

Photochemistry of Organic Compounds: From Concepts to Practice

By Petr Klán, Jakob Wirz

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Photochemistry of Organic Compounds: From Concepts to Practice provides a hands-on guide demonstrating the underlying principles of 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.

The book presents a complete and methodical approach to the topic,

- Working from basic principles, discussing key techniques and studies of reactive intermediates, and illustrating synthetic photochemical procedures.
- Incorporating special topics and case studies covering various applications of photochemistry in chemistry, environmental sciences, biochemistry, physics, medicine, and industry.
- Providing extensive references to the original literature and to review articles.
- Concluding with a chapter on retrosynthetic photochemistry, listing key reactions to aid the reader in designing their own synthetic pathways.

This book will be a valuable source of information and inspiration for postgraduates as well as professionals from a wide range of chemical and natural sciences.

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Editorial Review

From the Back Cover

Organic Photochemistry can broadly be divided into two, covering either the physical 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, and can give access to structures or stereochemistry that are difficult to prepare in other ways.

This new volume in the Postgraduate Chemistry Series covers synthetic organic photochemistry at postgraduate student and research level. It provides a thorough overview of this important and exciting area of research, demonstrating the underlying principles of synthetic organic photochemistry and, by reference to a range of organic reaction types, it's effective use in the synthesis of new organic materials.

Written for postgraduate students and those beginning their research careers, the book will also serve as a handy reference for more experienced workers.

About the Author

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Jakob Wirz is Professor of Physical Chemistry in the Department of Chemistry, University of Basel, Switzerland

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