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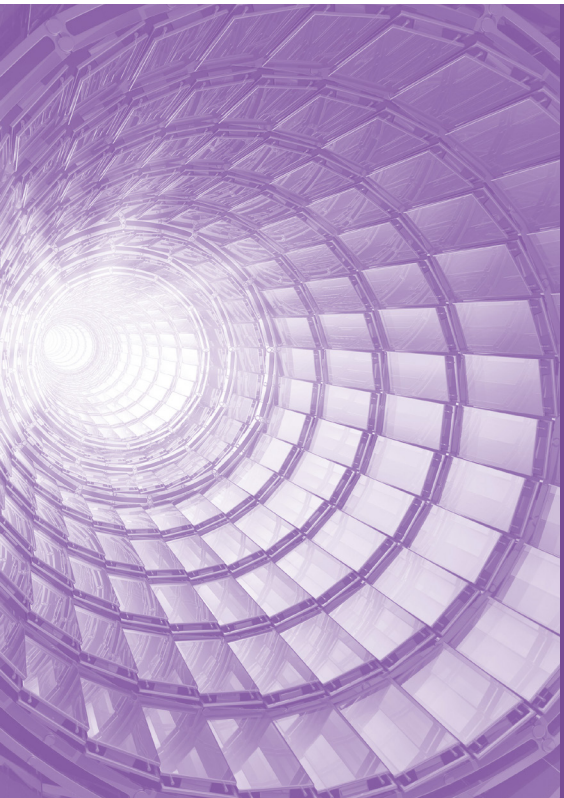
Quantum Beam Science



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Message from the Editor-in-Chief

Quantum Beam Science focuses on application of quantum beams for the study and characterization of materials in their widest sense, and developments of quantum beam sources, instrumentation and facilities. Quantum beams include synchrotron radiation, neutron beams, electrons, lasers, muons, positrons, ions. The journal covers disciplines including, solid state physics, chemistry, crystallography, materials science, biology, geology, earth- and planetary materials, and engineering. Articles presenting multiple quantum beams for complementary studies are welcome.

Editor-in-Chief
Prof. Dr. Klaus-Dieter Liss

Aims

Quantum Beam Science (ISSN 2412-382X) is an international, open access journal publishing reviews and original research focusing on the application of quantum beams for the study and characterization of materials in their widest sense, as well as developments of quantum beam sources, instrumentation and facilities. The journal publishes reviews, original research articles, and communications; there is no restriction on the maximum length of the papers.

Scope

- Quantum beams: synchrotron radiation, neutron scattering, free electron lasers, muons, positrons, electron scattering, high-strength lasers, protons, ions
- Applications: materials science, condensed matter, condensed matter, materials under extreme conditions, radiation damage, quantum states, Bose-Einstein condensates, low temperature, phonons, magnons, excitons, phase transformations, crystalline, charge and magnetic structure, protein crystallography, engineering applications (strain, stress, texture, fatigue), in-situ, real-time observations, bulk, surfaces, interfaces, atomic layers
- Instrumentation: facilities, sources, beamlines, sample environment, quantum beam optics, computing, combination of quantum beams, data analysis
- Fundamentals: quantum beam interactions, interferometry, fundamental optics, cross sections, scattering theories, complementarity of quantum beam

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A first decision is provided to authors approximately 26.8 days after submission; acceptance to publication is undertaken in 9.8 days (median values for papers published in this journal in the first half of 2025)

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