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Novel Nanostructured Materials for Energy-Related Applications

Guest Editor:

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Message from the Guest Editor

Applications in energy storage and conversion relies heavily on the discovery of novel materials. By exploiting materials at the nanoscale, tremendous advancements have been made that have grown many industries (e.g. semiconductor, vehicle electrification, photonics, etc.).

Novel nanostructured materials are the centerpiece for emerging technologies. The synthesis and processing of nanostructured materials plays a key role in the adoption by such technologies as batteries, fuel cells, and supercapacitors. Moreover, the characterization of such materials becomes more critical, as our understanding of phenomena occurring at atomistic length scales relies heavily on novel characterization techniques equipped with a synchrotron source.

Research in novel nanostructured materials for energy-related applications requires the dissemination of new and exciting research, and we therefore welcome contributions from many different fields. Topics of interest include, but are not limited to the following:

- Synthesis
- Batteries
- Supercapacitors
- Fuel Cells
- Electrocatalysis
- Water harvesting
- Electrodeposition
- New Materials
- Processing

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Message from the Editor-in-Chief

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