Special Issue

Nanoarchitectonics: A New Paradigm for Materials Science with Nanotechnology

Message from the Guest Editors

To meet social demands in contemporary social communities, including the production of goods, environmental protection and remediation, energy creation and storage, integrated information conversion, and biological and biomedical treatments require both (i) synthesis of functional materials by organic chemistry, inorganic chemistry, materials science, and supramolecular chemistry and (ii) precise fabrications by micro- and nanotechnology. So far, these efforts have been made rather separately. In order to promote science and technology with the combined efforts of these scientific and technological fields, a new paradigm to assemble these interdisciplinary fields is necessary. This can be satisfied with an emerging research concept, nanoarchitectonics. The nanoarchitectonics concept couples nanotechnology with various research fields, including materials science, supramolecular chemistry, and bio-related sciences, to logically create functional materials from nanoscale units. For more information, please click the link: https://www.mdpi.com/journal/materials/special_issues/nanoarchitectonics

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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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