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New Trends in Laser Physics Technology

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closed (30 October 2023)

Message from the Guest Editor

Laser physics and laser technologies are so intimately linked together that advancements in each of these fields are always reflected in the other. This Special Issue invites manuscripts on the recent advances in laser physics technologies. All conceptual, theoretical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Trends in the physics and technology of new laser development, as well as novel concepts;

- New approaches to the generation of various output wavelengths;

- The methods of implementation of new laser generation properties and the influence of technological novelties;

- Methods of extending the range and speed of output wavelength tuning, including their combination with measuring other radiation parameters;

- The technological possibilities of and limitations to achieving relatively high, record-setting, or special radiation parameters;

- Physical and technical problems in the transitioning of laboratory solutions;

- The effect of progress in allied technologies (nanotechnologies, artificial intelligence and information technologies, etc.) on the development of laser physics technologies.