clarkson College of Technology, Potsdam, New York, N. Y., USA

Stabilization of Lyophobic Colloids by Hydrolyzed Metal Ions

Discussions Faraday Soc., **1966**, No. 42, 187.

BCC-418

J. R. Morton, D. M. Bishop, and M. Randić
Department of Chemistry, University of Ottawa, Ottawa, Canada,
and Division of Applied Chemistry, National Research Council,
Ottawa, Canada

**Electronic Structure of Sulfate, Thiosulfate, and Related
Ions. II. ESR Spectra of SO_4^- and S_2O_3^-**

J. Chem. Phys. **45** (1966) 1885.

BCC-419

I. N. Murrell, I. G. Stamper, and N. Trinajstić
School of Molecular Sciences, University of Sussex, Brighton, England

Localized Orbitals of Water

J. Chem. Soc. (A) **1966**, 1624.

BCC-420

M. Pećar

Institute of Analytical Chemistry, Faculty of Pharmacy and Biochemistry,
University of Zagreb, Zagreb, Yugoslavia

**Volume and Rate of Delivery of Horizontal Capillary
Microburets**

Microchem. J. **11** (1966) 408.

BCC-421

M. Pećar

Zavod za kemiju, Farmaceutsko-biokemijski fakultet, Zagreb, Medicinsko-
kemijski institut i Pregl-ov laboratorij Sveučilišta, Graz, i Max-Planck
institut za medicinska istraživanja, Heidelberg

**Neka iskustva o kvantitativnoj mikroanalizi glavnih organogenih
elemenata**

Acta Pharm. Jugoslav. **16** (1966) 151.

BCC-422

M. Randić and Z. Maksić

Institute »Ruder Bošković«, Zagreb, Yugoslavia

**Ligand Field Splitting in Seven Coordinated NbF_7^{2-} -Type
Complexes**

Theoret. chim. Acta (Berl.) **4** (1966) 145.

BCC-423

M. Randić, J. M. Jerkunica, and L. Klasinc

Institute »Ruder Bošković«, Zagreb, Yugoslavia

**Hybridization in Methylenecyclopropane and Related
Molecules Having Exocyclic Double Bonds**

Theoret. chim. Acta **6** (1966) 240.

BCC-424

M. Randić, D. Stefanović, and L. Klasinc

Institute »Ruder Bošković«, Zagreb, Yugoslavia

**Investigation of Hybridization in Methyl Substituted
Cyclopropanes by the Method of Maximum Overlap**

Acta Chim. Acad. Sci. Hung. **50** (1966) 287.

BCC-425

W. H. Saunders, Jr., A. F. Cockerill, S. Ašperger,
L. Klasinc, and D. Stefanović

Chemistry Department, University of Rochester, Rochester, New York 14627.
Department of Physical Chemistry, Institute »Ruder Bošković«,
Department of Chemistry, Faculty of Pharmacy and Biochemistry,
University of Zagreb, Zagreb, Yugoslavia

**The Sulfur Isotope Effect in the E_2 Reaction of
2-Phenylethylidimethylsulfonium Bromide with Hydroxide Ion.
A Correction**

J. Am. Chem. Soc. **88** (1966) 848.

BCC-426

B. Tomažič and S. Siekierski
Institute of Nuclear Research, Warsaw, Zeran
**Separation of Some Fission Products from Uranium (VI)
by Reversed-Phase Partition Chromatography**

J. Chromatog. **21** (1966) 98.

1967.

BCC-427

Z. Ban and M. Sikirica
Institute for Inorganic and Analytical Chemistry, University of Zagreb,
and Institute »Ruder Bošković«, Zagreb, Yugoslavia.

