Journal of Nanomaterials

Special Issue on
Functional Nanomaterials for Energy Conversion and Storage

CALL FOR PAPERS

In the past few decades, nanomaterials have attracted extensive attention due to the outstanding properties resulting from nanoscale dimensions: confinement effects, huge surface area to volume ratios, favorable ion/electron transport properties, altered physical properties, and so forth. Meanwhile, the energy crisis has come out as a major worldwide concern, resulting in intensive efforts being devoted to the development of advanced materials for energy conversion and storage applications. Significantly, functional nanomaterials with tailored chemical and physical properties have appealed strongly to different areas in energy conversion and storage research such as photocatalysts, lithium/sodium ion batteries, and supercapacitors.

This special issue is dedicated to facile and cost-efficient synthesis, targeted modifications, and/or recent advances in functional materials for energy conversion and storage applications. Original and high-quality research papers (experimental or theoretical work) as well as review articles are welcome in this special issue.

Potential topics include, but are not limited to:

- Synthesis of nanomaterials
- Zero- to three-dimensional (0D, 1D, 2D, and 3D) nanomaterials
- Nanomaterials with unique structures: porous structure, core-shell structure, heterojunction structure, and hierarchical structure
- Metal oxides, carbon, and functional polymer based nanomaterials
- Catalysts such as photocatalysts, oxygen evolution reaction (OER) catalysts, oxygen reduction reaction (ORR) catalysts, and heterogeneous catalysts
- Electrode materials of energy storage devices such as Li or Na ion batteries and supercapacitors
- Flexible or stretchable energy storage devices

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