

RSC PUBLICATIONS

Quality and Value

Monographs in Supramolecular Chemistry

Series Editor: J. Fraser Stoddart, FRS, University of Birmingham, UK

Ref No 1130

Membranes and Molecular Assemblies: The Synkinetic Approach

By Jürgen-Hinrich Fuhrhop,
Freie Universität Berlin, Germany

Jürgen Köning,
Freie Universität Berlin, Germany

Membranes and Molecular Assemblies: The Synkinetic Approach is an inspiring, illustrated text in glorious full colour. It contains 118 colour illustrations and a further 70 in black and white. Great care has been taken to choose graphics that illustrate difficult concepts.

The book describes the wealth of membrane structures realized by chemists mainly within the last two decades - micelles, vesicles, fibres, and surface monolayers - from the point of view of supramolecular chemistry. It puts new emphasis on "synkinetic" procedures for the preparation of non-covalent assemblies as well as their structural characterization by electron microscopy, solid state NMR spectroscopy, and comparison to X-ray crystal structures. The supramolecular structure of well-defined molecular assemblies and their use as complex reaction systems is also emphasized. Stereoselective surface recognition, asymmetric membranes, vectorial photoreactions, solid molecular bilayers in the form of tubules or helical rods, and sealable nanopores in membranes or on electrode surfaces are a few outstanding examples. In addition, the importance of well-defined gaps on surfaces and within membranes and crystals is discussed in context for the first time.

Hardcover xiv + 228 pages
ISBN 0 85186 732 4 1994
Price £69.50

*** Now available in Paperback**

Ref No 1098

Container Molecules and Their Guests

By Donald J. Cram, *University of California, Los Angeles, USA*

Jane M. Cram, *University of California, Los Angeles, USA*

This volume covers the evolution of host-guest complexation chemistry in the minds and hands of Nobel Prize winner Donald Cram and his co-workers at UCLA, over the 25-year period from 1970-1994. It deals with the fundamental principles and objectives that govern this rapidly developing subject and illustrates the emergence of a new field of biomimetic chemistry.

Hardcover xiv + 224 pages **ISBN 0 85186 972 6**
1994 Price £49.50

Ref No 246

Cyclophanes*

By François N. Diederich,
University of California, Los Angeles, USA

Hardcover xvi + 314 pages **ISBN 0 85186 966 1**
1991 Price £57.50

Softcover xvi + 314 pages **ISBN 0 85186 405 8**
1994 Price £25.00

Ref No 247

Crown Ethers and Cryptands*

By George W. Gokel, *University of Miami, Florida, USA*

Hardcover xiv + 190 pages **ISBN 0 85186 996 3**
199 Price £52.50

Softcover xiv + 190 pages **ISBN 0 85186 704 9**
1994 Price £22.50

To order please contact:

The Royal Society of Chemistry, Turpin Distribution Services Limited, Blackhorse Road, Letchworth, Herts SG6 1HN, United Kingdom.
Telephone: +44 (0) 1462 672555. Fax: +44 (0) 1462 480947
E-mail (Internet): TURPIN@RSC.ORG
Please quote your credit card details. We can now accept Access/Visa/Mastercard/EuroCard/Amex.

Turpin Distribution Services Limited is wholly owned by The Royal Society of Chemistry.

For information on other books and journals please contact:

Sales and Promotion Department, The Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge CB4 4WF, United Kingdom.
Telephone: +44 (0) 1223 420066. Fax: +44 (0) 1223 423429
E-mail (Internet): RSC1@RSC.ORG

RSC members are entitled to a discount on most RSC publications. Details available from the Membership Administration Department at the Cambridge address above.

THE ROYAL
SOCIETY OF
CHEMISTRY



Information
Services

Israel Journal of Chemistry

Brings you broad,
up-to-date, international
coverage in topic-based
issues of current active
research interest,
4 times a year!

Now in its 35th volume!

Editor

Haim Levanon

Professor of Physical Chemistry,
Hebrew University of Jerusalem, Israel.

