

UNIT 3: INORGANIC PHOTOCHEMISTRY (9 HRS)

3.1 Excited states in transition metal complexes: Intra-ligand excited states and metal centred excited states. Photochemical reactions: Substitution and redox reactions of Cr(III), Co(III), Rh(III) and Ru(II) complexes, manganese-based photosystems for the conversion of water into oxygen, applications-synthesis and catalysis, chemical actinometry and photochromism, metal-metal multiple bonds, dissociative photochemistry, ligand loss.

3.2 Metal complex sensitizers, electron relay, semiconductor supported metal oxide systems, water photolysis, nitrogen fixation and CO₂ reduction, dinitrogen splitting.

PART 2

MANGANESE-BASED PHOTOSYSTEMS FOR THE CONVERSION OF WATER INTO OXYGEN

Manganese (Mn) sparks the photosynthesis process by splitting water after Photosystem II (PSII) fixes light to initiate the conversion of CO₂ and water into carbohydrates.



The water-oxidizing complex (WOC), also known as the oxygen-evolving complex (OEC), of photosystem II in oxygenic photosynthetic organisms efficiently catalyzes water oxidation. *Pirson* was the first to discover that Mn is essential for oxygenic photosynthesis and extensive research since then has led to the establishment of the PSII pigment-protein complex to be responsible for photosynthetic oxygen evolution. Manganese-based catalytic systems including Mn-terpy dimer/titanium oxide, Mn-oxo tetramer/Nafion, Mn-terpy oligomer/tungsten oxide, manganese-calcium (Mn₄CaO₅(H₂O)₄) cluster which are highly active in water oxidation catalysis.

Water oxidation to produce one oxygen molecule requires the removal of four electrons, and Kok et al proposed an explanation for the observed oscillation of the oxygen evolution pattern. Kok's hypothesis was that in a cycle of water oxidation, a succession of oxidizing equivalents is stored at the WOC, and when four oxidizing equivalents have accumulated one by one, an

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AW Rasmussen



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American Book Publishing Record ,2001 Cumulated Index to the Books ,1999 *The Stratosphere and Mesosphere: Principal lectures and seminars* ,1976 *Russian Chemical Reviews* ,2007 **Nuclear Science Abstracts** ,1974 **Forthcoming Books** Rose Army,1997 The Publishers' Trade List Annual ,1985 Inorganic Photochemistry ,2011-07-14 The Advances in Inorganic Chemistry series present timely and informative summaries of the current progress in a variety of subject areas within inorganic chemistry ranging from bio inorganic to solid state studies This acclaimed serial features reviews written by experts in the field and serves as an indispensable reference to advanced researchers Each

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In a world inundated with displays and the cacophony of fast conversation, the profound power and mental resonance of verbal beauty usually disappear in to obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the lyrical pages of **Inorganic Photochemistry Lecture Notes**, a interesting work of literary splendor that impulses with raw feelings, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this interesting opus courses readers on a mental odyssey, delicately exposing the latent potential and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main subjects, dissect their fascinating writing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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