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Photochemistry is the branch of chemistry concerned with the chemical effects of light. Generally, this term is used to describe a chemical reaction caused by absorption of ultraviolet (wavelength from 100 to 400 nm), visible light (400–750 nm) or infrared radiation (750–2500 nm).

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Photochemistry - Wikipedia

The fascinating field of inorganic photochemistry is extremely diverse. This chapter discusses some general principles governing light-induced properties of metal-containing molecular compounds.

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Research in inorganic photochemistry has expanded enormously in scope and importance, especially in the past decade. The development was encouraged by Balzani and Carassiti in their exhaustive monograph (I) on the photochemistry of coordination compounds that just preceded the decade.

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Introduction to Inorganic Photochemistry

Some of the early quantitative history of inorganic photochemistry is recalled and some of the early experiences of the writer. Conceptual landmarks in the progress to the present are outlined. The role of the Italian school of

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number) of molecules or ions (ligands) directly bonded to the metal center.

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- ScienceDirect

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This monograph/reference focuses on those subjects that are considered essential to an understanding of inorganic

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photochemistry. Graduate students with a background in physical chemistry will find that the quantum mechanical treatments related to the principles of spectroscopy and chemical dynamics are readily accessible.

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The Advances in Inorganic Chemistry

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This monograph/reference focuses on those subjects that are considered essential to an understanding of inorganic photochemistry. Graduate students with a background in physical chemistry will find that the quantum mechanical treatments related to the principles of spectroscopy and chemical dynamics are readily

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accessible. And professionals will find that the tabulated data, equations, and general information makes this book an essential complement to the journal literature required in the daily planning of photochemical work. Chapters cover the nature of light and the uncertainty principle, detection of intermediates,

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elements of inorganic spectroscopy, kinetics of photoluminescence, photoredox reactions, ligand field photochemistry, and elements of organometallic photochemistry. Extensive appendixes cover physical constants and conversion factors for photochemical work, character tables for symmetry groups, vibrational

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motions, description of the chemical bonding in coordination complexes, charge transfer transitions, and Born cycles related to charge transfer processes.

Focusing on complex naturally-occurring and synthetic supramolecular arrays, this work describes the mechanism by which

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transition metal complexes bind to DNA and how the DNA scaffold modifies the photochemical and photophysical properties to bound complexes. It includes details of photoinduced electron transfer between intercalated molecules, and examines thermally and photochemically induced electron transfer in

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supramolecular assemblies consisting of
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PHOTOPHYSICAL PROCESSES -
ENERGY LEVELS AND SPECTRA;
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Page 46/67

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A description of applications to electrical conductors, nonlinear optical devices, polymer light-emitting diodes (LEDs), electronic devices, batteries, antistatic coatings, and transistors. It reviews cases of metal-organic polymers incorporated with traditional organic polymers; assesses

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key properties of conjugated polymers; discusses features of d10 complexes and their interactions with DNA; and more.

Bioinorganic photochemistry is a rapidly evolving field integrating inorganic photochemistry with biological, medical and environmental sciences. The

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interactions of light with inorganic species in natural systems, and the applications in artificial systems of medical or environmental importance, form the basis of this challenging inter-disciplinary research area. Bioinorganic Photochemistry provides a comprehensive overview of the concepts and reactions

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fundamental to the field, illustrating important applications in biological, medical and environmental sciences.

Topics covered include: Cosmic and environmental photochemistry

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Molecular aspects of photosynthesis
Photoinduced electron

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transfer in biosystems Modern therapeutic strategies in photomedicine The book concludes with an outlook for the future of environmental protection, discussing emerging techniques in the field of pollution abatement, and the potential for bioinorganic photochemistry as a pathway to developing cheap, environmentally

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friendly sources of energy. Written as an authoritative guide for researchers involved in the development of bioinorganic photochemical processes, Bioinorganic Photochemistry is also accessible to scientists new to the field, and will be a key reference source for advanced courses in inorganic, and

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bioinorganic chemistry.

Applied Photochemistry encompasses the major applications of the chemical effects resulting from light absorption by atoms and molecules in chemistry, physics, medicine and engineering, and contains contributions from specialists in these key

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areas. Particular emphasis is placed both on how photochemistry contributes to these disciplines and on what the current developments are. The book starts with a general description of the interaction between light and matter, which provides the general background to photochemistry for non-specialists. The following chapters

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develop the general synthetic and mechanistic aspects of photochemistry as applied to both organic and inorganic materials, together with types of materials which are useful as light absorbers, emitters, sensitisers, etc. for a wide variety of applications. A detailed discussion is presented on the photochemical processes

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occurring in the Earth's atmosphere, including discussion of important current aspects such as ozone depletion. Two important distinct, but interconnected, applications of photochemistry are in photocatalytic treatment of wastes and in solar energy conversion. Semiconductor photochemistry plays an important role in

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these and is discussed with reference to both of these areas. Free radicals and reactive oxygen species are of major importance in many chemical, biological and medical applications of photochemistry, and are discussed in depth. The following chapters discuss the relevance of using light in medicine, both

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with various types of phototherapy and in medical diagnostics. The development of optical sensors and probes is closely related to diagnostics, but is also relevant to many other applications, and is discussed separately. Important aspects of applied photochemistry in electronics and imaging, through processes such as

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photolithography, are discussed and it is shown how this is allowing the increasing miniaturisation of semiconductor devices for a wide variety of electronics applications and the development of nanometer scale devices. The final two chapters provide the basic ideas necessary to set up a photochemical laboratory and

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to characterise excited states. This book is aimed at those in science, engineering and medicine who are interested in applying photochemistry in a broad spectrum of areas. Each chapter has the basic theories and methods for its particular applications and directs the reader to the current, important literature in the field, making

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Applied Photochemistry suitable for both the novice and the experienced photochemist.

Focusing on practical applications, the author provides a balanced introduction to the many possible technological uses of metal complexes. Coverage includes the

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transition metals, lanthanide and actinide complexes, metal porphyrins, and many other complexes. This volume meets the needs of students and scientists in inorganic chemistry, chemical physics, and solid-state physics.

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