Special Issue

Quasi-Continuous Metasurfaces for High-Performance Functional Electromagnetic Wave Devices

Message from the Guest Editor

Metasurfaces are promising building blocks for functional materials and devices. However, traditional discrete designs often suffer from low efficiency and narrow bandwidth. Recently, quasi-continuous metasurfaces have been constructed with basic shapes such as arcs, trapezoids, and catenaries. Superior performances including higher efficiency and broader bandwidth have been reported. In addition, free-form quasi-continuous metasurfaces have attracted increasing attention, because they could exploit more degrees of freedom to optimize the metasurfaces. In this Special Issue, the developing trends of quasi-continuous metasurfaces are highlighted. It would be a showcase of the diverse applications of quasi-continuous metasurfaces in both the optical and microwave regime, including but not limited to beam deflectors, flat lenses, wavefront modulators, perfect absorbers, antennas, etc. It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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