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Advanced Lasers and Their Applications II

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Message from the Guest Editors

Advanced lasers have revolutionized various fields, ranging from telecommunications to medical surgery, offering unparalleled precision, power, and versatility. These sophisticated devices generate intense beams of coherent light through stimulated emission, where atoms or molecules release photons in synchronization.

One of the key advancements in laser technology is the development of various types of lasers tailored to specific applications. For instance, solid-state lasers, such as Nd:YAG or Ti:sapphire lasers, offer high energy and precise wavelength control, making them ideal for scientific research and medical procedures. Semiconductor lasers, commonly found in DVD players and laser pointers, boast compactness and efficiency, driving innovations in telecommunications and data storage.

We are inviting both research articles and review papers that are related to this fascinating topic. Further information can be found on the Special Issue website. Research areas may include (but are not limited to) the following:

- Fiber lasers;
- All-solid-state lasers;
- Semiconductor lasers;
- Micro/nano-structure fabrication;
- Optical sensors.