Special Issue

Electromagnetic Absorbing Materials

Message from the Guest Editors

Electromagnetic absorbent materials, in particular microwave attenuating materials (MAMs), have been the subject of many studies in recent years. This fact is due to the proliferation of electronic devices working in the GHz range, both for mobile communications and the control of devices in the field of medicine, transport or military purposes. The origin of the attenuation should be sought both in dielectric and magnetic losses as well as in the combination of both. It is worth pointing out that, not only the strong absorption performance, but also lightweight should be considered for MAMs' practical application. The challenge of these investigations is to obtain maximum attenuation with materials as light in weight as possible. There are interesting studies carried out with micro- and magnetic nanomaterials embedded in dielectric matrices. In some cases, very good results are obtained by combining these materials with carbon nanotubes or graphene derivatives. This Special Issue will focus on the latest developments, research findings, and applications of electromagnetic absorbent materials. Both reviews and original research papers will be considered.

Guest Editors

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Deadline for manuscript submissions

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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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