Editorial Board

J. Bernstein Ben-Gurion University of the Negev •
J.L. Feitelson The Hebrew University of Jerusalem •
M.J. Goldstein Bromine Compounds Ltd. • **E. Keinan**
Technion – Israel Inst. of Technology • **J. Klafter** Tel Aviv
University • **E.M. Kosower** Tel Aviv University •
N. Moiseyev Technion – Israel Inst. of Technology •
R. Naaman The Weizmann Inst. of Science •
S. Shaik The Hebrew University of Jerusalem •
M. Sprecher Bar-Ilan University.

Aims & Scope

Israel Journal of Chemistry is an international forum for current research into **different areas** of chemistry. Each issue is **devoted to a single topic**, enabling **in-depth treatment** of the subject matter. Topics are chosen for their **current relevance** and the level of international research they generate. **Guest Editors** from around the world **invite papers** by recognized leaders in their specialties, to form a **representative, international** window onto perspectives and research on each topic. All papers are **peer reviewed**.

Abstracted/Indexed in:

Chemical Abstracts, Chemical Citation Index, Cheminform, Current Contents, INSPEC, Nutrition Abstracts and Reviews, Science Citation Index, SciSearch.

Israel Journal of Chemistry • Volume 35, 1995 • ISSN 0021-2148 • 4 issues per volume • Institutional rate \$250 • Personal* rate \$125 (*write for details)

Order details

Payment can be made by check or Visa, MasterCard, or Eurocard. All prices are in US\$ and include airmail. Payment and requests for pro forma invoices or further information should be sent to the Publisher,



Laser Pages Publishing (1992) Ltd,
P.O. Box 50257, Jerusalem 91502, Israel.
OR Fax to: + 97 2 2 370 625

Special issues

Quantum-Size Particles

Guest Editors: **D. Meisel & P.V. Kamat.**

Focuses on particles synthesized by colloidal chemistry techniques for prospective utilization in nonlinear optical systems and in energy conversion systems.
Vol. 33, No. 1, 1993 • \$65.

Ultrafast Processes

Guest Editors: **P.F. Barbara & D. Huppert**

Includes extensive contemporary examples of ultrafast studies in an exciting collection of theoretical and experimental research.
Vol. 33, No. 2, 1993 • \$65.

Computational Quantum Chemistry

— A Cornerstone of Chemical Research

Guest Editors: **Y. Apeloig & S. Shaik.**

In these two issues, articles by major researchers in the field run the full gamut of computational chemistry and represent the current state of the art.
Vol. 33, Nos. 3–4, 1993 • \$120.

Lasers in Chemistry

Guest Editors: **S. Rosenwaks & M. Shapiro.**

With contributions by some of its most active and significant figures, this issue reflects the diversity and interdisciplinary nature of this dynamic field.
Vol. 34 No. 1, 1994 • \$65.

Structure & Dynamics of Proteins

Guest Editors: **J.L. Sussman & K. Elber.**

These diverse research papers demonstrate how broad and interdisciplinary the study of protein structure, dynamics, and thermodynamics has become.
Vol. 34 No. 2, 1994 • \$65.

Atmospheric Chemistry

Guest Editor: **M. Luria.**

includes **laboratory studies** of model heterogeneous reactions in the stratospheric ozone, **field studies** on the formation of ozone and its precursors in rural areas, and **model simulation research** on the concentration of hydroxyl radical and nitrate radical in the atmosphere as well as many other topics.
Vol. 34, Nos. 3–4, 1994 • \$120.

Thin Films

Guest Editor: **Y. Klein.**

Vol. 35, No. 1, 1995 • \$70.

Archeometry

Guest Editor: **A. Nissenbaum.**

Vol. 35, No. 2, 1995 • \$70.

Photophysics of Retinal Proteins

Guest Editors: **M. Ottolenghi & M. Sheves.**

Vol. 35, Nos. 3–4, 1995 • \$130.