

Special Issue

High-Performance Rare Earth Materials

Message from the Guest Editor

Topics of interest for publication include, but are not limited to:

- Synthesis and processing of rare-earth-based materials;
- Rare-earth oxides, ceramics, and inorganic compounds;
- High-entropy and compositionally complex rare-earth materials;
- Rare-earth magnetic materials and permanent magnets;
- Rare-earth materials for solid-state lighting and optoelectronics;
- Rare-earth materials for energy conversion and energy storage;
- Battery and supercapacitor materials containing rare-earth elements;
- Rare-earth materials for hydrogen production, storage, and utilization;
- Rare-earth nanomaterials, nanoparticles, and nanostructured systems;
- Thin films, coatings, and surface-engineered rare-earth materials;
- Mechanical, thermal, magnetic, and functional properties of rare-earth materials;
- Recycling, recovery, and circular-economy strategies for rare-earth elements;
- Emerging and multifunctional applications of rare-earth-based materials.

Guest Editor

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About the Journal

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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