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## New Developments in Physics of Advanced Materials

Guest Editors:

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Deadline for manuscript  
submissions:

**closed (10 March 2023)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue is devoted to new developments in the physics of advanced materials and includes all types of materials (inorganic, organic, hybrid, bulk, low dimensional systems, thin films, layers, powders, nanocomposites), materials design, simulation models, preparation, characterization, and advanced applications (modern electronics, spintronics, photonics, energy and environment, sensors, medical applications).

The issue covers structural studies and studies on all type of phenomena observed at the interaction of advanced materials with electrical, magnetic, and electromagnetic fields, and controlled atmospheres and includes but is not limited to the following topics:

- Thin films and nanostructures for modern electronics;
- Laser–material interactions and processing;
- Materials for energy and environment;
- Magnetic materials, spintronics, and related devices;
- Nanostructures and low dimensional systems;
- Emerging electronic memory materials and devices;
- Polymer materials and composites;
- Functional materials and applications;
- New developments in sensing materials and sensor devices;
- Trends in condensed matter theory



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# Special Issue



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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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