



Journal of Nanomaterials

Special Issue on
**Advanced Nanomaterials for Energy and
Environmental Applications**

CALL FOR PAPERS

The increasing of energy crisis and environmental pollution has drastically threatened the survival and development of human being. In this regard, lots of technologies, for instance, rechargeable batteries and supercapacitors, solar photovoltaic cells, solar photocatalysis, biomass fuels, and efficient adsorption technology, have been developed in the past decades to exploit clean energies and efficiently deal with pollutants. The key is to obtain advanced materials with superior structures and functions as active electrodes or efficient catalysts and adsorbents. Also, it is of fundamental importance to deeply understand the relationship between structure and properties.

This special issue will be fully dedicated to advanced nanomaterials for energy and environmental applications. Original researches for new contributions in these fields, as well as review articles, are encouraged. We are particularly interested in the work that describes the synthesis and applications of nanomaterials with superior structure, including porous and low-dimensional (quantum dots, nanotubes, nanowires, nanosheets, and their assembled architectures), and fundamentally investigates aspects of preparation methods, microstructure, and composition and their influences on the functions of materials.

Potential topics include, but are not limited to:

- ▶ Nanomaterials for electrochemical cells and supercapacitors
- ▶ Advanced nanosized photocatalysts for production of hydrogen from splitting water, photoreduction of CO₂, and photodegradation of organic pollutants
- ▶ Key nanomaterials for photovoltaic applications
- ▶ Environmental catalysts for low-temperature oxidation of CO₂, selective catalytic reduction of NO_x, desulfurization, and water and soils remediation
- ▶ Efficient adsorbents for removing organic or inorganic pollutants
- ▶ Powerful catalysts for the conversion of biomass
- ▶ Hybrid cathode materials for high-energy batteries applications
- ▶ Advanced nanomaterials for pollutant detection

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