Special Issue

Nanostructured Materials for Energy Applications

Message from the Guest Editors

Novel nanostructured materials are the centerpiece for emerging technologies. The synthesis and processing of nanostructured materials play a key role in the adoption of 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. Applications in energy storage and conversion rely heavily on the discovery of novel materials. By exploiting materials at the nanoscale, tremendous advancements have been made that have assisted in the growth of many industries (e.g., semiconductor, vehicle electrification, photonics, etc.).
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.

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Deadline for manuscript submissions

closed (31 December 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/83298

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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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