





an Open Access Journal by MDPI

Photon Diagnostics

Guest Editor:

Dr. Pavle N. Juranić

Paul Scherrer Institut, Villigen, Switzerland

Deadline for manuscript submissions:

closed (31 May 2021)

Message from the Guest Editor

Photon diagnostics is a field that bridges the gap between the machines (like particle accelerators) used to generate photon beams and the experimenters using light for research. The devices and methods employed in photon diagnostics serve two purposes: firstly, they provide information to the machine operators to improve and monitor the performance of their setups; secondly, they provide information to the experimenters about the properties of the photons they use in the experiments for better data analysis and easier setups and are often an integral part in the data-taking process. The field of photon diagnostics is large and growing. Efforts are being made to attain both non-intrusive measurements for online, realtime feedback and better intrusive measurements for improved setups of machines or experiments. The most commonly measured beam properties are spectra, energy, position, arrival time of photons for pump-probe experiments, photon pulse lengths, and transverse profiles. The field also uses the devices to set up new methods for the improvement of operations or experimental datataking based on machine learning and algorithm development.











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Klaus-Dieter Liss

School of Mechanical, Materials, Mechatronic and Biomedical Engineering, University of Wollongong, Wollongong 2522, Australia

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (Nuclear and High Energy Physics)

Contact Us