

Recent Advances in Optical Parametric Amplifiers

Guest Editor:

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Deadline for manuscript
submissions:

closed (20 October 2024)

Message from the Guest Editor

Laser Optical Parametric Amplifiers (OPAs) have since the 60s made it possible to circumvent laser gain media properties to provide otherwise inaccessible parameters. OPAs has been a vital technique to overcome the limited amount of suitable lasing media versus the many requirements that exist for state-of-the art facilities and their applications, and has seen strong adoption by the laser industry as a robust tool that can provide unique properties.

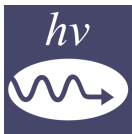
This special issue invites manuscripts that introduce the recent advances in “optical parametric laser technology”. All theoretical, numerical, and experimental papers are accepted. Topics include, but are not limited to, the following:

- Ultra-broadband/few-cycle laser amplification;
- High average-power laser technology;
- Advances in nonlinear media: large apertures, QPM designs and progresses;
- Tunable OPA design and integration in laser systems;
- Synchronized multiple sources;
- PW level OPCPA based lasers;
- OPAs operating in the Mid-IR, deep mid-IR or in the vis-UV spectral range;
- State-of-the-art commercial systems;
- Optical Parametric Oscillators (OPOs).



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Special Issue



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Message from the Editor-in-Chief

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