Special Issue

Neutron Scattering in Materials

Message from the Guest Editor

Neutron scattering techniques have emerged as powerful tools for probing the structure, dynamics, and properties of materials at the atomic and molecular levels. The aim of this Special Issue is to highlight recent advancements and innovations in neutron scattering research applied to material science. We invite contributions covering a broad spectrum of topics, including but not limited to, the following:

- Structural characterization of materials using neutron diffraction and reflectometry.
- Investigation of magnetic and electronic properties through neutron spectroscopy.
- Dynamics of materials under external stimuli (e.g., temperature, pressure, magnetic fields) studied via neutron scattering techniques.
- Neutron imaging and tomography for the visualization of internal structures and defects in materials.
- Neutron scattering studies of nanomaterials, polymers, biomaterials, and complex fluids.
- Applications of neutron scattering in energy materials, catalysis, and environmental science.
- Advances in instrumentation and data analysis methods for neutron scattering experiments.

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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