Special Issue

Laser-Assisted Facilities

Message from the Guest Editor

The use of laser–matter interaction is attracting increasing interest in fields of application ranging from plasma physics to the production of secondary radiation. In particular, laser-driven secondary radiation, such as X-rays, neutrons, electrons, and ions, has applications that range from radiation physics to innovative and more efficient cancer treatment techniques. Hence, lasers could complement particle accelerators. Several facilities have been developed, or are under development, that aim to provide users with innovative acceleration technologies for multidisciplinary research. This Special Issue aims to present the state of the art in laser-driven irradiation facilities and future developments in this field, with emphasis on the foreseen applications and possibilities for users. We welcome contributions that focus on presenting established or underdevelopment laser facilities.

Guest Editor

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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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