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Guanine rich DNA has been known for decades to form unusual structures, although their biological relevance was little understood. Recent advances have demonstrated that quadruplex structures can play a role in gene expression and provide opportunities for a new class of anticancer therapeutics. A number of quadruplex-specific proteins have also been discovered. *Quadruplex Nucleic Acids* discusses all aspects of the fundamentals of quadruplex structures, including their structure in solution and the crystalline state, the kinetics of quadruplex folding, and the role of cations in structure and stability. The biology of quadruplexes and G-rich genomic regions and G-quartets in supramolecular chemistry and nanoscience are also considered. Surveying the current state of knowledge, and with contributions from leading experts, this is the first comprehensive review of this rapidly growing area. *Quadruplex Nucleic Acids* is ideal for researchers interested in areas related to chemistry, chemical biology, medicinal chemistry, molecular pharmacology, and structural and molecular biology.

This book introduces the synthesis, electrochemical and photochemical properties, and device applications of metallo-supramolecular polymers, new kinds of polymers synthesized by the complexation of metal ions and organic ditopic ligands. Their electrochemical and photochemical properties are also interesting and much different from conventional organic polymers. The properties come from the electronic intra-chain interaction between the metal ions and the ligands in the polymer chain. In this book, for example, the electrochromism that the Fe(II)-based metallo-supramolecular polymer exhibits is described: the blue color of the polymer film disappears by the electrochemical oxidation of Fe(II) ions to Fe(III) and the colorless film becomes blue again by the electrochemical reduction of Fe(III) to Fe(II). The electrochromism is explained by the disappearance/appearance of the metal-to-ligand charge transfer absorption. The electrochromic properties are applicable to display devices such as electronic paper and smart windows.

*Aggregation-Induced Emission (AIE): A Practical Guide* introduces readers to the topic, guiding them through fundamental concepts and the latest advances in applications. The book covers concepts, principles and working mechanisms of AIE in AIE-active luminogens, with different classes of AIE luminogens reviewed, including polymers, three-dimensional frameworks (MOFs and COFs) and supramolecular gels. Special focus is given to the structure-property relationship, structural design strategies, targeted properties and application performance. The book provides readers with a deep understanding, not only on the fundamental principles of AIE, but more importantly, on how AIE luminogens and AIE properties can be incorporated in material development. Provides the fundamental principles, design and synthesis strategies of aggregation induced emission materials Reviews the most relevant applications in materials design for stimuli-responsive materials, biomedical applications, chemo-sensing and optoelectronics Emphasizes structural design and its connection to aggregation induced emission properties, also exploring the structure-property relationship

This volume is a practical biochemical guide to the Enzyme-Linked Immunosorbent Assay (ELISA), used to detect a target substance in a liquid sample. The ELISA is an important and widely used diagnostic tool in medicine, animal health, botany and quality assurance processes in food and beverage production. An introductory chapter orients the reader on the basic structure and function of immunoglobulins and their fragments while subsequent chapters outline the methodology to generate monoclonal antibodies using hybridoma technology and the general methods used to purify antibodies. Multiple chapters demonstrate how to creatively use the properties of the antibody to identify, localize and quantify target analytes to answer questions and resolve problems. The reader will learn how to use a variety of immunoassay strategies,

reporters and detection systems that will undoubtedly facilitate their efforts to gain answers to their own questions. Written in the successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *ELISA: Methods and Protocols* seeks to provide both professionals and novices with the technical information necessary for the reader to successfully use the immunoassay as part of the discovery process.

In 2010, more than 105,000 people were injured or killed in the United States as the result of a firearm-related incident. Recent, highly publicized, tragic mass shootings in Newtown, CT; Aurora, CO; Oak Creek, WI; and Tucson, AZ, have sharpened the American public's interest in protecting our children and communities from the harmful effects of firearm violence. While many Americans legally use firearms for a variety of activities, fatal and nonfatal firearm violence poses a serious threat to public safety and welfare. In January 2013, President Barack Obama issued 23 executive orders directing federal agencies to improve knowledge of the causes of firearm violence, what might help prevent it, and how to minimize its burden on public health. One of these orders directed the Centers for Disease Control and Prevention (CDC) to, along with other federal agencies, immediately begin identifying the most pressing problems in firearm violence research. The CDC and the CDC Foundation asked the IOM, in collaboration with the National Research Council, to convene a committee tasked with developing a potential research agenda that focuses on the causes of, possible interventions to, and strategies to minimize the burden of firearm-related violence. *Priorities for Research to Reduce the Threat of Firearm-Related Violence* focuses on the characteristics of firearm violence, risk and protective factors, interventions and strategies, the impact of gun safety technology, and the influence of video games and other media.

