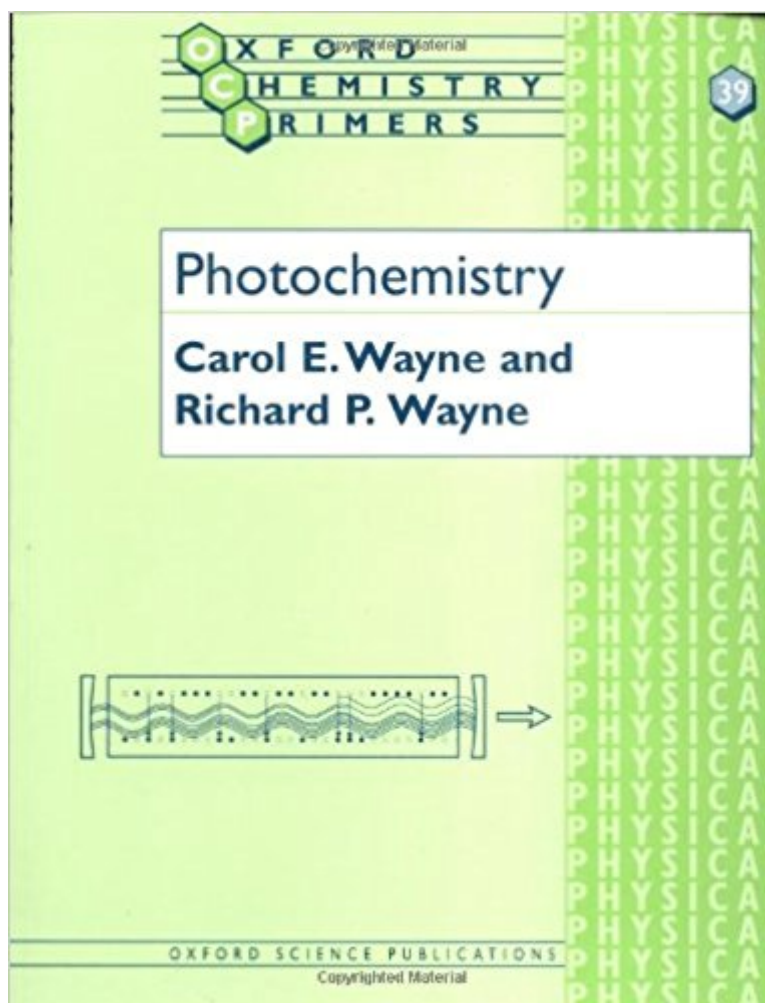


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# Photochemistry (Oxford Chemistry Primers)



## Synopsis

Photochemistry is the study of the interaction of light with matter, and this concise and clearly written book provides a very accessible introduction to the subject. When visible or ultraviolet light is absorbed by a molecule, the result often is its apparently erratic behavior, with chemical properties distinct from those of the unexcited molecule. The primary part of this volume explores the role of light in this metamorphosis, and explains the chemical processes that occur after the absorption of light. The emission of radiation as fluorescence and phosphorescence is explained in depth in a separate chapter. The final two chapters are dedicated to the impact photochemistry has on life, and to the ways Man has made use of this discipline in a variety of applications.

## Book Information

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`an acceptable standard, and it will therefore be useful to students for consolidating the subject matter of a lecture course and providing a deeper understanding' Michael Oelgemoller, Organisch-Chemisches institut der Universitat Koln, Cologne, Angew. Chem. Int. Ed. Engl. 1997, 36, No. 11 `An outstanding text in this series provides a highly authoritative, lucid, concise account of the subject and a more detailed presentation than is available in most undergraduate textbooks of physical chemistry. It covers both underlying fundamental aspects and applications especially innature and in medicine.' Aslib Book Guide, vol.61, no.12, December 1996.

Photochemistry is the study of the interaction of light with matter. This Primer describes the

chemistry that follows the absorption of light, and explains the extraordinary influence of visible or ultraviolet light on chemical behaviour. After the absorption of light, a molecule may acquire completely different properties from those of its parent. The authors explain the role of light initiating this metamorphosis, the dependence of natural processes such as photosynthesis on photochemistry, the emission of radiation as fluorescence and phosphorescence, and current applications of photochemistry, which include photography, photopolymerization, photodegradable polymers, and the synthesis of organic chemicals. This book is an essential introduction to the intriguing field of photochemistry.

I purchased and studied this book. It is an excellent brief presentation of photochemistry concepts. The second author is a well-known expert in the field who has original high level publications on photochemistry.

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