

# CALL FOR PAPERS

## *Microwave and Optical Technology Letters*

### *SPECIAL ISSUE ON*

### *HIGH POWER LASER AND RELATED TECHNOLOGY*

The laser is called "the fastest knife", "the most accurate ruler", "the brightest light", which is one of the 20th century Four Great Inventions. Among them, high-power lasers and related technologies have been paid attention to by many countries because of their special value in medical, industrial, and national defense fields. There are many kinds of high-power lasers, including CO<sub>2</sub> laser, HF/DF chemical laser, Chemical oxygen-iodine laser, fiber laser, all-solid-state laser, diode-pumped Alkali vapor laser, etc.

The improvement of high-power lasers and related technologies is the basis for future development and effective application. However, they are still facing many difficulties. HF/DF chemical laser and Chemical oxygen-iodine laser are oversized with high maintenance costs. The output power of the fiber laser can not exceed the upper limit due to the influence of end-face damage, nonlinear effect, and material damage threshold; moreover, the output power of the all-solid-state laser is severely affected by the thermal effect limiting the efficiency and beam quality. This special issue aims to promote outstanding research in various aspects of laser devices and related technologies, focusing on the latest progress, development, and new trends. Potential topics include but are not limited to:

- High Power Gas Laser
- High Power Chemical Laser
- High Power Fiber Laser
- High Power All-Solid State Laser
- Diode-Pumped Alkali Vapor Laser
- High Brightness Laser
- High Power Laser Frequency Conversion Technology
- High Power Laser Cooling Technology
- High Power Laser Measurement Technology

This special issue will appear in **December 2021**. Manuscripts should conform to the requirements for regular papers in the journal. Authors wishing to have their contributions considered by this issue should submit their manuscripts in pdf format before **July 31, 2021**, at [wiley.atyponrex.com/journal/MOP](http://wiley.atyponrex.com/journal/MOP)

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