

Janice Aldrich-Wright
Editor

Metallo- intercalators

Synthesis and Techniques to Probe
their Interactions with Biomolecules

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Metallointercalators Synthesis And Techniques To Probe Their Interactions With Biomolecules

Tadhg P. Begley



Metallointercalators Synthesis And Techniques To Probe Their Interactions With Biomolecules:

Metallointercalators Janice Aldrich-Wright, 2011-04-06 A comprehensive treatment of the characterisation techniques used in investigating inorganic and organic molecules that interact with biomolecules is presented to the reader in a clear fashion The work consists of two parts i synthetic aspects of metallointercalators along with targeting and improving transport and ii the various techniques that are used for probing their interactions such as DNA NMR PGSE NMR DNA ESI MS Linear and Circular Dichroism Fluorescence Spectroscopy Confocal Microscopy Viscosity TGA and dialysis Microarrays biological analysis Chapters are devoted to the synthesis and the techniques used to study the interactions of inorganic complexes with biomolecules Considerably detailed examples are used to help illustrate the application of these techniques This book is a useful resource for an array of inorganic and organic advanced undergraduate and graduate courses and for researchers in drug discovery Annual Reports on NMR Spectroscopy William S. Price, 2023-07-26 Annual Reports on NMR Spectroscopy Volume 108 highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Serves as the premier resource for learning new techniques and applications in NMR spectroscopy Provides a key reference for chemists and physicists using NMR spectroscopy to study the structure and dynamics of molecules Covers all aspects of molecular science including MRI Magnetic Resonance Imaging

Encyclopedia of Electrochemical Power Sources , 2024-10-03 The Encyclopedia of Electrochemical Power Sources Second Edition is a comprehensive seven volume set that serves as a vital interdisciplinary reference for those working with batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells With an increased focus on the environmental and economic impacts of electrochemical power sources this work not only consolidates extensive coverage of the field but also serves as a gateway to the latest literature for professionals and students alike The field of electrochemical power sources has experienced significant growth and development since the first edition was published in 2009 This is reflected in the exponential growth of the battery market the improvement of many conventional systems and the introduction of new systems and technologies This completely revised second edition captures these advancements providing updates on all scientific technical and economic developments over the past decade Thematically arranged this edition delves into crucial areas such as batteries fuel cells electrolyzers supercapacitors and photo electrochemical cells It explores challenges and advancements in electrode and electrolyte materials structural design optimization application of novel materials and performance analysis This comprehensive resource with its focus on the future of electrochemical power sources is an essential tool for navigating this rapidly evolving field Covers the main types of power sources including their operating principles systems materials and applications Serves as a primary source of information for electrochemists materials scientists energy technologists and engineers Incorporates 365 articles with timely coverage of environmental and sustainability aspects Arranged thematically to facilitate easy navigation of topics and easy exploration of the field across its

key branches Follows a consistent structure and features elements such as key objective boxes summaries figures references and cross references etc to help students faculty and professionals alike

Advances and Prospects of 3-d Metal-Based Anticancer Drug Candidates Farukh Arjmand, Sartaj Tabassum, Huzaifa Yasir Khan, 2024-05-02 This book reviews the potential of metallodrugs against different cancer It summarizes the classification of metal based anti cancer drugs their plausible biochemical and mechanistic pathways combining drug strategies for hitting multiple therapeutic targets at the intracellular level and advanced drug delivery strategies The book covers the metallodrugs for the efficacious treatment of diverse cancerous strains and recent advances in drug delivery strategies that are used for developing these metal based therapeutics as potent anticancer agents in vitro and in vivo The book also covers different biophysical and analytical techniques for studying metal ligand and metal macromolecular interactions The book further presents the recent examples of metallomics studies on the different types of cell death induced by metal based anticancer drugs especially on the three major forms of programmed cell death PCD in mammalian cells apoptosis autophagy and regulated necrosis also called necroptosis Lastly the book explores the modulation of reactive oxygen species ROS by metallodrugs

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