



**Showcasing research from Professor Zuowan Zhou's laboratory, School of Chemistry, Southwest Jiaotong University, Chengdu, China.**

**Construction and application of carbon aerogels in microwave absorption**

This review emphasizes recent developments in carbon-aerogel-based microwave absorbing materials (MAMs) constructed with some typical carbon nanomaterials, including graphene, carbon nanotubes and pyrolytic carbon. The fundamental concepts and modification strategies surrounding carbon aerogels for developing superior MAMs are elaborated. Furthermore, the prospects, shortcomings and challenges of carbon aerogels for application in microwave absorption fields are proposed, which may inform and appeal to scientists working in this field.

**As featured in:**



See Zuowan Zhou *et al.*,  
*Phys. Chem. Chem. Phys.*,  
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