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Nanocatalysts for Energy Conversion and Storage

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Message from the Guest Editors

Dear Colleagues,

This special issue is dedicated to the original, novel, and high-impact contributions to utilizing sustainable energy sources to eliminate carbon-based fuels with cutting-edge technology in material selection and design. Consistently, energy-storage applications such as supercapacitor and battery-related works are welcome in this issue. In addition, the results on design, selection, synthesis, characterization, and application of novel materials as the new approaches in a catalytic reaction are also prospective to enrich our publications.

As we know the anthropogenic greenhouse gas emissions have contributed to climate change and global warming. One of the solutions is to generate renewable energy sources for future use to replace the current carbon-based fuels. Besides that, degrading industrial effluents are also required to remediate our environment for a high-quality life. The efforts to store sunlight energy in chemical bonds are crucial since solar-light irradiation is naturally intermittent. Furthermore, the sunlight energy can also be stored in highly efficient batteries and supercapacitors, attracting scientists' interest in this field.