



Advanced Nanomaterials for Energy Storage Devices

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Message from the Guest Editor

Dear Colleagues,

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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Message from the Editor-in-Chief

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