

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

Inorganic Photochemistry Lecture Notes

A Loxley



Inorganic Photochemistry Lecture Notes:

The book delves into Inorganic Photochemistry Lecture Notes. Inorganic Photochemistry Lecture Notes is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Inorganic Photochemistry Lecture Notes, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Inorganic Photochemistry Lecture Notes
- Chapter 2: Essential Elements of Inorganic Photochemistry Lecture Notes
- Chapter 3: Inorganic Photochemistry Lecture Notes in Everyday Life
- Chapter 4: Inorganic Photochemistry Lecture Notes in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Inorganic Photochemistry Lecture Notes. The first chapter will explore what Inorganic Photochemistry Lecture Notes is, why Inorganic Photochemistry Lecture Notes is vital, and how to effectively learn about Inorganic Photochemistry Lecture Notes.

3. In chapter 2, the author will delve into the foundational concepts of Inorganic Photochemistry Lecture Notes. This chapter will elucidate the essential principles that must be understood to grasp Inorganic Photochemistry Lecture Notes in its entirety.

4. In chapter 3, the author will examine the practical applications of Inorganic Photochemistry Lecture Notes in daily life. This chapter will showcase real-world examples of how Inorganic Photochemistry Lecture Notes can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Inorganic Photochemistry Lecture Notes in specific contexts. This chapter will explore how Inorganic Photochemistry Lecture Notes is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Inorganic Photochemistry Lecture Notes. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Inorganic Photochemistry Lecture Notes.

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Inorganic Photochemistry Lecture Notes Introduction

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