Special Issue

Emerging Trends and Innovations in Engineered Nanomaterials

Message from the Guest Editor

The field of nanomaterials continues to redefine scientific and technology, bridging gaps between disciplines and enabling transformative innovations across diverse sectors. Engineered Nanomaterials (ENMs), with their precisely tuned properties at the nanoscale, represent a significant innovation in this field. These materials, encompassing carbon-based nanostructures, metal nanoparticles, polymeric systems, nanocomposites, quantum dots, and two-dimensional materials, are heralding a new era in healthcare, energy, environmental sustainability, and advanced manufacturing.

This Special Issue of Materials (MDPI) will highlight the latest advancements and emerging trends in ENMs. It aims to provide a comprehensive overview of how these materials address critical challenges in contemporary science and engineering, while offering new opportunities for future applications. We therefore welcome the submission of innovative research on the synthesis, characterization, functionalization, and application of ENMs, alongside insightful reviews that contextualize their role in the advancement of interdisciplinary domains.

Guest Editor

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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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