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Photonic Jet: Science and Application

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Deadline for manuscript submissions:

closed (31 August 2021)

Message from the Guest Editors

Dear Colleagues,

Photonic jet is a subwavelength focusing effect arising from electromagnetic waves interaction with low-loss dielectric objects, including micro and nano spheres, fiber, cubes and even biological cells and spider silks.

This special issue focuses on the recent advances on photonic jet developments, including both science and applications. Topics will include, but are not limited to:

- Label-free microscopy and imaging by photonic jet
- Sensing, trapping, manipulation and other applications of photonic jet
- Enhanced Raman scattering and photoluminescence by photonic jet
- High-index dielectric photonic jet lens
- Solid Immersion photonic jet lens
- Resonant and super-oscillation effects in photonic iet
- Metamaterial photonic jet
- Nonlinear photonic jet
- Integrated photonic jet devices
- Acoustic and Terahertz jet
- Photonic hook (curved photonic jet)

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