

# Special Issue

## Phased Fiber Laser Array and Its Applications

### Message from the Guest Editors

Phased Fiber Laser Array (PFLA) is a kind of typical distributed-apertures optical system. By flexibly manipulating the piston and tip/tilt phases of the tiled sub-beams, the PFLA has been gifted the ability of adaptive optical (AO) correction, which holds great potential for applications in laser propagation in atmosphere, free space optical communications (FSOC), optical scanning, and so on. This Special Issue aims to highlight recent advances in principles, system structures, devices, control strategies, coherent combining techniques, and applications of the PFLA. We will consider theoretical, numerical, and experimental papers that cover, but are not limited to, these topics:

- Coherent combining techniques based on PFLA;
- Wavefront manipulation and AO aberration correction based on PFLA;
- Advances in PFLA's structures, fiber devices, phase compensators, detectors, and other components;
- Advances in PFLA's control algorithms, control frameworks, and controller design;
- Progresses in PFLA's novel applications such as laser propagation in atmosphere, FSOC, and electronically controlled optical scanning.

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### Guest Editors

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### Deadline for manuscript submissions

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