

Thematic Issue: Hypervalent Iodine in Organic Synthesis

Guest Editors: Dr Ravi Kumar and Prof. Dr. Toshifumi Dohi

Scope of the Thematic Issue

Hypervalent iodine compounds formally feature expanded valence shells at iodine. These reagents are broadly used in synthetic chemistry due to the ability to participate in well-defined oxidation–reduction processes and because the ligand-exchange chemistry intrinsic to the hypervalent center allows hypervalent iodine compounds to be applied to a broad array of oxidative substrate functionalization reactions. The current Research Topic is to cover the recent advances in the oxidative coupling using hypervalent iodine reagents. Areas to be covered in this Research Topic may include, but are not limited to: Photochemical Transformations, Rearrangements, Heterocyclic Synthesis, Fluorination Reactions and theoretical and computational aspects related to the these reagents.

Keywords

Hypervalent Iodine, Catalysis, Oxidation, Coupling, Rearrangements, Photochemistry etc

Sub-topics

The sub-topics to be covered within the issue are:

- Oxidative Coupling Transformations
- Photochemical Transformations
- Rearrangements
- Heterocyclic Synthesis
- Fluorination Reactions

Schedule

- ✧ Thematic issue submission deadline: 29 Feb 2020
- ✧ Peer Review Due: 31 March 2020
- ✧ Revision Due: 30 April 2020
- ✧ Announcement of acceptance by the Guest Editors: 31 May 2020
- ✧ Final Manuscripts due: 30 June 2020

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