

Special Issue

Microwave Antennas and Metasurface Antenna: From Fundamental Research to Applications

Message from the Guest Editor

Research on metamaterials and metasurfaces has exploded over the past two decades and has opened up new opportunities for antenna design. The metasurface comprises an array of unit cells that are much smaller than the wavelength, so the properties of a customized electromagnetic surface can be obtained. Recently, research on antennas related to metasurfaces has focused on active metasurface research such as real-time reconfiguration according to environmental changes, metasurface research with a large-scale electrically large nonlinear response, optimization of metasurface antenna design using artificial intelligence algorithms such as deep learning, and the application of 5G/6G communication using IRS (Intelligent Reflecting Surface) using metasurfaces. In this Special Issue, we would like to present research papers, short communications and review articles focusing on various studies on the improvements in the performance of antennas using metasurfaces and their use in related fields.

Guest Editor

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