

Charge Transfer Photochemistry Of Coordination Compounds

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Charge Transfer Photochemistry Of Coordination

Irradiation of charge transfer absorption bands of coordination complexes can result in net oxidation reduction or ligand exchange reactions. The photoredox processes generally involve the formation of reactive radicals in the primary photochemical act.

The Charge Transfer Photochemistry of Coordination ...

This book summarizes the results of studies on charge transfer photochemistry of metal complexes of the past few years. The material covered is organized in such a manner that each chapter discusses the photoredox properties of complexes of a series of metals which belong to the same column of the periodic table, including both transition metals and main group metals (for those that show photoactivity).

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This book's first edition appeared in 1972 and has succeeded in the difficult task of staying current despite enormous changes and progress enjoyed by inorganic chemistry over the last 21 years. Charge Transfer Photochemistry of Coordination (Horvath, Otto; Stevenson, Kenneth L.)

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Summarizes the results of recent studies on charge transfer photochemistry of metal complexities. Each chapter discusses the photoredox properties of complexes of a series of metals which belong to the same column of the periodic table, including both transition and main group metals.

Charge transfer photochemistry of coordination compounds ...

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V. Balzani and V. Carassiti: Photochemistry of Coordination Compounds, Academic Press, New York (1970). ... Kunkely H. (1993) Charge Transfer Excitation of Coordination Compounds. Generation of Reactive Intermediates. In: Kalyanasundaram K., Grätzel M. (eds) Photosensitization and Photocatalysis Using Inorganic and Organometallic Compounds ...

Charge Transfer Excitation of Coordination Compounds ...

Charge Transfer of Iron(III) Monomeric and Oligomeric Aqua Hydroxo Complexes: Semiempirical Investigation into Photoactivity. Inorganic Chemistry 2002 , 41 (9) , 2505-2517.

Photochemistry of transition-metal coordination compounds ...

is a charge transfer reaction of the excited metal complex. It is concerned primarily with in-depth descriptions and discussions of the photochemistry of complexes themselves, with less emphasis on theoretical discussions. This book is aimed at professional photochemical researchers as well as

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A charge-transfer complex (CT complex) or electron-donor-acceptor complex is an association of two or more molecules, or of different parts of one large molecule, in which a fraction of electronic charge is transferred between the molecular entities.The resulting electrostatic attraction provides a stabilizing force for the molecular complex. The source molecule from which the charge is ...

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The results suggest that a coordination bond forms between structure water as an electron donor and zinc (II) as an electron acceptor, thus increasing the electron density of zinc (II). As a result, a ligand-to-metal charge transfer (LMCT) occurs from structure water to zinc (II). Download : Download high-res image (281KB)

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Photochemistry and photophysics of coordination compounds ...

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