

# Electron Transfer in Biology and the Solid State

Inorganic Compounds with Unusual Properties

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# Electron Transfer In Biology And The Solid State Inorganic Compounds With Unusual Properties

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**Electron Transfer in Biology and the Solid State** Michael K. Johnson, 1990 Identifies unifying concepts applicable to electron transfer between metal centers in both solid state materials and biological systems The 23 contributions cover such topics as peptides and proteins inorganic complexes and theoretical and experimental aspects of solid state transfer For materials scientists solid state scientists and biochemists Annotation copyrighted by Book News Inc Portland OR

Franek, 1991-01-01 **Electron Transfer in Inorganic, Organic, and Biological Systems** James R. Bolton, Noboru Mataga, George McLendon, 1991 Developed from a symposium sponsored by the International Chemical Congress of Pacific Basin Societies Honolulu Hawaii December 17 22 1989 **Principles of Bioinorganic Chemistry** Stephen J.

Lippard, Jeremy Mark Berg, 1994 The use of unnatural metals which have been introduced into human biology as diagnostic probes and drugs is another active area of tremendous medical significance **Inorganic Syntheses, Volume 31**

, 2009-09-22 The volumes in this continuing series provide a compilation of current techniques and ideas in inorganic synthetic chemistry Includes inorganic polymer syntheses and preparation of important inorganic solids and syntheses used in the development of pharmacologically active inorganic compounds small molecule coordination complexes and related compounds Also contains calculable information on transition organometallic compounds including species with meta metal cluster molecules All syntheses presented here have been tested *Bioinorganic Photochemistry* Grazyna Stochel, Zofia Stasicka, Malgorzata Brindell, Wojciech Macyk, Konrad Szacilowski, 2009-06-10 Bioinorganic photochemistry is a rapidly evolving field integrating inorganic photochemistry with biological medical and environmental sciences The interactions of light with inorganic species in natural systems and the applications in artificial systems of medical or environmental importance form the basis of this challenging interdisciplinary research area Bioinorganic Photochemistry provides a comprehensive overview of the concepts and reactions fundamental to the field illustrating important applications in biological medical and environmental sciences Topics covered include Cosmic and environmental photochemistry Photochemistry of biologically relevant nanoassemblies Molecular aspects of photosynthesis Photoinduced electron transfer in biosystems Modern therapeutic strategies in photomedicine The book concludes with an outlook for the future of environmental protection discussing emerging techniques in the field of pollution abatement and the potential for bioinorganic photochemistry as a pathway to developing cheap environmentally friendly sources of energy Written as an authoritative guide for researchers involved in the development of bioinorganic photochemical processes Bioinorganic Photochemistry is also accessible to scientists new to the field and will be a key reference source for advanced courses in inorganic and bioinorganic chemistry **Naval Research Reviews**, 1994 **Oxidation Of Oxygen And Related**

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scientific discovery at work Neil Bartlett's field is that of powerful oxidizers The early chapters tell the story of the oxidation of the oxygen molecule and the discovery of xenon chemistry His work in noble gas chemistry is summarized Succeeding chapters show how metastable fluorides such as  $\text{AgF}_3$  and  $\text{NiF}_4$  came to be prepared at ordinary temperatures and pressures and how they have provided the most potent oxidizers and fluorinators ever prepared **The Oxidation of Oxygen and Related Chemistry** Neil Bartlett, 2001

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This outstanding reference presents the latest scientific findings concerning the synthesis structure thermodynamics and physical and chemical properties of fluorine and fluoride carbon compounds elucidating their practical applications in lithium batteries superhydrophobic composites and the electrolytic production of elemental fluorine Metal Ions in Biological Systems Helmut Sigel, Astrid Sigel, 1991-03-15

Part of a series devoted to understanding the relationship between the chemistry of metals and life processes the present volume offers contributions by 25 scientists covering mechanistic considerations electron tunneling pathways photoinduced and stereoselective effects in electron transfer reactions *Handbook of Surfaces and Interfaces of Materials, Five-Volume Set* Hari Singh Nalwa, 2001-10-26 This handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research It covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization The large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic These five volumes Surface and Interface Phenomena Surface Characterization and Properties Nanostructures Micelles and Colloids Thin Films and Layers Biointerfaces and Applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source long due

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**Intrinsically Conducting Polymers: An Emerging Technology** M. Aldissi, 2013-04-17 This book contains the majority of the papers presented at the NATO Advanced Research Workshop ARW held in Burlington Vermont USA on October 12 15 1992 This ARW was the first of its kind to address the subject of intrinsically conducting polymers with an emphasis on processing and technological applications The NATO ARW format was followed in that the subjects addressed here were limited in number but discussed in detail with the attendance being limited to a small number of selected scientists The ARW brought together lecturers who are leaders in their respective fields from a wide range of NATO and non NATO countries a total of 11 countries with the support of the NATO Scientific Affairs Division and some support from Champlain Cable Corporation The total number of participants was 33 and the number of presentations was 24 The speakers were chosen based on the topics selected for this workshop and represented industry universities and government laboratories The field of conducting polymers has grown rapidly during the past few years with important developments in materials processing and fabrication that brought about active research programs focusing on the use of these polymers as smart materials in technological applications and devices in academic and industrial research laboratories

**Advances in Protein Chemistry**, 1991-12-17 *Advances in Protein Chemistry* *Advances in Chemistry Series*, 1990 Electron Transfer in Biology and the Solid State Michael K. Johnson, R. Bruce King, Donald M. Kurtz, Jr., 1990

**Metal Ions and the Route to Life** Wolfgang Nitschke, Simon Duval, 2025-08-28 Volume 28 entitled Metal Ions and the Route to Life of the series Metal Ions in Life Sciences advocates for the prime importance of the recognition of metal ions and metal bearing minerals in the transition from inanimate matter to first life on our planet Unlike the relatively unreactive organic molecules the traditional protagonists of orthodox origin of life hypotheses metals and minerals are natural catalysts abundantly present in the majority of settings on the early Earth considered as conducive to bringing forth life In these palaeogeochemical settings they may have catalyzed the anabolic conversions of inorganic precursor molecules into organics and may have converted redox disequilibria between environmental reductants and oxidants into the ordering i.e. the lowering of entropy of first living entities Far fetched Yet this is precisely what metal ions do in life today An unlikely coalition of biology biochemistry and bioenergetics and physics thermodynamics and

condensed matter physics is growingly questioning the plausibility of the orthodox hypotheses while putting metal ions and minerals centre stage in their scenarios In this volume 29 internationally renowned experts from fields as diverse as microbiology biochemistry astrobiology electrochemistry ecology mineralogy geology and geochemistry shine light from their individual angles on this topic bringing home metal ions primordial importance to extant life presenting minerals with tantalizing reactivities appearing as look alikes of life s processes and sketching out plausible metal ion based scenarios for life s emergence on planet Earth Metal Ions and the Route to Life provides the empirical groundwork to interested researchers and the general public for revisiting their preconceived ideas about the origin of life and for appreciating the absolute indispensability of metal ions in life now just as at its beginnings     Deuterium NMR Spectroscopy of Solid State Electronically Labile Complexes Sheri A. Hunt,1997     *Electron Transfer I* Martin Baumgarten,1994

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