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Electromagnetic Absorbing Materials

Guest Editors:

Prof. Dr. Pilar Marín

Prof. Dr. Elena Navarro

Dr. Jesús López

Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

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.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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materials@mdpi.com
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