

DCC-24

- 1. The Electronic Structure of So-me Polyatomic Molecules
- I. Trinajstić N.
- II. Institute »Ruđer Bošković«, Za-greb, Croatia, Yugoslavia

- Bond moments Equivalent orbitals Lone pair moments Molecular orbital calculations of, -, anthracene, mono- and di-negative ions -, naphthalene, mono- and di-

 - negative ions -, tetracene, mono-, di- negative and mono-positive ions



MCC-27

- 1. Determination of Thorium and Uranium in Biological Materials by Activation Analysis
- I. Picer M.
- FICET M.
 II. Institute for Medical Research, Yugoslav Academy of Sciences and Arts, Zagreb, Croatia, Yu-goslavia

Thorium, in human	blood
—. in bones	
—, in faeces	
—, in urine	
Uranium, in human	blood
—, in bones	
- in factor	

—, in faeces —, in urine

BIBLIOGRAPHIA CHEMICA CROATICA



MCC-28 1. Electrochemical Study of $UO_2^{2+} - H_2O_2 - 1M Na_2CO_3$ Aqueous Solutions Polarography, of uranyl complexes Uranyl carbonate complexes, re-duction of Uranyl peroxodicarbonate com-plex, reduction of Voltanmetry, cyclic, of uranyl complexes ł I. Žutić V. II. Institute »Ruđer Bošković«, Za-greb, Croatia, Yugoslavia complexes ui 11° 🔍

9**B**



MCC-29

1. Precipitation and Hydrolysis of Rare Earth Elements in Distilled Water and in Sea Water

I. Pokrić B.

II. Institute »Ruđer Bošković«, Zagreb, Croatia, Yugoslavia Precipitation, of rare earth Rare earth, precipitation of Sea water, precipitation of rare earth in

BIBLIOGRAPHIA CHEMICA CROATICA

BCC-346

1960

S. Ašperger, I. Murati, and D. Pavlović Institute of Inorganic and Physical Chemistry, Faculty of Pharmacy, University of Zagreb and Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb, Croatia, Yugoslavia Kinatics and Mechanism of the Decomposition of Complex

Kinetics and Mechanism of the Decomposition of Complex Cyanides of Iron(II) and Molybdenum(IV)

J. Chem. Soc. 1960, 730.

BCC-347

S. Ašperger and N. Ilakovac

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

Secondary Isotope Effect in the Hydrolysis of a Sulphonium Ion Chem. Ind. (London) 1960, 1191.

BCC-348

A. Bezjak and D. Grdenić Department of Structural and Inorganic Chemistry, Institute »Ruder Bošković«, Zagreb, Yugoslavia

The Crystal Structure of Mellitic Acid

Nature (London) 185 (1960) 756.

BCC-349

D. Grdenić i D. Pavković-Sevdić Odjel za strukturnu i anorgansku kemiju Instituta »Ruđer Bošković«, Zagreb, Jugoslavija

Galij u jugoslavenskim boksitima

Rad Jugoslavenske Akad. znan. umjet. 319 (1960) 167.

1961

BCC-350

S. Ašperger, D. Pavlović, and M. Orhanović Department of Physical Chemistry, Institute »Ruder Bošković«, Zagreb, and Department of Inorganic and Physical Chemistry, Faculty of Pharmacy, University of Zagreb, Zagreb, Yugoslavia

Mechanism of Substitution of Chlorine in *cis-* and *trans-*-Chloronitrobis (ethylenediamine) cobalt(III) Ions by Thiocyanate in Methanol

J. Chem. Soc. 1961, 2142.

BCC-351

S. Ašperger, N. Ilakovac, and D. Pavlović Department of Physical Chemistry, Institute »Ruđer Bošković«, Zagreb, and Department of Inorganic and Physical Chemistry, Faculty of Pharmacy, University of Zagreb, Zagreb, Yugoslavia

Secondary Deuterium Isotope Effects in Bimolecular Elimination of 2-Phenylethyl-1, $1-d_2$ Bromide and 2-Phenylethyldimethyl-sulfonium-1, $1-d_2$ Bromide

J. Am. Chem. Soc. 83 (1961) 5032.

C. Djordjević

Department of Structural and Inorganic Chemistry, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Metal-Oxygen Vibration Modes in the Infrared Spectra of Aluminium, Gallium and Indium Tris-Acetylacetonates Spectrochim. Acta 17 (1961) 448.

