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Laser Amplifiers

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Message from the Guest Editors

In this Special Issue on Laser Amplifiers, we assemble contributions covering the most recent exciting developments in laser amplifiers. Diverse scientific fields and a broad spectrum of applications benefit greatly from novel and high-performance amplifiers in terms of their outstanding properties addressing wavelength ranges, spectral coverage and purity, average power, peak power, pulse energy, time duration, and many more. The assembled contributions are not exhaustive in the coverage of the field, but we consider them as important and noteworthy in taking the pulse of current developments and prospects for future work. Technical topics include but not limited to the following:

- Laser amplifiers – scientific foundations
- EUV-UV light generation and amplification using lasers
- Short pulse (fs) laser amplifiers
- High energy pulsed laser amplifiers – solid state
- High energy pulsed laser amplifiers – fiber
- High energy pulsed laser amplifiers – gas
- Single frequency highly coherent laser amplifiers
- Parametric fiber amplifiers
- KW-class laser amplifiers
- Mid-IR light generation and amplification by laser