

Visible Light-Mediated Reactions of Aryldiazoacetates (and Some Other Transformations)

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Although it is generally known that organic molecules do not directly absorb visible light, some remarkable classes of compounds can actually do so and be engaged in interesting, useful synthetic transformations. In this talk, I will present some key contributions from my research group to the field of visible light-mediated transformations of aryldiazoacetates employing the ability of these compounds to undergo a photolytic cleavage in the absence of any photocatalysts. In this scenario, highly reactive carbene intermediates are generally formed and can be trapped by different reacting partners. Additionally, some other thermal, non-catalyzed transformations will be also discussed in the context of the chemistry of diazo compounds.