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Advances in Nanostructured Catalysts

Guest Editor:

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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.













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Editor-in-Chief

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Message from the Editor-in-Chief

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