BCC-353

D. Grdenić and B. Kamenar

Department of Structural and Inorganic Chemistry, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Structures Involving Unshared Electron Pair: Pyramidal Configuration of Trichlorostannite Ion

Proc. Chem. Soc. (London) 1961, 304.

BCC-354

B. Kamenar and D. Grdenić

Department of Structural and Inorganic Chemistry, Institute »Ruđer Bošković«, Zagreb, Yugoslavia

The Crystal Structure of Stannous Chloride Dihydrate J. Chem. Soc. 1961, 3954.

BCC-355

I. Murati and S. Ašperger

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

Colorimetric Determination of Small Amounts of Aquopentacyanoferrate(II) in the Presence of Ferro- and Ferricyanide

Anal. Chem. 33 (1961) 809.

1963

BCC-356

Z. Ban and M. Sikirica

Institute »Ruder Bošković«, Zagreb, Yugoslavia Crucible-Free Synthesis of Silicides and Borides New Nuclear Materials including Non-metallic Fuels, Vol. II, IAEA, Vienna, 1963, p. 175.

BCC-357

R. Blinc, I. Zupančič, S. Maričić, and Z. Veksli Nuclear Institute »Jožef Stefan«, Ljubljana, and Institute »Ruđer Bošković«, Zagreb, Yugoslavia Anisotropy of Fluorine Chemical Shift Tensor in XeF4

J. Chem. Phys. 39 (1963) 2109.

BCC-358

Đ. Irutek, E. Jungman, S. Maričić, and M. Zovko Institute of Light Metals, Zagreb, and Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Solubilities of Boehmite from Yugoslav Bauxites

I. Intern. Symp. on Bauxites, Alum. Hydroxides and Oxides, Zagreb, 1963, JAZU, Vol. II., p. 181.

E. Jungaman, K. Klarić, S. Maričić, and Z. Meić Institute »Ruđer Bošković«, Zagreb, and Institute of Light Metals, Zagreb, Yugoslavia

A Proton Magnetic Resonance and Infrared Study in the Series: Aluminium Hydroxide Gel, Pseudoboehmite, Boehmite

I. Intern. Symp. on Bauxites, Alum. Hydroxides and Oxides, Zagreb, 1963, JAZU, Vol. II, p. 137.

BCC-360

M. Sikirica and Z. Ban

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

New Phase in the System Uranium-Molybdenum-Silicon New Nuclear Materials including Non-metallic Fuels, Vol. II., IAEA, Vienna, 1963, p. 229.

BCC-361

L. Träger, A. Kornhauser, and A. Wacker Institut für Therapeutische Biochemie der Universität Frankfurt, Frankfurt am Main, Germany

1964

The Tritium Isotope Effect in Pyrimidines

Proc. Conf. on Methods of Prep. Storing Marked Mol., Bruxelles (1963) 1217.

BCC-362

J. Čaja and V. Pravdić Institute »Ruđer Bošković«, Zagreb, Yugoslavia Electrochemical Reduction of Uranium(VI) at Mercury Electrodes in Carbonate Solutions J. Electroanal. Chem. 8 (1964) 390.

BCC-363

D. Grdenić and B. Korpar-Čolig Laboratory of General and Inorganic Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia Another Preparation Method of Vanadium(III) and Uranium(IV) 1,3-Diketone Complexes

Inorg. Chem. 3 (1964) 1328.

BCC-364

S. Maričić, G. Pifat, and V. Pravdić Institute »Ruđer Bošković«, Zagreb, Yugoslavia Hydration of Haemoglobin and its Reversible Oxygenation Ber. Bunsenges. Phys. Chem. 68 (1964) 787.

BCC-365

V. Pravdić, M. Branica, and Z. Pučar Institute »Ruđer Bošković«, Zagreb, Yugoslavia Uranium Dioxide Production. A Survey of Electrochemical Reduction and Precipitation from Carbonate Solutions

3rd Int. Conf. PUAE (Geneve) 1964, P/703.

BCC-366

M. Randić

Department of Chemistry, University of Sheffield, England The Splitting of *d*-Orbitals in Less Symmetrical Molecules Containing a Cyclopentadienyl Ligand Theoret. Chim. Acta 2 (1964) 468.

A. Wacker, H. Dellweg, L. Träger, A. Kornhauser, E. Lodemann, G. Türck, R. Selzer, P. Chandra, and M. Ishimoto

Institut für Therapeutische Biochemie der Universität Frankfurt, Frankfurt am Main, Germany

Organic Photochemistry of Nucleic Acids

Photochem. and Photobiol. 3 (1964) 369.

