

Title of the Thematic Issue: Microwave-assisted carbon-carbon and carbon-heteroatom bond forming reactions-Part 2

Guest Editors: Dr. Bubun Banerjee

• **Scope of the Thematic Issue:**

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.

Keywords: Microwave, organic synthesis, carbon-carbon bond formation, carbon-hetero atom bond formation, sustainable synthesis, fast reactions

Subtopics:

The subtopics to be covered within this issue must be provided:

- 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 domino cyclization reactions.
- Microwave-assisted C-C and C-heteroatom bond formations *via* multi-component reactions
- Microwave-assisted C-C and C-heteroatom bond formations at ambient temperature
- Microwave-assisted C-C and C-heteroatom bond forming reactions under neat conditions
- Microwave-assisted magnetic nano-catalyzed C-C and C-heteroatom bond forming reactions
- Microwave-assisted organo-catalyzed C-C and C-heteroatom bond forming reactions

Tentative titles of the articles and list of contributors:

Sl. No.	Name	Address	Proposed title
1	Prof. Rakesh Kumar Sharma	Professor, Department of Chemistry University of Delhi, Delhi-110007, India. Email: rksharmagreenchem@hotmail.com	Microwave-assisted C-C and C-heteroatom bond formation using magnetic retrievable nanocatalysts
2.	Dr. Pranab Ghosh	Professor, Department of Chemistry North Bengal University, Darjeeling, India. Email: pizy12@yahoo.com	Microwave-assisted C-C and C-heteroatom bond formations in aqueous medium
3.	Dr. Srinivas Reddy	Assistant Professor in chemistry Vaagdevi degree and Pg college Hanamkonda Telangana, Email: avula.sathwikreddy@gmail.com	Microwave Assisted synthesis of methylene bis and hybrid heterocycles
4.	Dr. Ram Singh	Associate Professor; Department of Applied Chemistry, Delhi Technological University, Bawana Road,	Microwave-assisted reaction in water

		Delhi-42, INDIA, Email: singh_dr_ram@yahoo.com	
5	Prof. Bimal Krishna Banik	Professor, Department of Mathematics and Natural Sciences. College of Sciences and Human Studies, Deanship of Research Development, Al Khobar 31952, Kingdom of Saudi Arabia. Email: bimalbanik10@gmail.com	Microwave Induced Green chemistry approach towards synthesis of heterocyclic compounds <i>via</i> C-N Bond Forming Reactions.
6	Dr. Dipak Sharadrao Dalal	School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon - 425 001(M. S.), India Email: dsdalal2007@gmail.com	Microwave-assisted domino cyclization reactions

- ✧ Manuscript submission deadline: 31.3.2021
- ✧ Peer Review Due: 30.4.2021
- ✧ Revision Due: 15.5.2021
- ✧ Announcement of acceptance by the Guest Editors: 10.6.2021
- ✧ Final manuscripts due: 30.6.2021

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