

Special Issue

Electrochemical Synthesis of Nanostructured Semiconductors

Message from the Guest Editor

Nanostructured semiconductors have been extensively investigated for years owing to their promising properties compared to their bulk counterparts. Among various methods, Electrochemical methods are especially attractive due to their simplicity, cost-effectiveness, and versatility. Moreover, it is also possible to tailor the morphology, composition, and properties of electrochemically deposited semiconducting materials by the careful adjustment of the process parameters, especially the potential/current conditions, temperature, duration of the process, as well as composition, viscosity, pH of the electrolyte, and many others.

Both regular research papers are welcome. The topics are not limited to:

- The development of new electrochemical methods that can be employed for the formation of nanostructured semiconductors;
- The modification and functionalization of electrochemically synthesized nanostructured semiconductors;
- Detailed characterization of electrochemically formed nanostructured semiconductors;
- Applications of nanostructured semiconductors in various fields, including photoelectrochemistry, photocatalysis, photovoltaics, and others.

Guest Editor

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Deadline for manuscript submissions

closed (10 September 2023)



Materials

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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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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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