BCC-368

1965

S. Ašperger, D. Pavlović, L. Klasinc, and I. Murati

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

 α -Hydrogen Exchange in the Reaction of 2-Phenylethyldimethylsulphonium Bromide with Deuteroxide in Deuterium Oxide Solution

Spec. Publ. No. 19 Chem. Soc. (London) 1965, 173. (Intern. Symp.) Cork.)

BCC-369

Z. Ban and M. Sikirica

Institute »Ruđer Bošković«, Zagreb, Yugoslavia The Crystal Structure of Ternary Silicides ThM₂Si₂ (M = Cr, Mn, Fe, Co, Ni and Cu) Acta Cryst. 18 (1965) 594.

BCC-370

C. Djordjević

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Co-ordination Complexes of Niobium and Tantalum — II. Metalhalogen Bond Frequencies in Some Complexes in the Infrared Spectrochim. Acta 21 (1965) 301.

BCC-371

C. Djordjević

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Metal-Oxygen Stretching Frequencies in Some Metal -Nitroacetylacetonates in Solid and Solution Infrared Spectra Spectrochim. Acta 21 (1965) 1018.

BCC-372

W. F. Espenscheid, E. Willis, E. Matijević, and M. Kerker

Department of Chemistry, Clarkson College of Technology, Potsdam, New York, USA

Aerosol Studies by Light Scattering IV. Preparation and Particle Size Distribution of Aerosols Consisting of Concentric Spheres J. Colloid Sci. 20 (1965) 501.

BCC-373

D. Grdenić Laboratory of General and Inorganic Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia The Structural Chemistry of Mercury

Quart. Rev. 19 (1965) 303.

D. Grdenić and B. Kamenar Laboratory of General and Inorganic Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia Structure Involving Unshared Elelectron Pair: Co-ordination of Antimony in Racemic Potassium Antimonyl Tartrate

Acta Cryst. 19 (1965) 197.

BCC-375

M. Grdinić and V. Hahn

Department of Organic Chemistry and Biochemistry, Institute »Ruder Bošković«, Zagreb, and Laboratory of Organic Chemistry, Faculty of Technology, University of Zagreb, Zagreb, Yugoslavia

Chemistry of Imidoyl and Amide Chlorides. II. On the Preparation and Properties of the N-Mono- and N,N-Dialkyl-Substituted Amide Halides

J. Org. Chem. 30 (1965) 2381.

BCC-376

M. J. Herak and M. Mirnik

Laboratory of Radiochemistry, Institute »Ruđer Bošković«, Zagreb, and Laboratory of Physical Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia

Determination of the Ion Adsorption by the Radioactive Tracer Technique. V. Influence of the Dispersity of AgI, of the Valency of Counter Ions, of the Dilution of the Mother Liquor and of pH *Kolloid-Z. Polymere* **205** (1965) 129.

BCC-377

B. Kamenar, B. F. Hoskins, and C. K. Prout Chemical Crystallography Laboratory, University of Oxford, Oxford, England

The Molecular Structure of Eschenmoser's »pseudo-corrin« Proc. Roy. Soc. (London), Ser. A 288 (1965) 331.

BCC-378

B. Kamenar, and C. K. Prout

Chemical Crystallography Laboratory, University of Oxford, Oxford, England

Molecular Complexes. Part I. The Crystal and Molecular Structure of the 1:1 Adduct of Benzotrifuroxan and 13,14-Dithiatricyclo (8, 2, 1, 1^{4,7}) tetradeca-4,6,10,12-tetraene J. Chem. Soc. A 1965, 4838.

BCC-379

B. Kamenar, C. K. Prout, and J. D. Wright

Chemical Crystallography Laboratory, University of Oxford, Oxford, England

Molecular Complexes. Part II. The Crystal Structure of the 1:1 Complex of Bis-8-hydroxyquinolinatopalladium(II) and Chloranil

J. Chem. Soc. A 1965, 4851.

BCC-380

W. Kemula, Lj. Jeftić, and Z. Galus

Department of Inorganic Chemistry, University of Warsaw, Warsaw, Poland

Electrochemistry of Nickel Complexes with Clathrate Forming Agents

Bull. Acad. Pol. Sci. Ser. Sci. Chim. 13 (1965) 493.

W. Kemula, Lj. Jeftić, and Z. Galus

Department of Inorganic Chemistry, University of Warsaw, Warsaw, Poland

Electrochemical Investigation of Nickel Pyridine and Nickel-Picoline Complexes

J. Electroanal. Chem. 10 (1965) 387.

BCC-382

A. Kornhauser and R. F. Nystrom

Radiocarbon Laboratory, University of Illinois, Urbana, Ill., U.S.A. Determination of Carbon-14 and/or Tritium in the Methyl Group of Organic Compounds. Isotopic C-methyl Analysis J. Labelled Comds. 1 (1965) 201.

