

Special Issue

Advanced Nanomaterials for Energy Storage Devices

Message from the Guest Editor

Recent research developments in nanoscience and nanotechnology have seen plenty of nanomaterials in energy storage systems (ESSs) and technologies. The rapid growth of portable electronics and electric vehicles have propelled the development of ESSs devices such as lithium-ion batteries and supercapacitors. Several carbon nanomaterials (viz., fullerenes, carbon nanotubes, graphene, and their assemblies), layered transition metal dichalcogenides (TMDs), porous 1D nanomaterials, 2D transition metal carbides/nitride (MXene) nanomaterials, metal–organic frameworks (MOFs), etc., have significantly impacted the energy storage systems. Further, with a rise in thermal energy consumption, the development of thermal energy storage systems can also significantly benefit the society. The Special Issue will essentially provide a platform for energy researchers to showcase their work in the emerging areas, such as solar energy conversion; energy storage including batteries, flow batteries, and supercapacitors; catalysis for energy technologies; fuel cells; hydrogen production, storage, and distribution; utilization of carbon dioxide and so on.

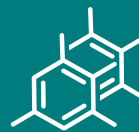
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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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