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Optical Metasurfaces: Recent Advances and Future Directions

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Message from the Guest Editors

Dear Colleagues,

The current progress in tunable optical metasurfaces consists of metasurfaces based on active materials and metasurfaces based on nano-mechanical structural reconfiguration. Recent years have witnessed a growing research interest in the study of liquid crystals (LCs), phase-change, flexible materials, and microelectromechanical systems (MEMS). This Special Issue is expected to boost the development of new directions in the field of active materials and nano-mechanical structural reconfiguration to foreseen ground-breaking discoveries and provide novel avenues for important applications. The elements of tunable metasurfaces are spread across disciplines, and many of the recent ideas are based on the concepts of active materials and nano-mechanical structural reconfiguration.

We expect that papers of this Special Issue will explore the innovation of materials, fabrication technology, and design and optimization methods, in order to provide an interdisciplinary platform for novel photonics applications.