BCC-383

S. Kveder and S. Iskrić

Institute »Ruđer Bošković«, Zagreb, Yugoslavia 5-Hydroxytriptamine Metabolism by the Nuclear Fraction of Rat-Liver Homogenate

Biochem. J. 94 (1965) 509.

BCC-384

B. Ladešić and D. Keglević

Institute »Ruder Bošković«, Zagreb, Yugoslavia Biochemical Studies in Tobacco Plants II. The Metabolism of the Optical Isomers of α - and β -Methionine in Nicotiana Rustica Arch. Biochem. Biophys. 111 (1965) 653.

BCC-385

J. N. Murrell, M. Randić, and D. R. Williams University of Sheffield, Sheffield, England **The Theory of Intramolecular Forces in the Region of Small Orbital Overlap**

Proc. Roy. Soc. (London), Ser. A 284 (1965) 566.

BCC-386

N. Pravdić and D. Keglević Institute »Ruđer Bošković«, Zagreb, Yugoslavia Glucuronic Esters III. The Synthesis of the Fully Benzylated C-1 Hydroxyl Free Glucuronic Acid Tetrahedron 21 (1965) 1897.

BCC-387

M. Randić and Z. Maksić

Institute »Ruder Bošković«, Zagreb, Yugoslavia Maximum Overlap Hybridization in Cyclopropane and Some Related Molecules

Theoret. Chim. Acta 3 (1965) 59.

BCC-388

C. Smart, R. Jacobsen, M. Kerker, J. P. Kratohvil, and E. Matijević

Clarkson College of Technology, Potsdam, N. Y., U.S.A. **Experimental Study of Multiple Light Scattering** J. Opt. Soc. Am. 55 (1965) 947.

S. Šćavničar and B. Prodić Institute »Ruđer Bošković«, Zagreb, and Faculty of Science, University of Zagreb, Zagreb, Yugoslavia The Crystal Structure of Double Nitrate Octahydrates of Thorium and Bivalent Metals

Acta Cryst. 18 (1965) 698.

BCC-390

N. Trinajstić and M. Randić Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Maximum Overlap Hybridization in Methyl Substituted Cyclopropanes

J. Chem. Soc. A 1965, 5621.

BCC-391

M. Vlatković and S. Kaučić

Institute »Ruđer Bošković«, Zagreb, Yugoslavia

Chemical State of Radiobromine Formed by the \mathbf{Rb}^{s_5} (n, α) \mathbf{Br}^{s_2} Reaction

Chemical Effects of Nuclear Transformations, Vol. II, IAEA, Vienna, 1965, p. 3.

BCC-392

A. Wacker, A. Kornhauser, and L. Träger Institut für Therapeutische Biochemie der Universität Frankfurt, Frankfurt am Main, Germany

Isotopeneffekte bei der chemischen Umwandlung von Tritiummarkiertem Uracil

Z. Naturforschg. 20b (1965) 1043.

BCC-393

R. H. H. Wolf, M. Mirnik, and B. Težak Laboratory of Radiochemistry, Institute »Ruder Bošković«, Zagreb, and Department of Physical Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia

Heterogeneous Exchange of Precipitates. V. Exchange between an Aqueous Ferric Chloride Solution and Ferric (Hydr)oxides Differently Treated after the Precipitation

Kolloid-Z. Polymere 205 (1965) 111.

BCC-394

R. H. H. Wolf, M. Mirnik, and B. Težak Laboratory of Radiochemistry, Institute »Ruđer Bošković«, Zagreb, and Department of Physical Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia

Heterogeneous Exchange of Precipitates. VI. Exchange of Ferric Ion between an Aqueous Ferric Chloride Solution and Colloidal Beta Ferric Oxide Monohydrate Obtained by Slow Hydrolysis

Kolloid-Z. Polymere 205 (1965) 118.

BCC-395

R. H. H. Wolf

Laboratory of Radiochemistry, Institute »Ruđer Bošković«, Zagreb, and Department of Physical Chemistry, Faculty of Science, University of Zagreb, Zagreb, Yugoslavia

Heterogeneous Exchange of Precipitates. VII. Fraction Exchange Calculation when the Composition of the System Changes During the Experiment

Kolloid-Z. Polymere 205 (1965) 120.