# Special Issue

# Electromagnetic Wave Absorbing Properties and Structures of Composites

## Message from the Guest Editors

Carbon-based composites are a kind of electromagnetic wave (EMW) absorption materials that have been widely studied. The carbon components can be roughly divided into graphene, carbon fiber, carbon nanotubes, carbon black and other materials. Normally, a single carbon material tends to cause a "skin effect" due to its high electrical conductivity, which causes a large number of EMW to be reflected on the surface of the carbon material, resulting in negative EMW absorption properties. Based on this, surface modification treatment, compounding, structural design and other methods are often used to achieve impedance matching, thereby improving the EMW absorption performance of carbon materials. Carbon-based composites are considered as potential candidates for high-performance EMW absorption due to its synergistic loss mechanism and diverse composition and microstructural designs. The purpose of this Special Issue is to provide an international platform for academic exchange on the design, preparation, characterization and application of carbon-based composites, thus promoting the development of carbon-based composites in the field of high-performance EMW absorption.

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## Deadline for manuscript submissions

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