

Synthetic Organic Photochemistry

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Dec 09, 2021 · The halogen-atom transfer (XAT) is one of the most important and applied processes for the generation of carbon radicals in synthetic chemistry. In this review, we summarize and highlight the most important aspects associated with XAT and the impact it has had on photochemistry and photocatalysis. The organization of the material starts with the ... UV-induced photochemistry has been and remains very useful in synthetic organic chemistry, allowing the direct excitation of organic molecules. Intriguing examples are [2 + 2]

cycloadditions yielding strained cyclobutanes in a single step and Norrish-type photoreactions which allow for homolytic cleavage of C–C bonds. Apr 04, 2022 · Metal–organic cages with good solubility, accessible cavities and abundant reactive sites can undergo various post-synthetic modifications to assemble into multidimensional functional materials ...

Semisynthesis, or partial chemical synthesis, is a type of chemical synthesis that uses chemical compounds isolated from natural sources (such as microbial cell cultures or plant material) as the starting materials to produce novel compounds with distinct chemical and medicinal properties. The novel compounds generally have a high molecular weight or a complex molecular ... Sep 01, 2012 · TiO₂ photocatalysis is widely used in a variety of applications and products in the environmental and energy fields, including self-cleaning surfaces, air and water purification systems, sterilization, hydrogen evolution, and photoelectrochemical conversion. The development of new materials, however, is strongly required to provide enhanced ...

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