Special Issue

New Functional Materials for Energy Storage

Message from the Guest Editors

The successful commercialization of existing energy storage devices including lithium-ion batteries (LIBs), supercapacitors, fuel cells, and solar cells is mainly possible due to the evolution of innovative functional materials. The adoption of sustainable energy storage devices was strongly believed to be a permanent solution in the fight against global carbon emissions. Electrode materials are the chief components of electrochemical energy storage devices, and their function is not only to store the harvested energy; they hold diverse properties. It has to be acknowledged here that the adoption of the unique materials engineering approach with proper surface morphology and personalized properties could impart specific functions to the electrode materials, increasing the versatility and applicability of electrode materials and thus the energy storage devices for the betterment of eco-friendly society. The primary goal of this Special Issue is to summarize the prevailing functional materials strategies and innovations for existing energy storage devices. Research articles, review articles, and communications are invited for this Special Issue.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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