Special Issue

Emerging Catalytic Materials and Environmental Applications

Message from the Guest Editors

Current main global concerns are excess emission of greenhouse gases and the growth of environmental pollution by organic compounds arising from many industrial, agricultural and urban human activities. Different materials have been widely studied in academic research and used in a variety of advanced catalytic applications, including the removal of organic pollutants and pathogens, water splitting, CO2 reduction, etc. However, the limited application of catalytic processes for environmental remediation at larger scales is related to limitations of the techniques, including the low quantum efficiency of commercial catalysts and high energy consumption. This Special Issue covers the design, preparation, characterization, and catalytic performances of entirely new catalytic materials as well as the study of different modifications of known catalysts which will show enhanced performances in environmental applications. The articles relating to the study of various forms of catalytic materials and their composites (such as porous materials, nanoparticles, nanofibers, nanorods, nanowires, thin film, etc.) are welcome.

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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