Special Issue

Emerging Trends in Optical Phased Arrays

Message from the Guest Editors

In recent years, optical phased arrays (OPAs) on a nanophotonic chip have garnered widespread attention due to their increasing applications in beam steering, spatial phase modulation, and beam shaping area such as light detection and ranging (LiDAR), 3D imaging, optical wireless communications (OWC), beam shaping, projection and 3D holographical displays, etc. Chip-scale OPAs based on silicon photonics are fabricated using CMOS-compatible processes, which can be compact, robust, and inexpensive. Emerging trends in integrated OPA include nanophotonic antenna design, new ideas for phase shifter, uniform/non-uniform arrays, on-chip manipulation of optical waves, and so on.

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