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The biacetyl product, formed in the third reaction, may itself be excited by light or accept excitation energy from an excited acetone molecule, further complicating this process.

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By comparison, the light induced chlorination of methane, or other alkanes, has a large quantum yield, often near  $10^6$ ,...

Mechanistic organic photochemistry - Wikipedia  
It is not our purpose here to review organic photochemistry in detail - rather, we shall mention a few types of important photochemical reactions and show how these can be explained by the principles discussed in the preceding section. Compounds have very different chemical behavior in their excited states compared to their ground states.

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Photochemistry of organic compounds. I, Selected aspects ...

Mechanistic organic photochemistry is the aspect of organic photochemistry which seeks to explain the mechanisms of organic photochemical reactions. The absorption of ultraviolet light by organic molecules often leads to reactions. In the earliest days, sunlight

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was employed, while in more modern times ultraviolet lamps are employed.

Photochemistry - Organic Syntheses with Light  
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Photochemistry of organic compounds. II, Carbonyl ...  
Examines the chemistry of

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olefins and conjugated  
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techniques and studies of reactive intermediates, and illustrating ...

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CHEMISTRY - Vol. II -

Organic Photochemistry -  
Antonio Papagni

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Support Systems (EOLSS)

produced which can be  
pictured as the transition  
state of a photo-chemical  
reaction. This high energy  
state or electronically  
excited state of the  
molecule is the heart of all

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Overview. Organic

Photochemistry can broadly  
be divided into two,  
covering either the physical

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organic chemistry aspects of the subject or the practical application of photochemistry in the synthesis of new molecules. Photochemistry can offer the synthetic organic chemist a high yielding, clean and efficient reaction process,...

Photochemistry - Wikipedia  
Photochemistry of Organic Compounds. From Concepts to Practice. Postgraduate Chemistry Series. By Petr Klán and Jakob Wirz.

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Examines the electronics of the simple carbonyl group, the effect of structure on photoreduction of benzophenones and acetophenones, non-conjugated unsaturated ketones, the photochemistry of cyclic enones, and cross-conjugated cyclohexadienones.

**ORGANIC PHOTO-CHEMISTRY**  
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

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(nm) or infrared radiation  
(750–2500 nm).

## 28.3: Organic Photochemistry - Chemistry LibreTexts

### 2) UV spectra of substrates:

A first hint. Before starting a photochemical reaction a UV/vis spectrum of the “photoactive” compound is recorded. The “photoactive” compound is the molecule which should be electronically excited and undergo or initiate a reaction from its excited singlet or triplet state.

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