Special Issue

Structural, Electronic and Magnetic Properties of Low Dimensional Systems

Message from the Guest Editor

Low-dimensional material systems with at least one of their dimensions in the nanometer scale exhibit unusual fundamental physical properties that are interesting for novel designs and revolutionary (multi)functional devices. Notably, nanoscale devices are already featuring in several emerging technologies such as spintronics, nanophotonics, nanoplasmonic, magnonics, flexible and transparent electronics, quantum computing, and other advanced applications. This Special Issue is devoted to works on the structure, electronic and magnetic properties of low-dimensional systems including, both theoretical and experimental contributions, for fundamental and applicable advances based on knowledge of their physical properties. Fabrication and processing methods as well as characterization and performance evaluation of low-dimensional systems are encouraged topics. Numerical and computational approaches devoted to showing new challenges and providing insight into new means of the exploitation of low-dimensional systems of interest for academia and industry are also welcome.

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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