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H. A. O. Hill · P. J. Sadler
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Metal Sites in Proteins and Models

Iron Centres



Springer

Structure And Bonding Vol 88 Metal Sites In Proteins And Models Iron Centres

**National Institute of Standards and
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Structure And Bonding Vol 88 Metal Sites In Proteins And Models Iron Centres:

Metal Sites in Proteins and Models H.A.O. Hill,P.J. Sadler,A.J. Thomson,2006-07-27 Biological chemistry is a major frontier of inorganic chemistry Three special volumes devoted to Metal Sites in Proteins and Models address the questions how unusual entatic are metal sites in metalloproteins and metalloenzymes compared to those in small coordination complexes And if they are special how do polypeptide chains and co factors control this The chapters deal with iron with metal centres acting as Lewis acids metals in phosphate enzymes with vanadium and with the wide variety of transition metal ions which act as redox centres They illustrate in particular how the combined armoury of genetics and structure determination at the molecular level are providing unprecedented new tools for molecular engineering **Subject Guide to Books in Print** ,1991 *International Books in Print* ,1990 *Forthcoming Books* Rose Arny,1998 *American Book Publishing Record* ,1998 **Books in Print Supplement** ,2002 **X-Ray Absorption and X-Ray Emission Spectroscopy, 2 Volume Set** Jeroen A. van Bokhoven,Carlo Lamberti,2016-03-21 X Ray Absorption and X ray Emission Spectroscopy Theory and Applications During the last two decades remarkable and often spectacular progress has been made in the methodological and instrumental aspects of x ray absorption and emission spectroscopy This progress includes considerable technological improvements in the design and production of detectors especially with the development and expansion of large scale synchrotron reactors All this has resulted in improved analytical performance and new applications as well as in the perspective of a dramatic enhancement in the potential of x ray based analysis techniques for the near future This comprehensive two volume treatise features articles that explain the phenomena and describe examples of X ray absorption and emission applications in several fields including chemistry biochemistry catalysis amorphous and liquid systems synchrotron radiation and surface phenomena Contributors explain the underlying theory how to set up X ray absorption experiments and how to analyze the details of the resulting spectra X Ray Absorption and X ray Emission Spectroscopy Theory and Applications Combines the theory instrumentation and applications of x ray absorption and emission spectroscopies which offer unique diagnostics to study almost any object in the Universe Is the go to reference book in the subject for all researchers across multi disciplines since intense beams from modern sources have revolutionized x ray science in recent years Is relevant to students postdocurates and researchers working on x rays and related synchrotron sources and applications in materials physics medicine environment geology and biomedical materials **Publications of the National Institute of Standards and Technology 1988 Catalog** Rebecca J. Pardee,National Institute of Standards and Technology (U.S.),1989 [Metal Ions in Biological Systems](#) Helmut Sigel,Astrid Sigel,2024-11-01 Continuing to explore the relationship between the chemistry of metals and life processes this volume in the Metal Ions in Biological Systems series examines the degradation of environmental pollutants by micro organisms It covers the action of micro organisms and metalloenzymes on lignin tannins hemicelluloses cellulose and aromatic compounds as well as on halogenated aromatics and

aliphatics analyzes mechanistic aspects considers the role of metalloproteases in biotechnology and wastewater sludge treatment and describes the metal dependent conversion of inorganic nitrogen and sulfur compounds *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.),1990

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