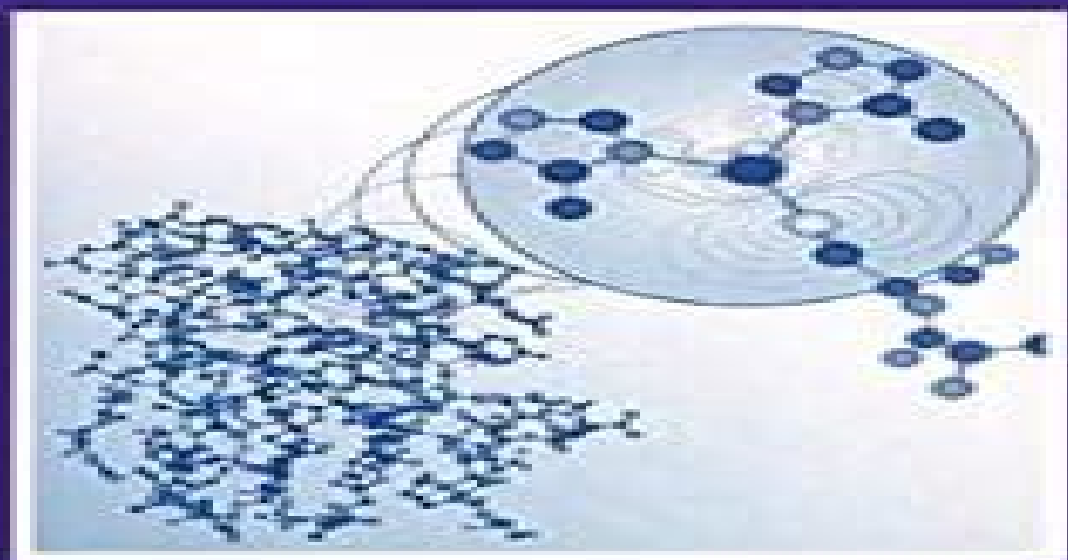


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Spectroscopic Methods in Bioinorganic Chemistry



EDITED BY
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Spectroscopic Methods In Bioinorganic Chemistry

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errors issues that underscore the perennial need to develop new methods for obtaining still more accurate data. Extremely broad in scope and rich in detail, this volume provides the key to improving the state of the art in the field and is sure to stimulate further research. It stands as a one of a kind reference for analytical and inorganic chemists as well as biochemists in a wide range of disciplines including toxicology, environmental science, nutrition, research, clinical chemistry, and pharmacology. A complete reference for the analytical and instrumental aspects of speciation. This unique volume provides both a comprehensive reference and a practical guide to the complete range of issues arising from element speciation. It concentrates on analytical methods and instrumentation in bioinorganic chemistry especially as applied to water related projects while addressing the larger environmental and human health concerns of our times. Complete with over 100 illustrations, this collaborative effort by an international group of experts describes methods for the detection and analysis of species elements including direct methods, atomic spectrometry, nuclear activation analysis, and radio tracer, high performance chromatography, or voltammetric procedures. Specific effects of various species elements including heavy metals, arsenic, and many other trace elements. Biological materials showing concentrations of trace elements including human serum, milk, and marine organisms. Various environments affected by element speciation such as natural waters, sea waters, estuarine, and coastal environments. How to avoid common pitfalls and obtain sound and accurate data. For anyone involved in environmental and earth sciences as well as the related areas of public health, pharmacology, toxicology, nutritional research, or environmental regulations, this important work offers the most systematic survey of element speciation to date. It also provides historical perspective, a preview of expected developments, and a multitude of new ideas for further research. The author of approximately 240 published papers and three previous books, Dr. Caroli is an active member of numerous national and international committees and organizations concerned with chemicals in the environment. He also sits on the editorial or advisory boards of several scientific journals including the *Journal of Analytical Atomic Spectroscopy*, *Environmental Science and Pollution Research International*, and *Microchemical Journal*.

Applications of Physical Methods to Inorganic and Bioinorganic Chemistry
 Robert A. Scott, Charles M. Lukehart, 2013-02-19. Modern spectroscopic and instrumental techniques are essential to the practice of inorganic and bioinorganic chemistry. This first volume in the new Wiley Encyclopedia of Inorganic Chemistry Methods and Applications Series provides a consistent and comprehensive description of the practical applicability of a large number of techniques to modern problems in inorganic and bioinorganic chemistry. The outcome is a text that provides invaluable guidance and advice for inorganic and bioinorganic chemists to select appropriate techniques whilst acting as a source to the understanding of these methods. This volume is also available as part of Encyclopedia of Inorganic Chemistry 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010 representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry. Find out more **Spectroscopic Properties of Inorganic and Organometallic Compounds** Jack Yarwood, Richard Douthwaite, Simon Duckett, 2010-06

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