

Special Issue

Superconducting and Quantum Metamaterials, Metacircuits, and Metadevices

Message from the Guest Editor

The aim of this Special Issue is to highlight recent developments and advances in the theory, design, modeling, fabrication, characterization/experiment, and application of superconducting and quantum metamaterials, metacircuits, and metadevices operating at DC, RFs, microwaves, millimetre-waves, terahertz, and optics that address multiple aspects of challenges in:

- cavity Josephson plasmonics;
- plasmonic superconducting metadevices and metacircuits;
- superconducting quantum/Josephson metamaterials;
- low-loss superconducting–semiconducting/graphene/insulator hybrid metamaterials;
- superconducting hyperbolic metamaterials; or
- waveguide quantum electrodynamics.

Keywords:

- superconducting plasmonic metamaterials;
- Josephson plasmonics;
- Josephson junctions;
- quantum circuits and electrodynamics;
- quantum metamaterials;
- hybrid superconducting–semiconducting/graphene/insulator metamaterials;
- cavity and waveguide quantum electrodynamics.

Guest Editor

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Message from the Editorial Board

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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