X-Ray Studies in the System $\text{ThNi}_5-x\text{Al}_x$

J. Less-Common Metals **12** (1967) 478.

BCC-428

Z. Ban and M. Sikirica
Institute for Inorganic and Analytical Chemistry, University of Zagreb,
and Institute »Ruder Bošković«, Zagreb, Yugoslavia

Uranium-Transition Metal Silicides of the AB_2X_2 Composition

Z. Anorg. Allgem. Chem. **354** (1967) 270.

BCC-429

A. Barić and M. Branica
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia

**Polarography of Sea Water. I. Ionic State of Cadmium and Zinc
in Sea Water**

J. Polarog. Soc. **13** (1967) 4.

BCC-430

S. Carter, J. N. Murrell, E. J. Rosch, N. Trinajstić,
and P. A. H. Wyatt

The Chemical Laboratory, University of Sussex, Brighton, and Department
of Chemistry, University of Sheffield, England

**The Kinetics of Unsymmetrical Quinone Hydroquinone
Redox Reactions**

J. Chem. Soc. (A) **1967**, 477.

BCC-431

M. Cohn, A. Kowalsky, J. S. Leigh, Jr, and S. Maričić
The Johnson Research Foundation, University of Pennsylvania,
Philadelphia, Pennsylvania 19104, USA

**Narrowing of Proton Resonances of Macromolecules by Spinning
at an Angle of 54.7°**

in *Magnetic Resonance in Biological Systems*, Eds. A. Ehrenberg,
B. G. Malmström and T. Vänngård, Wenner-Gren Center Interna-
tional Symposium Series, Vol. 9, p. 45—48, Pergamon Press,
Oxford, 1967.

BCC-432

T. A. Dobson, D. Desaty, D. Brewer, and L. C. Vining
Prairie Regional Laboratory, National Research Council of Canada,
Saskatoon, Saskatchewan, Canada, and Atlantic Regional Laboratory,
National Research Council of Canada, Halifax, Nova Scotia, Canada

Biosynthesis of Fusaric Acid in Cultures of *Fusarium*

Oxysporum Schlecht

Can. J. Biochem. **45** (1967) 809.

BCC-433

D. Keglević and L. Stančić
Tracer Laboratory, Institute »Ruder Bošković«, Zagreb, Yugoslavia

**The Synthesis of Serotonin ^{14}C -labelled in the Ring
(5-hydroxytryptamine-3- ^{14}C)**

J. Labelled Compds. **3** (1967) 144.

BCC-434

L. Klasinc, D. Schulte-Frohlinde, and M. Randić
Kernforschungszentrum Karlsruhe, Institut für Strahlenchemie, Karlsruhe,
Deutschland, and Institute »Ruder Bošković«, Zagreb, Yugoslavia
**Overlap Integrals of Clementi Orbitals for Bonds Involving
Some First Row Atoms**

Theoret. chim. Acta (Berl.) 8 (1967) 358.

BCC-435

S. Kratochvil and E. Matijević
Department of Chemistry and Institute of Colloid and Surface Science,
Clarkson College of Technology, Potsdam, New York, 13676
**Coagulation and Reversal of Charge of Lyophobic Colloids
by Hydrolyzed Metal Ions. IV. Chromium (III) Nitrate
and Perchlorate**

J. Colloid and Interface Sci. 24 (1967) 47.

BCC-436

Z. Maksić and M. Randić
Institute »Ruder Bošković«, Zagreb, Yugoslavia
Ligand Field Matrix Elements for f-Electrons

Theoret. chim. Acta (Berl.) 7 (1967) 253.

BCC-437

S. Maričić, A. Ravilly, and A. S. Mildvan
The Johnson Research Foundation, University of Pennsylvania,
Philadelphia, Pennsylvania 19104, USA.

**Proton Relaxation Measurements of Dissolved and
Crystalline Methaemoglobin and Metmyoglobin**

in *Hemes and Hemoproteins*, Eds. B. Chance, R. W. Estabrook and
T. Yonetani, Academic Press, New York, 1967, p. 157.

BCC-438

S. Maričić, J. S. Leigh, Jr., and D. E. Sunko

The University Institute of Biology, Zagreb, Yugoslavia
The Johnson Research Foundation, University of Pennsylvania School
of Medicine, Philadelphia, Pennsylvania, and Institute »Ruder Bošković«,
Zagreb, Yugoslavia

Oxygen Bonding in Haemoglobin

Nature 214 (1967) 462.

BCC-439

M. Pećar, E. Štraub und J. Lemberger

Institute für Analytische Chemie der Pharmazeutischen Fakultät Zagreb
(Jugoslawien)

Zur Kaliumbestimmung der pharmazeutischen Kaliumpräparate

Pharmazie 22 (1967) 158.

