Special Issue

Applications of High-Performance Materials for Microwave and Terahertz Absorption

Message from the Guest Editor

High-performance materials, such as magnetic materials, carbon-based materials, flexible/stretchable materials, biomaterials, tunable materials, and metamaterials can be used to design near-perfect absorbers with subwavelength thickness and broadband absorption. Graphene is a suitable alternative for expensive metals used in modern absorbers, such as gold and silver, thanks to its reconfigurability and its higher wave absorption rate. Another approach for maximizing absorption is the combination of graphene and metallic metamaterials. This Special Issue aims to present cutting-edge progress in the application of high-performance materials for microwave and terahertz absorption. The scope covers all aspects of theoretical and experimental research towards the development of highly efficient electromagnetic wave absorbing materials and devices. It is our pleasure to invite you to submit review articles, regular research papers and short communications for this Special Issue: "Applications of High-Performance Materials for Microwave and Terahertz Absorption".

Guest Editor

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Message from the Editor-in-Chief

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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