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Advances in Carbon-Based Microwave Absorbing Material

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Message from the Guest Editors

Dear Colleagues,

Microwave absorbing materials (MAMs), as the platform for energy conversion, have been receiving much attention. Among all kinds of MAMs, carbon materials always reside at the frontier of this field due to their unique advantages in diverse forms. However, pristine carbon materials cannot produce desirable microwave absorption performance, and thus numerous efforts have been devoted in order to endow them with both excellent impedance matching and powerful intrinsic loss capability. To date, some characteristic internal configurations have demonstrated their positive effects on microwave absorption of carbon materials. As compared with microstructure design, most studies focus on the rational construction of carbon-based composites. Although some significant achievements have been, a gap to their practical applications still remains.

This special issue aims at the latest development in carbon-based MAMs, including both high-performance carbon materials and carbon-based composites, welcomes contributions to materials synthesis, advanced characterization, excellent performance, and structure-activity relationship.

Guest Editor

Yunchen Du

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Message from the Editor-in-Chief

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