Special Issue

Developments and Applications of Nanotechnologies in Surface/Interface, Catalysis and Fuel Cells

Message from the Guest Editor

Nanotechnologies have significantly impacted surface/interface science, catalysis, and fuel cell technology. In surface/interface science, nanotechnologies allow for the precise control and manipulation of surface properties at the nanoscale, leading to the development of materials with enhanced surface area, reactivity, and properties. This has implications for coatings, sensors, and biocompatible materials.

In catalysis, nanotechnologies enable the design and synthesis of catalysts with high surface area, controlled morphology, and improved catalytic activity. In fuel cell technology, nanotechnologies are being used to develop new materials for fuel cell electrodes and electrolytes and improve fuel cells' performance and efficiency. Nanomaterials, such as platinum nanoparticles for catalysts and graphene-based materials for electrodes, have shown promise in enhancing fuel cells' power output and durability.

Overall, nanotechnologies play a critical role in lots of fields. The Special Issues aims to collect the latest research, offering new opportunities for innovative solutions in energy conversion and environmental sustainability.

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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