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Nanostructured Composite and Hybrid Materials for Pollution Remediation and Bio-Waste Valorization

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Message from the Guest Editors

This Special Issue aims to collect contributions on novel nanostructured composites and hybrid materials with high performance in the removal—adsorptive or catalytic—of hazardous compounds, as well as in the conversion of biomass towards high-added-value chemicals, such as in the selective oxidation of hydroxymethylfurfural (HMF) to furandicarboxylic acid (FDCA), the hydrogenation of furans (furfural, HMF) to the corresponding furanics (methylfuran (MF), dimethylfuran (DMF), methyltetrahydrofuran (MTHF)), the hydrodeoxygenation of oxygenated bio-oil compounds towards alkane and hydrocarbon fuels, etc.

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Special Issue



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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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