



Metamaterials and Metasurfaces for Microwave and THz Applications

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Deadline for manuscript
submissions:

closed (31 August 2023)

Message from the Guest Editors

With the rapid development of devices working at microwave and THz ranges, metamaterials and metasurfaces have attracted increasing attention. For instance, in wireless systems (such as communication, sensing, and wireless power transfer applications), metamaterials play an essential role in antenna design, where sub-wavelength unit cells are combined with standard antenna topologies to enhance their performance in terms of bandwidth, gain, polarization conversion, reconfigurability, and many other aspects.

Even in the aforementioned applications, devolvement is not restricted to antenna design but includes other system perspectives. Although early research on metamaterials was largely oriented towards systems in the microwave and optical regions, recently it has been extended to millimeter-wave and THz frequencies as candidates for fulfilling the THz gap where efficient modulators, switches, and other components can be designed.

This Special Issue is dedicated to recent advances in the development of systems based on metamaterials in the microwave and THz ranges.





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Message from the Editor-in-Chief

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