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photochemistry and, by reference to a range of organic reaction types, its effective use in the synthesis of new organic compounds and in various applications.

### **Photochemistry of Organic Compounds: From Concepts to ...**

Mechanistic organic photochemistry is the aspect of organic photochemistry which seeks to explain the

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mechanisms of organic photochemical reactions. The absorption of ultraviolet light by organic molecules often leads to reactions. In the earliest days, sunlight was employed, while in more modern times ultraviolet lamps are employed.

**Mechanistic organic photochemistry - Wikipedia**

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COMPOUNDS**

Indeed, one of the classic photochemical reactions of organic chemistry is the formation of 1,1,2,2-tetraphenyl-1,2-ethanediole (3, benzopinacol) by

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diphenylmethanone (

2, benzophenone) in

isopropyl alcohol. The

yield is quantitative.

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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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- The first law of photochemistry, the Grotthuss-Draper law, states that light must be absorbed by a compound in order for a photochemical reaction to take place.
- The second law of photochemistry, the Stark-Einstein law, states that for each photon of light absorbed by a chemical system, only one molecule is

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activated for subsequent reaction. This "photoequivalence law" was derived by ...

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Organic

mechanoluminescence

(ML) compounds have

experienced

breakthrough

developments in recent

years, with ML being

discovered in many

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kinds of organic compounds. Accordingly, the ML composition is becoming more complicated; complications can be observed from the initial stages of nitrogen discharge to fluo 2020 Materials Chemistry Frontiers Review-type Articles M aterials&#160;Chemist ry&#160 ...

**The development of**

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**: Petr Klan ...**

Description : Organic photochemistry is the science arising from the application of photochemical methods to organic chemistry and organic chemical methods to photochemistry.

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The aim of organic photochemistry is to replace either thermal activation or the use of reactive substances with photons (light) for the transformation of organic molecules.

Excitation of a substance leads to an excited state, usually very energetic, which can evolve toward the desired product, or lead to a nonselective

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degradation.

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knowledge explosion  
that occurred in the  
course of the  
preceding half century  
has led some to  
conclude that the  
photochemistry of

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organic molecules is a mature field. By describing the intricacies of photophysical and photochemical responses of a cornucopia of selected ...

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biogenic surfactants: a  
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major source of abiotic

volatile organic

compounds ...

However, the results

obtained suggest that

abiotic photochemistry

can lead to similar

emissions into the

atmosphere, especially

in less biologically-

active regions.

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On the basis of the  
research literature of  
the last fifty years, we  
have reviewed the  
photochemical  
properties of different  
hydrolytic Fe (III)  
species and the

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aqueous solutions  
initiated by them

(mainly including low-  
molecular-weight Fe  
(III)-OH complexes, Fe  
(III) oxides ( $\text{Fe}_2\text{O}_3$ )  
and Fe (III) hydroxides  
( $\text{FeOOH}$ )).

**Photochemistry of  
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The photochemistry of  
three most important  
structural classes of

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organic substrates is described and documented on well-selected examples. The chapters deal with alkenes, aromatics, and carbonly compounds, respectively.

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