Special Issue

Advances in Accelerators and Spectrometers of Beam Physics

Message from the Guest Editor

This Special Issue focuses on recent advances in accelerators and spectrometers of beam physics, including both experimental and theoretical studies. Topics of interest include, but are not limited to:

- New accelerator and spectrometer designs and concepts;
- Techniques for beam manipulation and measurement, such as beam steering and focusing, beam profile and emittance measurement, and energy measurement;
- Advances in high-power and high-intensity particle beams;
- Beam instrumentation, such as detectors and beam monitors;
- Applications of accelerators and spectrometers in nuclear and particle physics, materials science, medical physics, and other fields.

Submissions may include original research articles, review articles, and short communications. All manuscripts will be subject to a rigorous peer-review process to ensure the highest quality of contributions to the Special Issue.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2023)

Quantum Beam Science

an Open Access Journal by MDPI

Impact Factor 1.7
CiteScore 2.8

mdpi.com/si/171828

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About the Journal

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.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 31.8 days after submission; acceptance to publication is undertaken in 6.7 days (median values for papers published in this journal in the second half of 2025).