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Novel Materials for Sustainable Energy Conversion and Storage

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2020)

Message from the Guest Editor

This special issue aims the-state-of-the-art research reports of novel nanomaterials and engineering of device architectures with advanced manufacturing process for divergent energy conversion and storage applications with high sustainability. The scope of interests includes but is not limited to the following topics:

- Organic, inorganic or hybrid solar cells
- Solar fuel productions
- Electrocatalysts for electrochemical water splitting, CO₂ reduction or ammonia (NH₃) synthesis
- Cleaning technologies for removal of VOC or other pollutants
- Anode, cathode and separator materials for secondary batteries
- Nano-sciences and technologies for energy conversion and storage devices
- Manufacturing process for energy conversion and storage devices
- Engineering of device architecture and structure design for efficient energy conversion and storage

Particularly, this special issue calls for papers on advanced materials and device architectures promoting efficient energy conversion and high capability of energy storage.



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Special Issue



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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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