Journal of Chemical Research, Issue 10, 1990

Other papers in the subject areas covered by J. Chem. Soc. are published in synopsis/microform format in J. Chem. Research. For the benefit of readers of J. Chem. Soc., the contents list of J. Chem. Research (S), Issue 10, is reproduced below.

- 299 The Acidity of Weak Carbon Acids. Part 3. The Kinetic Acidities of Substituted Benzyl Cyanides using Secondary Aliphatic (M 2474) Amines and Guanidines as Bases Keith Bowden, Nighat S. Nadvi, and (in part) Richard J. Ranson 300 Studies on Polyfunctional O-Ligands. Formation Thermodynamics of Simple and Mixed Alkali Metal Complexes with Citrate at (M 2316) Different Ionic Strengths in Aqueous Solution Pier G. Daniele, Alessandro De Robertis, Concetta De Stefano, Antonio Gianguzza, and Silvio Sammartano 302 Reactions of Acyl Silanes with Fluoride Ion Philip C. Bulman Page and Stephen Rosenthal (M2351)304 Synthesis of trans-Dicyanoperhydrotetra-aza-anthracenes and -phenanthrene by a Transannular Addition of Hydrogen Cyanide to 1,4,8,11-Tetra-azacyclotetradecatetraenes Bohdan Korybut-Daszkiewicz and Ryszard A. Koliński (M 2364) The Synthesis and Chemistry of Azolenines. Part 20. Isolation of 3H-Pyrrole-5-carboxylate Esters and Fragmentation Products 306 (M 2401) from the Reaction beween 2,2-Disubstituted 1,3-Diketones and Glycine Ethyl Ester Hydrochloride Sze-Ming Lee and Michael P. Sammes 308 Preparation of Certain Pyrido[1,2-a]pyrimidinones and Related Compounds as Candidate Fluorescent Probes for Hypoxic Cells (M2411)in Solid Tumours John Parrick and Harshad K. Rami Synthesis and Chemical Reactivity of 4,4-Disubstituted Pyranamines Nazario Martín-León, José L. Segura, Carlos Segura, 310 (M2434)and José L. Soto The Ternary System H₂O-SrCl₂-BaCl₂: Isotherms at -15, -10.3, -8, 0, 25, and 85 °C Richard Tenu and Jean-Jacques 312 (M2453)Counioux 314 The 'Type D' Synthetic Route to Pyrido[4,3-b]carbazoles and their Analogues; the Synthesis of 7,8,9-Trimethoxyellipticine (M2501)Robin J. Hall, Anthony H. Jackson, Ana M. F. Oliveira-Campos, and Patrick V. R. Shannon 316 Crystal Structures of 3-Hydroxy-1,2-dimethylpyridin-4(1H)-one: an Iron(III) Chelation Study R. C. Hider, P. D. Taylor, M. (M2520)Walkinshaw, J. L. Wang, and D. van der Helm 318 Proton NMR Study of Semi-Synthetic Analogues of the lonophore Calcimycin (A.23187) in their Acid Form Michelle Prudhomme, Gérard Dauphin, Fouzia Samih, and Georges Jeminet (-)320 Unsaturated Thiolates and Derivatives from Thiocyanates

 - Michel Giffard and (in part) Isabelle Léauté (-)
 - 322 Reaction of Phthalonitrile with Alkoxide lons
 - Isabelle Chambrier and Michael J. Cook (-)
 - 324 Synthesis of 1-Acyl-1,3-dimethoxyacetones
 - Xu-sheng Zhang, Jun Zhu, Shu-xin Chen, Hui-tong Tang, and Pang Zhang (-)
 - 326 Reaction of Trichloromethyl Anions with Anhydrides
 - (-)Wasfy N. Wassef and Nadia M. Ghobrial
 - 328 Synthesis of Bis(imidazolato)dialkyltin(ıv) and Covalent Tin(ıı) Imidazolate Derivatives
 - (-)Zafar Ahmad Siddiqi, Shahla Nusrat Qidwai, and Mohammad Shakir
 - 330 Diazidobis(benzotriazol-1-yl)methane and a Novel Route to 2H-Imidazoles Alan R. Katritzky, Leszek Wrobel, and G. Paul (-)Savage
 - 332 Synthesis of a Novel Organo-selenium-sulphur Heterocycle: Dibenzo-1,2,5-dithiaselenepine Harkesh B. Singh and S. Kalyan (--)
 - 334 Telastaside, a Stress-related Alkaloid-conjugate from Polytela gloriosa, an Insect feeding on Amaryllidaceae Shibnath Ghosal, (-)Kaushik Datta, Sushil K. Singh, and Yatendra Kumar
 - 336 Azepinones. Part 5. Base-induced Ring Contraction of N-Substituted 1H-Azepin-3(2H)-ones Hamish McNab and Lilian C. (-)
 - 338 Conformational Isomerism and Cyclic Dimerization of N, N'-Diphenylformamidine. Infrared Spectroscopic Evidence Ewa D. Raczynska and Christian Laurence (-)
 - 340 Oxidative Behaviour of Glycerophosphates in the Presence of Hexachloroiridate(iv) in Acid Medium Kalyan Kali Sen Gupta (-)and Balaram Ghosh
- 342 Reactions of Allylic Carbonates derived from Carbohydrates catalysed by Palladium Complexes: Application to the Allylation of (M2301)Carbohydrates Rajae Lakhmiri, Paul Lhoste, Paul Boullanger, and Denis Sinou

