

CHEMICAL SOCIETY REVIEWS

THE ROYAL
SOCIETY OF
CHEMISTRY

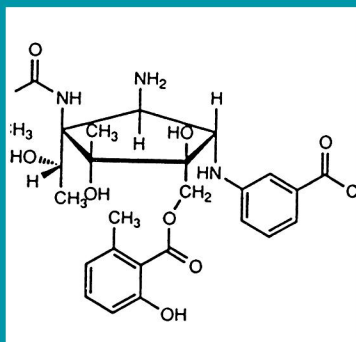
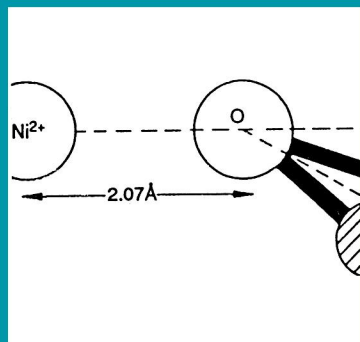


Information
Services

Volume 24 Issue 3

Pages 159–230

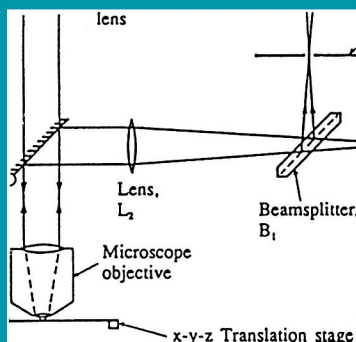
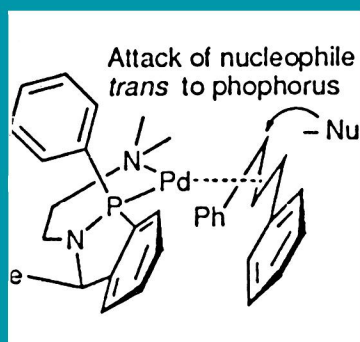
June 1995



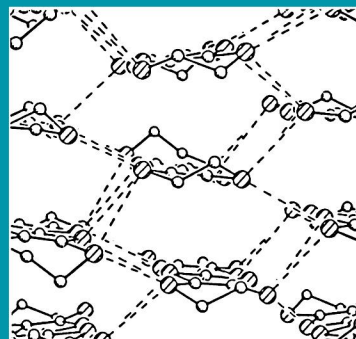
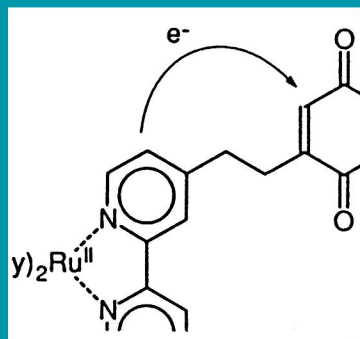
Ion Solvation via Neutron Scattering
By John E. Enderby **159**

The Biosynthesis of Carbocyclic Nucleosides
By Gareth N. Jenkins and Nicholas J. Turner **169**

MELDOLA LECTURE. Recent Developments in Asymmetric Synthesis
By Martin Wills **177**

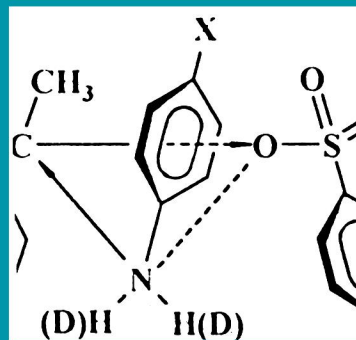
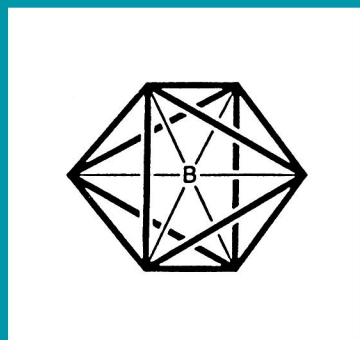


Raman Microscopy: Application to the Identification of Pigments on Medieval Manuscripts
By Robin J.H. Clark **187**



Sensors and Switches from Supramolecular Chemistry
By Luigi Fabbrizzi and Antonio Poggi **197**

Structural, Magnetic, and Conductivity Properties of Charge-Transfer Salts Derived from Metallacarboranes
By Yaw-Kai Yan and D. Michael P. Mingos **203**



Denuding the Boron Atom of B–H Interactions in Transition Metal–Boron Clusters
By Catherine E. Housecroft **215**

Secondary Kinetic Isotope Effects Involving Deuterated Nucleophiles
By Ikchoon Lee **223**

ISSN 0306-0012

Chemical Society Reviews

Editorial Board

Professor H. W. Kroto FRS (Chairman)	University of Sussex
Professor M. J. Blandamer	University of Leicester
Dr. A. R. Butler	University of St. Andrews
Professor E. C. Constable	University of Basel, Switzerland
Professor T. C. Gallagher	University of Bristol
Professor D. M. P. Mingos FRS	Imperial College London
Professor J. F. Stoddart FRS	University of Birmingham

Consulting Editors

Dr. G. G. Balint-Kurti	University of Bristol
Dr. J. M. Brown	University of Oxford
Dr. J. Burgess	University of Leicester
Dr. N. Cape	Institute of Terrestrial Ecology, Lothian
Professor B. T. Golding	University of Newcastle upon Tyne
Professor M. Green	University of Bath
Professor A. Hamnett	University of Newcastle upon Tyne
Dr. T. M. Herrington	University of Reading
Professor A. R. Hillman	University of Leicester
Professor R. Keese	University of Bern, Switzerland
Dr. T. H. Lilley	University of Sheffield
Dr. H. Maskill	University of Newcastle upon Tyne
Professor A. de Meijere	University of Göttingen, Germany
Professor J. N. Miller	Loughborough University of Technology
Professor S. M. Roberts	University of Exeter
Professor B. H. Robinson	University of East Anglia
Professor M. R. Smyth	Dublin City University, Republic of Ireland
Professor A. J. Stace	University of Sussex

Staff Editor

Mr. K. J. Wilkinson	Royal Society of Chemistry, Cambridge
---------------------	---------------------------------------

It is intended that **Chemical Society Reviews** will have the broad appeal necessary for researchers to benefit from an awareness of advances in areas outside their own specialities. Deliberate efforts will be made to solicit authors and articles from Europe which present a truly international outlook on the major advances in a wide range of chemical areas. It is hoped that it will be particularly stimulating and instructive for students planning a career in research. The articles will be succinct and authoritative overviews of timely topics in modern chemistry.

In line with the above, review articles will not be overly comprehensive, detailed, or heavily referenced (*ca.* 30 references), but should act as a springboard to further reading. In general, authors, who will be recognized experts in their fields, will be asked to place any of their own work in the wider context. Review articles must be *short*, around 8–10 journal pages in extent. In consequence, manuscripts should not exceed 20–30 A4/American quarto sheets, this length to include text (in double line spacing), tables, references, and artwork. An Information to Authors leaflet is available from the Senior Editor (Reviews).

Although the majority of articles are intended to be specially commissioned, the Society always considers offers of articles for publication. In such cases a short synopsis (including a selection of the literature references that will be cited in the review and a brief academic CV of the author), rather than the completed article, should be submitted to the Senior Editor (Reviews), Books and Reviews Department, The Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF.

© The Royal Society of Chemistry, 1995
All Rights Reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic or mechanical, photographic, recording, or otherwise, without the prior permission of the publishers.

Typeset by Servis Filmsetting Ltd.
Printed in Great Britain by
Blackbear Press Ltd.