

Joint Special Issue

Soft and Nanostructured Materials for Energy Conversion

Message from the Guest Editor

This Special Issue will address advances in both experimental and theoretical aspects of the synthesis, processing, fabrication, characterization, properties of soft nanomaterials for possible application in energy conversion. Soft nanostructured materials are a particular category of flexible bulk matter that shows rich dynamics and self-assembly behavior. Many examples of soft materials can be found in polymers, liquid crystals, gels, self-assemblies, membranes, thin films, composites, biomaterials etc. In recent decades, several novel methods to synthesize nanostructured materials such as nanoparticles, quantum dots, nanotubes, nanofilms, and nanowires have been developed following the capability of nanostructuring to introduce in the matter novel functionalities due to the unique combination of the structure and the mode of bonding (i.e., superplasticity of carbon nanotubes, energy harvesting of nanowires). The connections between soft materials and nanostructuring result in amazing possibilities for scientific research and future applications of these materials. For more details, please visit at mdpi.com/si/35166

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