



Efficient Oxidation Catalysis Using Unconventional Methods

Guest Editors:

Dr. Tannistha Roy Barman

Centro de Química Estrutural,
Instituto Superior Técnico,
Universidade de Lisboa, Av.
Rovisco Pais, 1049-001 Lisboa,
Portugal

Dr. Manas Sutradhar

1. Faculdade de Engenharia,
Universidade Lusófona, Campo
Grande 376, 1749-024 Lisboa,
Portugal
2. Centro de Química Estrutural,
Instituto Superior Técnico,
Universidade de Lisboa, Av.
Rovisco Pais, 1049-001 Lisboa,
Portugal

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Message from the Guest Editors

Dear Colleagues,

Selective and efficient catalysts for oxidation reactions under sustainable conditions are an important area of current research interest. There is a high demand for the design of alternative and efficient routes under mild conditions that bypass the use of toxic acid solvents for energy-efficient catalytic processes and for a clean environment. For this purpose, several techniques (e.g., microwave irradiation, ultrasound, advanced oxidation processes (AOPs), ionic liquid or supercritical CO₂ medium and gas-phase catalysis) are employed to make the catalytic process more energy-efficient and ecofriendly. Catalysts can be homogeneous, heterogeneous or supported, depending on their nature and activity in the catalytic reactions. Papers submitted to this Issue may also include kinetic studies, theoretical calculation, and mechanistic illustrations.

The main goal of this Special Issue is to combine a variety of new and original research results on oxidation catalysis under unconventional methods. New and original research studies and review articles on this topic are welcome.

