

Books

The Age of the Molecule

Editor/Publisher: Royal Society of Chemistry

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"**The Age of the Molecule** contains wonderful examples of the exciting achievements of chemists worldwide, as well as alerting us to the challenges which lie ahead." Prime Minister Tony Blair

The achievements and excitement of chemistry are evident in our everyday lives. Scientific research has not only led to cures for serious diseases and produced life-enhancing synthetic materials but has also offered profound insights into the nature of the world around us. In this way chemistry has made a huge impact on human progress in the 20th century. We can expect even more exciting developments in the new millennium.

This book describes the key developments in the molecular sciences in recent years and those likely to happen in the near future. These include the many remarkable discoveries made in the life sciences, and the huge variety of technological applications of chemistry: liquid crystals, batteries, catalysts, plastics and novel electronic materials. The book also explains how chemistry is actually carried out: methods of making and analysing molecules, calculating their properties and studying how and why chemical reactions occur.

Endorsed by Prime Minister Tony Blair and written in clear accessible language by a group of leading chemists, **The Age of the Molecule** will appeal to anyone who wants to understand the world and ourselves at the molecular level.

Brief Contents:

Introduction: What is Chemistry?; Make Me A Molecule: Analysis and Structure of Molecules; Chemical Marriage – Brokers; Following Chemical Reactions; The Power of Electrochemistry; The Age of Plastics; The World of Liquid Crystals; New Science from New Materials; Computational Chemistry and the Virtual Laboratory; The Chemistry of Life; Epilogue: Chemistry – Architecture of the Microcosmos. Go to The Age of the Molecule Homepage at <http://www.chemsoc.org/>

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Encyclopedia of Environmental Pollution and Cleanup

Editor-in-Chief: Robert A. Meyers
Diane Kender Dittrick (ed)

Publisher: John Wiley & Sons

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A concise up-to-date guide to all aspects of environmental pollution and cleanup.

Human invention and innovation have brought about tremendous improvements in the quality of life of millions of people around the world today – but progress has its price. Environmental pollution is rapidly attacking the Earth's ecosphere. While advances have been made and new disciplines have emerged to identify, monitor, regulate, and compensate for environmental pollutants, it will take the combined efforts of numerous specialists to solve the problem. It will also take the efforts of an informed public that, through its voting and buying habits, has the power to determine whether or not the threat to our environment can be contained.

This 2-volume encyclopedia provides all readers, regardless of scientific background or training, with a working knowledge of contemporary issues in environmental pollution and cleanup. Based on Wiley's critically acclaimed, 8-volume *Encyclopedia of Environmental Analysis and Remediation*, this compact A-to-Z reference features the same breadth and quality of coverage – and clarity of presentation – found in the original.

It includes: Over 200 self-contained, thoroughly cross-referenced articles on essential aspects of environmental pollution and cleanup. Coverage of key topics in hazardous waste, air pollution control, biosphere pollution, health effects, nuclear waste, environmental law and regulation, water reclamation, and more. Integrated coverage of both legal and policy issues and technological and environmental concerns. Hundreds of photographs, figures, charts, and tables that help illustrate major points, explain difficult material, and summarize important data. Bibliographic entries keyed to the text that list sources of additional information on selected topics.

This book is an ideal reference for high school and college students and a convenient resource for scientists, environmental consultants, and anyone who needs clear, reliable, up-to-date information on environmental pollution and cleanup.

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