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Functional Electromagnetic Materials

Guest Editors:

Prof. Dr. Xiaosi Qi

Prof. Dr. Guanglei Wu

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Deadline for manuscript
submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Nowadays, electronic information technology is playing a prominent role in stealth fighters, electromagnetic countermeasures, wireless communications and electromagnetic pollution protection. Therefore, the design of high-performance electromagnetic wave absorbing and shielding materials that can be widely used in the microwave frequency band has become a key issue.

In order to provide the readers with the latest progress in the developments and applications of electromagnetic wave interference shielding (EMI) and absorbing (EMA) materials. This Special Issue will collect the papers reporting the current status of electromagnetic functional materials, including but not limited to the following:

- Original research articles related to the design and preparation of high-performance EMI and EMA materials.
- EMI and EMA materials based on advanced manufacturing methods.
- Novel mechanism on EMI and EMA materials.
- In-depth analysis of electromagnetic loss mechanism on EMI and EMA materials.
- Review articles on the latest research progress of EMI and EMA materials.



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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