Record Nr. UNINA9910134935303321 Physical inorganic chemistry [[electronic resource]]: reactions, **Titolo** processes and applications / / edited by Andreja Bakac Pubbl/distr/stampa Hoboken, NJ,: Wiley, c2010 **ISBN** 0-470-60257-0 9786612688904 0-470-60255-4 Descrizione fisica 1 online resource (620 p.) Altri autori (Persone) BakacAndreja Disciplina 547/.13 Physical inorganic chemistry Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Includes index. ""PHYSICAL INORGANIC CHEMISTRY""; ""CONTENTS""; ""Preface""; Nota di contenuto ""Contributors""; ""1 Electron Transfer Reactions""; ""2 Proton-Coupled Electron Transfer in Hydrogen and Hydride Transfer Reactions""; ""3 Oxygen Atom Transfer""; ""4 Mechanisms of Oxygen Binding and Activation at Transition Metal Centers"; ""5 Activation of Molecular Hydrogen""; ""6 Activation of Carbon Dioxide""; ""7 Chemistry of Bound Nitrogen Monoxide and Related Redox Species""; ""8 Ligand Substitution Dynamics in Metal Complexes""; ""9 Reactivity of Inorganic Radicals in Aqueous Solution"" ""10 Organometallic Radicals: Thermodynamics, Kinetics, and Reaction Mechanisms"""11 Metal-Mediated Carbona€?Hydrogen Bond Activation""; ""12 Solar Photochemistry with Transition Metal Compounds Anchored to Semiconductor Surfaces""; ""Index"" This go-to text provides information and insight into physical inorganic Sommario/riassunto chemistry essential to our understanding of chemical reactions on the molecular level. One of the only books in the field of inorganic physical chemistry with an emphasis on mechanisms, it features contributors at the forefront of research in their particular fields. This essential text discusses the latest developments in a number of topics currently among the most debated and researched in the world of chemistry, related to the future of solar energy, hydrogen energy, biorenewables,