BCC-440

M. Petek, J. Kuta, and M. Branica

Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Yugoslavia and J. Heyrovsky Institute of Polarography, Czechoslovak
Academy of Sciences, Prague

Cupric Acetylacetonates and their Adsorption on Mercury

Collection Czech. Chem. Commun. 32 (1967) 3510.

BCC-441

J. R. Plimmer, N. Pravdić, and H. G. Fletcher, Jr.

National Institute of Arthritis and Metabolic Diseases, National Institutes
of Health, Public Health Service, U. S. Department of Health, Education
and Welfare, Bethesda, Maryland 20014

Benzyl Glycosides from 2-Acetamido-2-deoxy-D-mannose.

**Benzyl 2-Acetamido-2-deoxy- α -D-mannofuranoside and
Related Derivatives**

J. Org. Chem. 32 (1967) 1982.

BCC-442

N. Pravdić and H. G. Fletcher, Jr.

National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Public Health Service, U. S. Department of Health, Education and Welfare, Bethesda, Maryland 20014

The Behavior of 2-Acetamido-2-deoxy-D-mannose with Isopropenyl Acetate in the Presence of *p*-Toluenesulfonic Acid. I. Isolation and Identification of Derivatives of 2-Amino-D-glucal (2-Amino-1,2-dideoxy-D-arabino-hex-1-enopyranose) and of Other Products*J. Org. Chem.* **32** (1967) 1806.

BCC-443

N. Pravdić and H. G. Fletcher, Jr.

National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Public Health Service, U. S. Department of Health, Education and Welfare, Bethesda, Maryland 20014

The Behavior of 2-Acetamido-2-deoxy-D-mannose with Isopropenyl Acetate in the Presence of *p*-Toluenesulfonic Acid. II. Evidence Bearing on the Mechanism of the Formation of 3,4,6-Tri-O-acetyl-2-(*N*-acetylacetamido)-1,2-dideoxy-D-arabino-hex-1-enopyranose and of 2-(D-glycero-1,2-Diacetoxyethyl)-4-(*N*-acetylacetamido) furan*J. Org. Chem.* **32** (1967) 1811.

BCC-444

N. Pravdić, T. D. Inch, and H. G. Fletcher, Jr.

National Institute of Arthritis and Metabolic Diseases, National Institutes of Health, Public Health Service, U. S. Department of Health, Education and Welfare, Bethesda, Maryland 20014

The Formation of Acetylated Oxazolines through the Action of Zinc Chloride and Acetic Anhydride on 2-Acylamino-2-deoxyaldoses*J. Org. Chem.* **32** (1967) 1815.

BCC-445

V. Pravdić, E. McCafferty, and A. C. Zettlemyer
Center for Surface and Coatings Research, Lehigh University, Bethlehem, Pa., U. S. A.**Adsorption Studies on Metals and Elemental Semiconductors. XII. Water on *p*-Type Germanium Powders***Surface Sci.* **7** (1967) 380.

BCC-446

M. Randić and S. Borčić

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Hybridisation in Several Small Ring Olefins Calculated by the Method of Maximum Overlap*J. Chem. Soc. (A)* **1967**, 586.

BCC-447

M. Randić and N. Trinajstić

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Semiempirical Calculations of Bond Lengths in Cyclopentadienyl Ligands*J. Chem. Phys.* **46** (1967) 1469.

BCC-448

J. G. Stamper and N. Trinajstić

The Chemical Department, University of Sussex, Brighton, England

Localized Orbitals for Some Simple Molecules*J. Chem. Soc. (A)* **1967**, 782.

BCC-449

N. Trinajstić and Z. Majerski
Institute »Ruder Bošković«, Zagreb, Yugoslavia
Reactivity of Thiophthenes; a Theoretical Study
Z. Naturforschg. **22a** (1967) 1475.

BCC-450

V. Žutić and M. Branica
Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb,
Croatia, Yugoslavia
Electrochemical Reduction of UO_2^{2+} — Me_2CO_3 — H_2O_2 Solutions.
I. Polarographic and Coulometric Study in 1 M Na_2CO_3
J. Polarog. Soc. **13** (1967) 9.