

Tentative Outline

Special Issue for Current Microwave Chemistry

Microwave-assisted carbon-carbon and carbon-heteroatom bond forming reactions

Guest Editor: Dr. Bubun Banerjee

Aims & Scope:

Now-a-days, carbon-carbon and carbon-heteroatom bond-forming reactions are the backbone of synthetic organic chemistry. Scientists are constantly trying to develop new methods or modify techniques for such bond forming reactions leading to the syntheses of structurally diverse molecular entities. On the other hand, to save our 'Mother Nature' from the ever increasing chemical pollution, scientists are continuously modifying their chemical processes to make them sustainable. As a result, last decade has shown a tremendous outburst to carry out carbon-carbon and carbon-heteroatom bond-forming reactions by following green credentials. Application of microwave in organic synthesis sometimes fulfills the goal of sustainable developments. In many occasions it was found that the microwave-irradiated pathway is much more advantageous than the conventional processes. This thematic issue intends to highlight the current progress on the development of carbon-carbon and carbon-heteroatom bond forming reactions with special emphasis on microwave irradiated pathway. The submitted Review Article/Mini-review/Current Frontier should consist of novel approaches and related to recent advances based on the sustainable developments.

Subtopics:

The subtopics to be covered within this issue are listed below:

- Microwave-assisted C-C and C-heteroatom bond formations in aqueous medium
- Microwave-assisted carbon-carbon and carbon-heteroatom cross-coupling reactions in organic synthesis
- Microwave assisted synthesis of bioactive heterocycles
- Microwave-assisted C-C and C-heteroatom bond formations in non-conventional medium
- Microwave-assisted C-C and C-heteroatom bond formations via multi-component Reactions
- Microwave-assisted C-C and C-heteroatom bond forming reactions under neat conditions
- Microwave-assisted nano-catalyzed C-C and C-heteroatom bond forming reactions
- Microwave-assisted organo-catalyzed C-C and C-heteroatom bond forming reactions
- Microwave-assisted C-C and C-heteroatom bond formation under catalyst free conditions

Schedule:

- ◇ Manuscript submission deadline: December 30, 2019
- ◇ Peer Review Due: January 30, 2020
- ◇ Revision Due: February 28, 2020
- ◇ Announcement of acceptance by the Guest Editor(s): March 15, 2020
- ◇ Final manuscripts due: March 30, 2020

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