



Advances in Electromagnetic Metamaterials: Physics, Devices and Applications

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Message from the Guest Editor

Electromagnetic (EM) metamaterial is a man-made material deliberately engineered to exhibit some electromagnetic properties that are difficult or impossible to find in natural materials. The novel properties of negative/zero index of refraction, sub-wavelength super lenses, electromagnetic invisibility cloaks, omnidirectional hyperreflective multilayer film, enhanced nonlinearity, etc., exhibit impressive applications that extend beyond those of conventional materials. The application techniques of EM metamaterials on optical filters, remote aerospace, medical devices, sensor detection, smart solar power collectors, radomes, optical communication and lenses, high-gain antennas, etc., are attracting increasing interest. The innovative concepts of metamaterials will lead to new phenomena and practical devices, which will be an important direction of future developments.

Research on electromagnetic metamaterial involves many different fields, such as electrical engineering, electromagnetics, optical engineering, solid state physics, microwave and antenna engineering, optoelectronics, material sciences, nanoscience, and semiconductor engineering.





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Message from the Editor-in-Chief

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