



## Green Composite Electrolytes and Electrodes for Energy Storage and Conversion

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### Message from the Guest Editors

The Special Issue on “**Green Composite Electrolytes and Electrodes for Energy Storage and Conversion**” will address advances in the synthesis, processing, fabrication, characterization, and properties of green materials for possible application in energy storage and conversion. For instance, fuel cell systems contribute to sustainability and environmental issues thanks to the chemistry and thermodynamics of hydrogen electrochemical oxidation, which increases energy conversion efficiency and reduces pollutant emissions to zero. Microbial fuel cells have intrinsic green and eco-friendly aspects because they use organic and residual materials for their operations, but actual electrodes (synthetic carbon-based nanomaterials) and membranes (nafion proton exchange polymer membrane) are still based on non-green raw materials and resources, and valid alternatives should be developed. Supercapacitors have also attracted great attention owing to their unusually high energy density that may enable the use of new handheld devices, hybrid vehicles, and alternative energy sources.

