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Sustainable Development of Green Synthetic Methodologies

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Abstract

Over past few decades, sustainable development of synthetic methodologies have emerged as one of the thrusting research area in the field of organic chemistry to build privileged medicinal scaffolds. The sustainability of such methodology can be improved by the utilization of green synthetic tools, selection of an efficient, economic, safe and reusable heterogeneous catalyst and use of a green reaction media. A number of green synthetic tools such as multicomponent reaction (MCR), reaction under visible light, microwave irradiation, reaction in a ball mill, nanocatalysis etc. have been developed for the sustainable organic synthesis.

As a part of our continuous interest in the sustainable development of synthetic methodologies using Green Synthetic Tools,¹⁻⁵ we have utilize visible LED light/nano-catalysis/microwave conditions for the construction of C-C and C-heteroatom bonds leading to bio-active molecules. In this conference, our effort towards organic transformations using green synthetic tools will be presented.

Keywords: Green Tools; Visible Light; Hybrid Nanomaterials; Heterogeneous Catalysis; Organic Synthesis

Biography

DDr. Subhash Banerjee has been Assistant Professor in Chemistry at Guru Ghasidas Central University, India. Dr. Banerjee has completed Ph.D. in Synthetic Organic Chemistry from Indian Association for the Cultivation of Science, India. After that he has awarded two post-doctoral fellowships by the University of Central Florida, and the University of South Dakota, USA. Dr. Banerjee has been working in the development of synthetic methodologies using green catalysts and published 85 papers in peer-reviewed international journals. He is currently member of brand ambassador of Bentham publisher, Member of Editorial board of Modern Research in Catalysts and reviewers of several international. He is also acting as guest Editor of thematic issue of Current Organic Chemistry and Current Nanoscience of Bentham Publisher.

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