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Organometallic Chemistry in the USSR

Organometallic Chemistry in the USSR is a cover-to-cover translation of the new Soviet journal ***Metalloorganicheskaya Khimiya***, translated and published jointly by the British Library and the Royal Society of Chemistry. The chemistry of organometallic compounds has traditionally been one of the most thoroughly developed fields of science in the USSR. It involves the synthesis and study of the properties of organic derivatives of non-transition and transition metals and the preparation of various complexes (including cluster complexes) of transition metals with a wide variety of ligands and various types of bonds. Its tasks include the application of organometallic compounds in organic synthesis and especially in catalytic processes. In addition to papers, brief communications, and letters to the editors, the journal will contain reviews on important key problems in the field.

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by R. Weston, *Leicester Polytechnic*
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Edited by: D. E. Everleigh, *Rutgers University, USA*
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C. P. Kubicek and E. M. Kubicek-Pranz, *Institute for
Biochemical Technology and Microbiology, Vienna, Austria*

Trichoderma Reesei Cellulases: Biochemistry, Genetics, Physiology and Applications is the first comprehensive survey dealing with all aspects of the subject. It is also the most compact and up-to-date account of the topic, with the areas covered ranging from physiology of induction of cellulolytic enzymes over their structures and genes to aspects of applications.

The understanding and manipulation of cellulase formation and function by trichoderma has now reached a very exciting period and this book is essential reading for all those with an interest in the field.

Hardcover viii + 212 pages
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Edited by: S.E. Harding, *University of Nottingham* and
A.J. Rowe, *University of Leicester*
Special Publication No. 74

In this important 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 are identified.

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Part III : Dynamics of Glycoconjugates and Membranes

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November 1989

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Chemical and Biochemical Problems

Edited by: S.M. Roberts, *University of Exeter*
Special Publication No. 78

This new book is the first review of progress made over the last few years in the important field of molecular recognition, an area that has been the focus of research initiatives in the UK, USA and Japan.

It illustrates the exciting progress made in understanding small molecule/large molecule interactions and shows how a comprehension of non-covalent interactions between these species can lead to new ideas for the design of novel drugs, agrochemicals, etc. In *Molecular Recognition: Chemical and Biochemical Problems* the synthesis, stereochemistry, actions and interactions of peptides and proteins form recurrent themes. It also features the synthesis of DNA, RNA, and unnatural macromolecules capable of selective binding to small molecules.

Softcover xi + 285 pages
ISBN 0 85186 796 0
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November 1989

Amino Acids and Peptides Volume 21

Senior Reporter: J. H. Jones, *University of Oxford*
Series: Specialist Periodical Reports

Amino Acids and Peptides Vol. 21 reviews the literature published during 1988.

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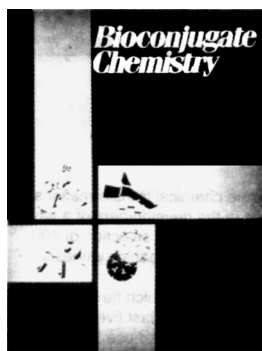
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Carbohydrate Chemistry Vol. 21 Part I

Senior Reporter: Neil R. Williams
Birkbeck College, University of London

Since Volume 14 'Carbohydrate Chemistry' has been divided into two parts:
Part 1 – Mono-, Di-, and Tri-saccharides and their derivatives
Part 2 – Macromolecules

From Volume 19 Part 1 was renamed:
Monosaccharides, Disaccharides, and Specific Oligosaccharides.

Carbohydrate Chemistry Volume 21 (Part 1) provides a review of the literature published during 1987.

Brief Contents:

Introduction and General Aspects; Free Sugars; Glycosides and Disaccharides; Oligosaccharides; Ethers and Anhydro-Sugars; Acetals; Esters; Halogeno-Sugars; Amino-Sugars; Miscellaneous Nitrogen Derivatives; Thio- and Seleno-Sugars; Deoxy-Sugars; Unsaturated Derivatives; Branched-chain Sugars; Aldosuloses, Dialdoses, and Diuloses; Sugar Acids and Lactones; Inorganic Derivatives; Alditols and Cyclitols; Antibiotics; Nucleosides; NMR Spectroscopy and Conformational Features; Other Physical Methods; Separatory and Analytical Methods; Synthesis of Enantiomerically Pure Non-Carbohydrate Compounds; Author Index.

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Organophosphorus Chemistry Vol. 20

Senior Reporters: B.J. Walker,
The Queen's University of Belfast and
J.B. Hobbs, University of British Columbia, Canada

Organophosphorus Chemistry Volume 20 reviews the literature published between July 1987 and June 1988.

Brief Contents:

Phosphines and Phosphonium Salts; Pentaco-ordinated and Hexaco-ordinated Compounds; Phosphine Oxides and Related Compounds; Tervalent Phosphorus Acids; Quinquevalent Phosphorus Acids; Nucleotides and Nucleic Acids; Ylides and Related Compounds; Phosphazenes.

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Consulting Editor: Dr N.S. Simplins,
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Flexicover 210 pp
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Organometallic Chemistry Vol. 18

Senior Reporters: E.W. Abel, University of Exeter and
F.G.A. Stone, University of Bristol.

Organometallic Chemistry Volume 18 provides a review of the literature published during 1988

Brief Contents:

Group I: The Alkali and Coinage Metals; Group II: The Alkaline Earths and Zinc and its Congeners; Boron with the Exception of the Carbaboranes; Carbaboranes, including their Metal Complexes; Group III: Aluminium, Gallium, Indium and Thallium; Group IV: The Silicon Group; Group V: Arsenic, Antimony, and Bismuth; Metal Carbonyls; Organometallic Compounds containing Metal-Metal Bonds; Ligand Substitution Reactions of Metal and Organometal Carbonyls with Group V and VI Donor Ligands; Complexes Containing Metal-Carbon σ -Bonds of the Groups Scandium to Manganese, including Carbenes and Carbynes; Complexes Containing Metal-Carbon σ -Bonds of the Groups Iron, Cobalt and Nickel; Metal-Hydrocarbon π -Complexes, Other than π -Cyclopentadienyl and π -Arene Complexes; π -Cyclopentadienyl, π -Arene, and Related Complexes; Homogeneous Catalysis by Transition-metal Complexes; Structures of Organometallic Compounds determined by Diffraction Methods.

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