Special Issue

Advances in Quantum Optoelectronics

Message from the Guest Editor

The burgeoning field at the intersection of structured light–matter interactions and optoelectronics has garnered tremendous attention from the perspective of quantum optics in recent years. This Special Issue aims to capture cutting-edge research in the area of quantum optoelectronics. Recent advances in quantum control of the flow of light have led to the discovery of novel light-integrated sources, detectors, and modulators that offer improved performance over traditional devices with applications to consumer electronics, telecommunications, remote sensing, biomedical, space, and defense industries. Thus, this Special Issue, "Advances in Quantum Optoelectronics", presents an avenue for the next generation of design, devices, and integrated systems that cater to the growing opportunities of the quantum era with an emphasis on from single- to multi-photon devices (sources and detectors), structured linear and nonlinear light–matter interactions (metasurfaces, complex media, strong coupling, and structured light), quantum information science, and reconfigurable optoelectronics.

Guest Editor

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