



Emerging Topics in High-Power Laser and Light–Matter Interactions

Guest Editors:

Dr. Zhaohong Liu

Dr. Jiawei Sun

Dr. Sensen Li

Deadline for manuscript
submissions:

closed (30 June 2024)

Message from the Guest Editors

The aim of this Special Issue is to provide a platform for researchers to demonstrate their latest research on high-power laser and light–matter interaction techniques, with a focus on high-power lasers, advanced imaging techniques, fiber-optics, adaptive optics, and computational laser systems. The scope of this Special Issue covers the latest advances in the experimental, theoretical, and computational aspects of light propagation in media and its applications in optical imaging. Topics of interest include, but are not limited to, the following:

- High-power laser technology and applications;
- Optical neural networks and machine learning in optics;
- Fiber-optic sensing and communication;
- Adaptive optics and wavefront shaping;
- Short pulse laser generation via non-linear optics;
- Brillouin scattering and its applications;
- Solid-state laser systems and their applications;
- Spectral imaging and its applications;
- Quantum imaging and quantum optics.

We look forward to receiving your contributions.

