Special Issue

Nanomaterials for Electromagnetic Absorption and Shielding

Message from the Guest Editors

Electromagnetic waves are of critical concern due to their far-reaching impact, such as interference with electronic devices and environmental electromagnetic pollution, highlighting the general trend towards advancing electromagnetic absorption and shielding technologies. Nanomaterials have garnered substantial attention for their applications in electromagnetic shielding and absorption due to their unique properties and structures at the nanoscale. These materials exhibit remarkable capabilities in managing electromagnetic radiation by either absorbing, reflecting, or diffusing the waves. With the ability to manipulate electromagnetic fields in such a way. This Special Issue will focus on recent advances in nanostructure fine-tuning and structural engineering, particularly on novel fabrication strategies to realize controlled structures (size, shape, and morphology), and on developing various engineering designs to improve their electromagnetic absorption and shielding performance while revealing mechanisms for their performance enhancement.

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