Dear Colleague,

The mid-infrared to THz spectral range has become a region of increasing interest due to the recent advancements of laser technologies and a wide variety of scientific and technological applications. Numerous molecules, crystals and biological materials have strong rotational and vibrational resonances in this wavelength range, offering new opportunities for sensing, spectroscopy and imaging applications in science research, industry, environment, biomedicine, food safety, astronomy, and more.

This topical issue is dedicated to covering the development of novel mid-infrared and THz lasers ranging from the continuous-wave to the ultrafast femtosecond domain, as well as their applications in science and technology. Topics of interest include, but are not limited to:

- Quantum and interband cascade lasers
- Optical parametric oscillators and amplifiers
- Solid-state and fiber lasers
- Supercontinuum, difference frequency, and frequency comb generation
- Mid-infrared/THz laser spectroscopy, sensing, and imaging
- Mid-infrared/THz laser diagnostics in harsh environment
- Mid-infrared/THz laser metrology

We cordially invite you to contribute to this topical issue, by submitting your manuscript containing new, high quality, and unpublished material before

**January 31, 2018**

Both reviews and original research articles will be published. All manuscripts will be subject to a standard review procedure with respect to their degree of novelty, relevance, and quality of presentation. Immediate and speedy reviewing is supported by online submission at [https://www.editorialmanager.com/aphb/](https://www.editorialmanager.com/aphb/).

Manuscripts will be published within 2 weeks after acceptance.

Looking forward to receiving your contribution.

Sincerely,

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Guest Editors: Wei Ren, Paolo De Natale, Gerard Wysocki, May 2017

**Topical Issue**

“**Mid-infrared and THz laser sources and applications**”

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