Special Issue

Advances in Physical Properties of Quantum Materials

Message from the Guest Editor

Quantum materials are an emerging concept, integrating and providing a handful of new ideas in various research fields, and have been well documented as strongly correlated materials, superconductors, multiferroic materials, topological phase materials. Investigations have focused on the quantum interplay among the degrees of freedom of lattice, charge, spin, orbital and topology, and the physical effects emerging from these interactions, further extending to prospective applications based on their novel physical effects. It is thus highly desirable to design the material composition through doping, phase structures, and interface structures in heterostructures. This Special Issue hopes to construct a platform for collectively demonstrating novel results currently obtained in quantum materials, and so to stimulate new work in the future.

Guest Editor

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Deadline for manuscript submissions

closed (10 July 2025)

Materials

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Impact Factor 3.2
CiteScore 6.4
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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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