Special Issue

Advances in Optical Microcavities

Message from the Guest Editors

Nowadays, advances in optical microcavities (MCs) are manifested in both fundamental and applied research, due to their high-quality factors and small mode volumes, which enable light–matter interactions to be significantly enhanced. Among the various recent developments in MCs, nonlinear photonics, quantum cavity electrodynamics, cavity optomechanics and microlasers stand out. However, MCs can be configured for a wide variety of chemical or biomolecular sensing applications. In addition, MCs can enhance light absorption in organic solar cells and significantly improve device performance. Moreover, the resonance effects of confined light in MCs can be used to increase the radiation pressure force of electromagnetic-wave-driven micromotors. We are inviting researchers to contribute their latest research advances in microcavities and related phenomena, including newly emerging material systems with unique optical features, such as detallo-dielectric crystals, hybrid materials, high-index semiconducting materials, graphene membrane, etc.

Guest Editors

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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