

NEW PUBLICATIONS

from The Royal Society of Chemistry

Specialist Periodical Reports

Photochemistry Vol. 13

Senior Reporter:
D. Bryce-Smith

This thirteenth volume in the series covers the literature published between July 1980 and June 1981.

Brief Contents:

Part I: Physical Aspects of Photochemistry; Part II: Photochemistry of Inorganic and Organometallic Compounds; Part III: Organic Aspects of Photochemistry; Part IV: Polymer Photochemistry; Part V: Photochemical Aspects of Solar Energy Conversion.

"The latest in this series of reviews of literature continues to be indispensable to physical and organic photochemists and makes interesting reading for those active on the periphery of this subject." — *David I. Schuster, Jnl of Medicinal Chemistry, reviewing Vol. 10*

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Price £82.00 (\$154.00) RSC Members £44.00

The Alkaloids Vol. 12

Senior Reporter:
M.F. Grundon

A review of the literature published between July 1980 and June 1981.

Brief Contents:

Biosynthesis; Pyrrolidine, Piperidine, and Pyridine Alkaloids; Tropane Alkaloids; Pyrrolizidine Alkaloids; Indolizidine Alkaloids; Quinolizidine Alkaloids; Quinoline, Quinazoline, and Acridone Alkaloids; β -Phenylethylamines and the Isoquinoline Alkaloids; Aporphinoid Alkaloids; Amaryllidaceae Alkaloids; *Erythrina* and Related Alkaloids; Indole Alkaloids; Diterpenoid Alkaloids; Steroidal Alkaloids; Miscellaneous Alkaloids.

"The Royal Society of Chemistry publication on *The Alkaloids* is the central point of the alkaloid year. With such a proliferation of papers on this most worthy of topics, it is not difficult to miss some contributor and hence the latest volume is eagerly awaited, certainly in my laboratory, and I would suspect in many others." — *J. David Phillipson, University of London, reviewing Vol. 10*

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Miscellaneous Publications

World Index of Polyolefine Stabilizers

Compiled and edited by T.J. Henman

The World Index of Polyolefine Stabilizers makes available for people working in the field current information on what materials are available and on others that have been tested and reported in the chemical literature.

The *Index* is the result of the compilation, over many years, of information received from additive manufacturers, the chemical literature and unpublished sources. The data base, stored and sorted by computer, contains more than 4000 records. The *Index* is presented in a form that enables the user to relate trade name to supplier and chemical identity. All materials included, or closely related chemical species, have at some time been claimed to exhibit beneficial stabilizing effects, either as antioxidants, uv-stabilizers or metal-deactivators in polyolefines. Some rubber antiozonants, accelerators and other staining antioxidants are included, since such trade names are often encountered when reading literature in this field.

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Sections of appendices and source references are also provided, and there is a final section listing the names and addresses of over 160 additive suppliers.

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Introduction; Indexes; Cross-reference to Trade Name Index; Appendices; Source References; Addresses of Additive Suppliers.

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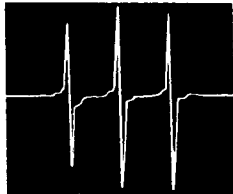
NEW PUBLICATIONS

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Specialist Periodical Reports

Electron Spin Resonance Vol.7

Senior Reporter:
P. B. Ayscough



A review of the literature published between December 1979 and May 1981.

Brief Contents:

Applications of E.S.R. in Polymer Chemistry; Theoretical Aspects of E.S.R.; Triplets and Biradicals; Transition-metal Ions; Inorganic and Organometallic Radicals; Organic Radicals: Structure; Organic Radicals: Kinetics and Mechanisms of their Reactions; Organic Radicals in Solids; Spin Labels: Synthetic Macromolecules; Spin Labels: Biopolymers; Spin Labels: Biomembranes; Metalloproteins; Applications of E.S.R. in Medicine.

"In addition to pointing out the wide range of analytical applications of E.S.R., this review documents the careful attention to detail which is required in quantitative studies. It should be useful to all practitioners, regardless of field of application." — *Estel D. Sprague, J. AM. Chem. Soc., reviewing Vol. 6*

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Heterocyclic Chemistry Vol.3

Senior Reporters:

H. Súschtzky and O. Meth-Cohn



A review of the literature abstracted between July 1980 and June 1981.

Brief Contents:

Three-Membered Ring Systems; Four-Membered Ring Systems; Five-Membered Ring Systems; Six-Membered Ring Systems; Seven-Membered Ring Systems; Eight-Membered and Larger Ring Systems; Bridged Systems.

"This series should become an extremely valuable resource for those academics involved in the teaching and synthesis of heterocycles, as well as for those heterocyclic chemists in an industrial setting. The editors are to be complimented for their excellent choice of contributors and for the skilful organization of the text material." — *Raymond P. Panzica, Jnl of Medicinal Chemistry, reviewing Vol. 1*

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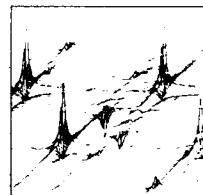
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Nuclear Magnetic Resonance Vol.11

Senior Reporter:
G. A. Webb



A review of the literature published between June 1980 and May 1981.

Brief Contents:

Theoretical and Physical Aspects of Nuclear Shielding; Applications of Nuclear Shielding; Theoretical Aspects of Spin-Spin Couplings; Applications of Spin-Spin Couplings; Nuclear Spin Relaxation in Fluids; Solid State N.M.R.; Multiple Resonance; Natural Macromolecules; Synthetic Macromolecules; Conformational Analysis; Oriented Molecules; Heterogeneous Systems.

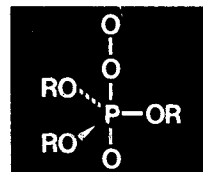
"This book must be considered as very important and useful not only for specialists in the N.M.R. area but also for others who like to keep up with recent investigations and progress in this very widely and frequently used area of molecular spectroscopy." — *N. D. Yordanov, European Spectroscopy News, reviewing Vol. 10*

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Organophosphorus Chemistry Vol.13

Senior Reporters:

D. W. Hutchinson and J. A. Miller



A review of the literature published between July 1980 and June 1981.

Brief Contents:

Phosphines and Phosphonium Salts; Quinquevalent Phosphorus Compounds; Halogenophosphines and Related Compounds; Phosphine Oxides and Related Compounds; Tervalent Phosphorus Acids; Quinquevalent Phosphorus Acids; Phosphates and Phosphonates of Biochemical Interest; Cyclophosphamide and its Congeners; Ylides and Related Compounds; Physical Methods.

"The whole series of volumes represents an extremely useful reference work on progress in this area of chemistry over the past 10 years and, ideally, every chemist active in the field should keep a set of these volumes on his book shelf." — *Kurt Moederitzer, Montanto Company, reviewing Vol. 10*

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