Special Issue

Asia-Oceania Neutron and Advanced Photon Source for Industrial Applications

Message from the Guest Editors

The applications for neutron and advanced photon source for our society are evidenced by the many successful industrial liaison programs of neutron and synchrotron facilities. The neutron/synchrotron X-ray measurements, coupled with complimentary experiments, offer important benchmark events for modeling and simulation work in order to characterize specific patterns. The Asia-Oceania Conference for Neutron Scattering (AOCNS) will address these aspects in the context of the needs and developments, focusing on important factors that contribute to processing, microstructure, properties, performance, and prediction. Prospective topics include (and are not limited to) fundamental developments and design considerations related to the following: (1) additive manufacturing for metals, (2) public safety case studies, (3) high entropy alloys, (4) lightweight alloys, (5) steels, (6) energy, and (7) other applications. This Special Issue of Quantum Beam Science is for experts and users getting together and/or stimulated by these topics to share new ideas and the latest achievements. We welcome both experienced and new users to share their original research and case studies.

Guest Editors

Prof. Dr. Klaus-Dieter Liss

Prof. Dr. E-Wen Huang

Prof. Dr. Ko-Wei Lin

Dr. Stefanus Harjo

Deadline for manuscript submissions

closed (30 November 2020)

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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.

Editor-in-Chief

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Author Benefits

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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).