

Special Issue

Visualizing Electronic and Structural Properties of Materials Using X-ray and Electron Beam Technique

Message from the Guest Editors

For this Special Issue, we are inviting submissions that exploring advanced measurement and analysis methods by using x-rays and electrons to study structural and electronic properties. Improving source brightness puts equal demands on light sources, optics, detectors, data processing, storage, and data analysis and modeling. More specifically, this issue aims to cover areas such as the structural analysis of crystalline and non-crystalline orders, measurement of electronic structure and performance of energy level analysis, advanced light sources, as well as detector and data acquisition methods. Opportunities in time-resolved measurements, artificial intelligence for data analysis, and other novel approaches remain open. We invite submissions in all these areas, as well as reviews of relevant fields.

Guest Editors

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Deadline for manuscript submissions

closed (20 April 2024)



Materials

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Impact Factor 3.2
CiteScore 6.4
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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.

Editor-in-Chief

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