*Water Oxidation Catalysts, Volume 74*, the latest release in the *Advances in Inorganic Chemistry* series, presents timely and informative summaries on current progress in a variety of subject areas. This acclaimed serial features reviews written by experts in the field, serving as an indispensable reference to advanced researchers. Users will find this to be a comprehensive overview of recent findings and trends from the last decade that covers various kinds of inorganic topics, ranging from theoretical oriented supramolecular chemistry, to the quest for accurate calculations of spin states in transition metals. Provides the authority and expertise of leading contributors from an international board of authors. Presents the latest release in the *Advances in Inorganic Chemistry* series. Includes the latest information on water oxidation catalysts.

Achievements and progress in genome mapping and the genomics of microbes supersede by far those for higher plants and animals, in part due to their enormous economic implication but also smaller genome size. In the post-genomic era, whole genome sequences of animal-associated microbes are providing clues to depicting the genetic basis of the complex host-pathogen relationships and the evolution of parasitism; and to improving methods of controlling pathogens. This volume focuses on a globally important group of intracellular prokaryotic pathogens which affect livestock animals. These include *Brucella*, *Mycobacterium*, *Anaplasma* and *Ehrlichia*, as well as the protozoan pathogens *Cryptosporidium* and *Theileria*, for which genome sequence data is available. Insights from comparative genomics of the microbes described provide clues to the adaptation involved in host-microbe interactions, as well as resources potentially useful for application in future research and product development.

This book presents the fundamental scientific principles of long afterglow phosphorescent materials and a comprehensive review of both commercialized afterglow materials and the latest advances in the development of novel long afterglow materials. It is designed to supply much needed information about inorganic and organic afterglow materials, including detailed treatment of structure, classification, preparation techniques, characterization, surface modification chemistry, and optical measurements. Special

attention is given to technological applications such as photovoltaics, photocatalytic reactions, and lighting and molecular sensing. Although traditional long afterglow phosphors have been widely investigated and used in industry, and significant efforts have recently been made toward the use of these materials for bioimaging, there is to date no scientific monograph dedicated to afterglow materials. This book not only provides a beginners' guide to the fundamentals of afterglow luminescence and materials, but also gives skilled researchers essential updates on emerging trends and efforts. The work provides a special focus on organic afterglow materials, which offer several advantages such as light-weight, flexible, and wide varieties; mild preparation conditions; and good processability. This book is aimed at postgraduate students, researchers, and technologists who are engaged in the synthesis, development, and commercialization of afterglow materials. It represents essential reading on interdisciplinary frontiers in the materials science, chemistry, photophysics, and biological aspects of afterglow materials.

Surface organometallic chemistry is a new field bringing together researchers from organometallic, inorganic, and surface chemistry and catalysis. Topics ranging from reaction mechanisms to catalyst preparation are considered from a molecular basis, according to which the "active site" on a catalyst surface has a supra-molecular character. This, the first book on the subject, is the outcome of a NATO Workshop held in Le Rouret, France, in May, 1986. It is our hope that the following chapters and the concluding summary of recommendations for research may help to provide a definition of surface organometallic chemistry. Besides catalysis, the central theme of the Workshop, four main topics are considered: 1) Reactions of organometallics with surfaces of metal oxides, metals, and zeolites; 2) Molecular models of surfaces, metal oxides, and metals; 3) Molecular approaches to the mechanisms of surface reactions; 4) Synthesis and modification of zeolites and related microporous solids. Most surface organometallic chemistry has been carried out on amorphous high-surface-area metal oxides such as silica, alumina, magnesia, and titania. The first chapter, contributed by KNOZINGER, gives a short summary of the structure and reactivity of metal oxide surfaces. Most of our understanding of these surfaces is based on acid base and redox chemistry; this chemistry has developed from X-ray and spectroscopic data, and much has been inferred from the structures and reactivities of adsorbed organic probe molecules. There are major opportunities for extending this understanding by use of well-defined (single crystal) oxide surfaces and organometallic probe molecules.

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