

Introduction To Photocatalysis From Basic Science To Applications

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Photocatalysis is one of the most promising technologies and it represents an easy way to utilize the energy of natural sunlight for development of a sustainable society, and the Sun can easily provide enough power for all our energy needs if it can be efficiently harvested.1,2Photocatalysis is emerging as one of the possible means that can provide viable solutions for the development of both pollution free technologies for environmental remediation and alternative clean energy supply.

Chapter 1A Introduction to Sun light Driven Photocatalysis ...

CHAPTER - II PRINCIPLES OF PHOTOCATALYSIS 2.1 Introduction The word photocatalysis is composed of two parts: Photo and catalysis. The prefix photo is defined as "light". Catalysis is the process where a substance participates in modifying the rate of a chemical transformation of the reactants without being altered in the end.

CHAPTER - II PRINCIPLES OF PHOTOCATALYSIS

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1.1 Introduction Heterogeneous photocatalysis is the interdisciplinary field of science that originated from the intersection of several areas of Chemistry and Physics, and to some extent Photobiology (natural photosynthesis).

Heterogeneous Photocatalysis - an overview | ScienceDirect ...

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Focusing on the basic principles of semiconductor photocatalysis, this book also gives a brief introduction to photochemistry, photoelectrochemistry, and homogeneous photocatalysis. In addition, the author - one of the leading authorities in the field - presents important environmental and practical aspects.

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