Special Issue

Nanomaterials for Electromagnetic Wave Shielding and Microwave Absorption

Message from the Guest Editors

The development of modern technology also caused serious electromagnetic pollution that has had an impact on human health and precision equipment. It is essential to develop high-performance electromagnetic protection materials. Electromagnetic interference (EMI) shielding and microwave-absorbing materials play significant roles in the fields of electromagnetic compatibility. Nanomaterials have been widely explored in the field of EMI shielding and microwave absorption due to their excellent electromagnetic properties and large specific surfaces. Researchers have mainly designed the electromagnetic function macro-structure from two perspectives, such as component composition and structural design. The preparation of integrated materials concerning structure and function is fascinating. In addition, electromagnetic simulation is increasingly applied to effectively guide material design and mechanism exploration. For this reason, in this Special Issue, we invite contributions from leading groups in the field that take a balanced look at current developments in this discipline.

Guest Editors

Dr. Zhihui Zeng
School of Materials Science and Engineering, Shandong University, Jinan 250061, China

Dr. Na Wu
Department of Mechanical Engineering, Hong Kong Polytechnic University, Kowloon, Hong Kong 999077, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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