Message from the Guest Editor

Dear Colleagues,

For the past few decades, nanostructured catalysts have seen rapid development in energy-based technologies and an increasing demand for sustainable fuel production and utilization. Interestingly, the nanostructure of catalysts with a designed shape, pore, modified surface, and so on affects various steps for catalytic reaction pathways, including adsorption, desorption, diffusion, separation, charge transfer, and so on. Therefore, nanostructured materials find important applications in all catalysis.

This Special Issue will focus on state-of-the-art catalysis with an emphasis on contributions on nanostructures. For example, a research topic to be covered in this Special Issue is new technologies or novel approaches to prepare nanostructured materials, both experimentally and theoretically. Furthermore, applications in catalysis using nanostructured materials will be covered. The potential applications include energy storage, including supercapacitors, batteries, and flow batteries, energy conversion, including fuel cells and solar cells, sustainable fuel production via (photo)electrolysis, and other catalytic processes.
Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty comprehensive topics: biomaterials, energy materials, advanced composites, structure analysis and characterization, porous materials, manufacturing processes and systems, advanced nanomaterials, smart materials, thin films and interfaces, catalytic materials and carbon materials, materials chemistry, materials physics, optics and photonics, corrosion and materials degradation, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics, metals and alloys, general. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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