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Nanostructured Catalysts for Sustainable Applications

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Message from the Guest Editors

Dear Colleagues,

Different nano-structured solid materials with well-defined micro-, meso-, and hierarchical porosity and controlled catalytic properties are capable of catalyzing a wide range of chemical reactions (e.g., oxidations, reductions, acid/base processes, etc.) in the liquid and gas phases, interesting for the industrial production of chemicals, fuels, energy and energy vectors. The presence of isolated metallic species, homogeneously distributed in the form of nanoparticles on specific acid/base supports or adequately incorporated in the inorganic framework of well-structured materials, provides multi-functional capacities to afford catalytic transformations and multi-step reactions in “one-pot” or “cascade-type” processes.

This Special Issue welcomes contributions devoted to the design, characterization, and application of novel nano-structured catalysts for sustainable chemical processes, mainly those focussed on the production of renewable energy and fuels or those related to the transformation of renewable raw materials.

Dr. Marcelo E. Domine
Prof. Alberto Marinas
Guest Editors

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call "nanomaterials". These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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