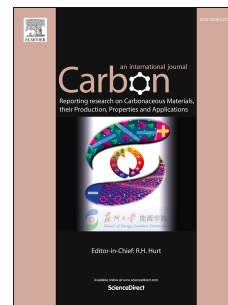


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Hollow graphite spheres embedded in porous amorphous carbon matrix as lightweight and low-frequency microwave absorbing material through modulating dielectric loss

Wei Liu, Shujuan Tan, Zhihong Yang, Guangbin Ji



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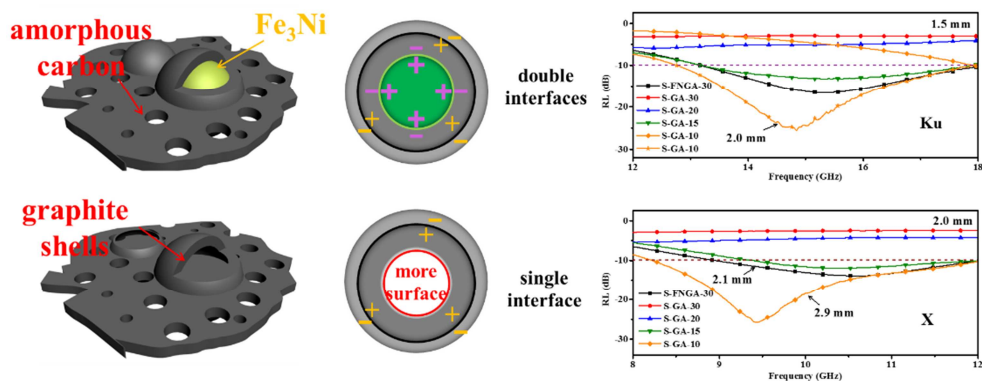
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Fe<sub>2</sub>Ni MIL-88 nanorod has been selected as precursor to fabricate Fe<sub>3</sub>Ni@graphite/amorphous carbon composites via thermal annealing and hollow graphite spheres/porous amorphous carbon material by subsequently chemical etching. Conduction loss, interfacial polarization loss and dipole polarization loss have been modulated by this route which leads to excellent reflection loss performance in both Ku and X band with low filling ratio.

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