



Applications of Semiconductor Optical Amplifiers

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Message from the Guest Editor

Dear Colleagues,

The technology of semiconductor optical amplifiers (SOAs) is a key enabler for the development, implementation, optimization, and overall establishment of photonic circuits, subsystems, and networks. Thanks to the remarkable advancements that have been achieved in the field, SOAs exhibit several important properties, such as strong nonlinearities, low power consumption, wavelength flexibility, large dynamic range, fast response, broadband and versatile operation, small footprint with potential for integration in single chips and affordable cost. These attractive characteristics have rendered SOAs core elements for the accomplishment of critical tasks in fundamental and system-oriented level. Thus, SOAs have been widely adopted as the principal technological platform for realizing diverse applications with high performance.

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