Special Issue

Frontiers in Synthesis of Zinc Oxides: Experimental and Theoretical Approach

Message from the Guest Editor

Zinc oxide has attracted worldwide research interest due to its low cost and toxicity, biocompatibility, and high efficiency in the heterogeneous photocatalytic reaction of organic contaminants. For highly technical, biomedical or photocatalytic applications, developing a size- and morphology-controlled ZnO synthesis route is of utmost importance due to the fact that the multifunctional behavior of ZnO particles is related to their size and morphology. The Special Issue will provide readers with recent progress in the field of ZnO investigations, along with detailed microstructural, optical, and photocatalytic measurements, using an integrated experimental–theoretical approach. I particularly encourage contributions on the combination of experimental and theoretical studies in order to get a deeper insight into the growth mechanism and photocatalytic behavior of ZnO nano- and microstructures and achieve a good control of their size and morphology.

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

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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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