

Special Issue

Nanostructured Catalysts in Energy Conversion and Environmental Applications

Message from the Guest Editors

Recent promising applied nanostructured catalysts have shown their outstanding catalytic behavior in advanced oxidation processes (AOPs), photocatalysis, water splitting, fuel cells, hydrogen storage and production, etc., presenting significant progress in our modern industrialization. Designing novel nanostructured catalysts will attract extensive interests to further investigate their surface, structural and electronic features, and eventually to boost their catalytic performance. Such nanostructured catalysts are comprised of 1) materials with reduced dimensions (nanoscale) in the form of particles, thin wires, and thin films; 2) materials with nano-sized features on the surface structure; 3) bulk materials consisting of nanocrystallites in the microstructure; and 4) non-equilibrium materials with an amorphous or amorphous/crystalline composite microstructure. This Special Issue intends to highlight the recent advances of nanostructured catalysts in catalyst design and synthesis, catalytic process modelling, material characterization, properties, applications, and new developments. Both research and review articles are welcome.

Guest Editors

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Deadline for manuscript submissions

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Editor-in-Chief

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