



Photochemically-Generated Intermediates in Synthesis

Angelo Albini, Maurizio Fagnoni

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Examines the latest applications of photochemistry to generate important intermediates

Presenting the latest breakthroughs in the field of organic photochemistry, this book offers tested and proven photochemical approaches to synthesis, creating promising new possibilities and applications for photochemical reactions. It focuses on photoreactions involving an intermediate where mechanistic aspects control the course of the reaction and its synthetic value. Readers will discover new insights into the mechanisms and nature of photo-produced reactive intermediates for organic synthesis as well as the methods to generate them. Moreover, by focusing on highly efficient techniques for producing such species, the authors enable researchers to design and perform photoreactions within the framework of green, sustainable chemistry.

Photochemically-Generated Intermediates in Synthesis begins with a discussion of the principles and practice of photo-generated intermediates. Next, the book explores:

- Photogeneration of carbon-centered radicals
- Photogeneration of heteroatom-centered radicals
- Photogeneration of biradicals and radical pairs
- Photochemical generation of radical ions
- Photogeneration of carbocations and carbanions
- Photogeneration of carbenes and nitrenes

The book's final chapter is dedicated to the photochemical manipulation of intermediates. Each chapter includes key kinetic data for typical intermediates as well as detailed case examples, giving readers all the tools needed to perform their own photochemical reactions. Comparisons to non-photochemical methods are offered whenever possible.

Photochemically-Generated Intermediates in Synthesis sets the stage for greater collaboration among photochemists and synthetic organic chemists, enabling these two research communities to fully leverage photochemistry in order to generate key intermediates needed for a broad range of synthetic reactions in organic chemistry.

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