N.B. The numbers in parentheses, prefaced by M, indicate the first frame occupied by the full-text version of the paper in J. Chem. Research (M). Where no such number is given, the paper as published in J. Chem. Research (S) is complete in itself, and there is no extra material in Part M.

ROYAL SOCIETY OF CHEMISTRY

NEW PUBLICATIONS

Dynamic Properties of Biomolecular Assemblies

Edited by S.E. Harding, *University of Nottingham* and A.J. Rowe, *University of Leicester.*

In this important new book the authors have sought to cover recent advances in a range of techniques that can be regarded as 'Dynamic' (Hydrodynamics, NMR, Dynamic Light Scattering, Fluorescence Anisotropy Decay and Electro-Optics), and their application to specific assemblies of biological macromolecules: assemblies involving proteins, nucleic acids and glycoconjugates. Some important advances in the capture and analysis of data (in many cases of the notoriously difficult 'multi-exponential' type) are identified, In vivo, assemblies of biological macromolecules do not always exist in a dilute solution environment – normally far from it – and some attention is paid to the dynamic properties of more concentrated dispersions.

Special Publication No 74 Hardcover viii+376 pp ISBN 0 85186 896 7 (1989) Price £45.00

Biochemical Approaches to Cellular Calcium

Methodological Surveys in Biochemistry and Analysis Volume 19(B)

Edited by Eric Reid, Guildford Academic Associates, G.M.W. Cook, University of Cambridge and J.P. Luzio, University of Cambridge.

Methodological Surveys in Biochemistry and Analysis is divided into two sub-series, A: Analysis and B: Biochemistry, which are published alternately. A: Focuses on determining drugs in body fluids, the study of trace organics, and subtle chromatography. B: Focuses on cellular aspects of biochemistry, with different themes relevant to biochemical pharmacology including endocrincology, pathology and muscle function. Each book is an integrated compendium of edited articles, with authorative international authorship. All volumes contain a thorough subject index and subseries A has an analyte index too.

Hardcover xvi+496 pp ISBN 0 85186 926 2 (1989) Price £65.00

Biotransformations

A Survey of the Biotransformations of Drugs and Chemicals in Animals

Edited by David R. Hawkins Huntingdon Research Centre

The series has been devised to provide an up-to-date survey of the literature on the biotransformation of pharmaceuticals, pesticides, food additives, and environmental and industrial chemicals in animals. The objective is to provide a comprehensive data base which will allow an increased awareness of patterns in species differences and the influence of chemical structure on biotransformation pathways.

The material has been collated into chemical classes but an additional feature is the definition and allocation of key functional groups for each compound. The functional groups selected are those commonly associated with biotransformation. Indexing these functional groups provides ready access to reports on compounds containing common structural features. An additional index of biotransformation processes and compound names further increases the accessibility of relevant information.

Volume 2 Hardcover xx+496 pp ISBN 0 85186 167 9 (1990) Price £79.50 Volume 1 Hardcover xxii+512 pp ISBN 0 85186 157 1 (1989) Price £75.00

Calixarenes

Series: Monographs in Supramolecular Chemistry By C. David Gutsche, *Washington University, St. Louis, USA.*

Description and Contents

Calixarenes is the first book to be published in the new 'Monographs in Supramolecular Chemistry' series and is also the first complete survey available of this rapidly developing field. It provides a fascinating and lively account of the history, development and applications of calixarenes, which are probably the world's most readily available synthetic molecular baskets. These basket-shaped compounds possess the ability to hold metal ions, as well as molecules, in their interior and as a result of their extraordinarily easy synthesis from phenols and aldehydes are receiving increasingly wide attention.

Hardcover xii+224 pp ISBN 0 85186 916 5 (1989) Price £39.50 Standing Order Price for this title for customers placing an order for all titles in the series £35.00





Information Services To Order, Please write to the: Royal Society of Chemistry, Distribution Centre, Blackhorse Road, Letchworth, Herts SG6 1HN. UK. or telephone (0462) 672555 quoting your credit card details. We can now accept Access/Visa/MasterCard/Eurocard.

For further information, please write to the:

Royal Society of Chemistry, Sales and Promotion Department, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF, UK.

RSC Members should obtain members prices and order from:
The Membership Affairs Department at the Cambridge address above.