

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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**Peter V. Schastnev, Lyudmila N.
Shchegoleva**



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American Scientist ,1942 **Energy Abstracts for Policy Analysis** ,1975-07 *Concepts of Inorganic Photochemistry*
Arthur W. Adamson, Paul D. Fleischauer, 1975 PHOTOPHYSICAL PROCESSES ENERGY LEVELS AND SPECTRA KINETICS
OF PHOTOPHYSICAL PROCESSES CHARGE TRANSFER PHOTOCHEMISTRY SUBSTITUTIONAL PHOTOCHEMISTRY OF
FIRST ROW TRANSITION ELEMENTS PHOTOCHEMISTRY OF THE HEAVIER ELEMENTS PHOTOCHEMISTRY OF CARBONYL
COMPLEXES PHOTOCHEMISTRY OF 1,3-DIKETONATE CHELATES THE PHOTOLYSIS OF SIMPLE INORGANIC IONS IN
SOLUTION PHOTOCHEMISTRY IN THE SOLID STATE PHOTOCHEMISTRY AND CHEMILUMINESCENCE *Directory of
Published Proceedings* ,1988 **Photophysics of Organometallics** Alistair J. Lees, 2009-12-03 Arvind Kumar Shih Sheng
Sun and Alistair J Lees Photophysics and Photochemistry of Organometallic Rhenium Diimine Complexes Conor Long
Photophysics of CO Loss from Simple Metal Carbonyl Complexes Anton n Vlcek Jr Ultrafast Excited State Processes in Re I
Carbonyl Diimine Complexes From Excitation to Photochemistry Kenneth Kam Wing Lo Exploitation of Luminescent
Organometallic Rhenium I and Iridium III Complexes in Biological Studies Maria L Muro Aaron A Rachford Xianghuai Wang
and Felix N Castellano Platinum II Acetylide Photophysics Andreas F Rausch Herbert H H Homeier and Hartmut Yersin
Organometallic Pt II and Ir III Triplet Emitters for OLED Applications and the Role of Spin Orbit Coupling A Study Based on
High Resolution Optical Spectroscopy **Pure and Applied Chemistry** ,1970 Some vols include Plenary lectures of the
International Conference on Organometallic Chemistry **Emerging Nanomaterials for Energy Conversion and
Storage Applications** Guohua Jia, Hongbo Li, Zongyou Yin, 2022-01-04 **Choice** ,2008 [The Cumulative Book Index](#)
,1999 **Molecular Distortions in Ionic and Excited States** Peter V. Schastnev, Lyudmila N. Shchegoleva, 1995-08-25
This book discusses the achievements in the study on the structure of active species being formed at the change of molecule
charge or electronic state It gives a systematic outline of the problem of molecular structure distortions in radical ionic and
excited states involving experimental and theoretical material The text focuses on analyzing the physical reasons for
structural distortion occurrences at a model level and also with results of detailed quantum chemical calculations The book
presents numerous facts on the structural distortions in ions of various types of organic molecules Data is presented for the
first time on distortions in radical ions of polyfluoroaromatics and other conjugated molecules [American Book Publishing
Record](#) ,2001 *Cumulated Index to the Books* ,1999 **The Stratosphere and Mesosphere: Principal lectures and
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Army, 1997 [The Publishers' Trade List Annual](#) ,1985 [Engineering and Mining Journal](#) ,1912 **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
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