



Sustainable Catalytic Materials for Selective Oxidation and Energy Applications

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Message from the Guest Editors

This Special Issue focuses on the development of sustainable catalytic materials for selective oxidation reactions in the context of an environmentally-friendlier chemistry with lower energy consumption including synthesis of useful chemicals by selective oxidation from bio-derived sustainable feedstocks, liquid phase alcohols oxidation, carbon dioxide preferential oxidation, oxidative dehydrogenation and ammoxidation, etc., as well as their applications in relevant topics related to sustainable energy as for example: fuel cells, production of syngas, conversion of biomass to fuels, hydrogen energy, catalytic transformation of CO₂ to fuels, and so on.

This Special Issue welcomes the recent advances and trends in the development of novel sustainable catalytic materials for selective oxidation and energy applications, and is not limited to the above-mentioned challenging reactions.

Keywords

- heterogeneous catalytic oxidation
- new sustainable catalytic materials
- fuel cells
- green and sustainable energy





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Message from the Editor-in-Chief

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