

عنوان مقاله:

SYNTHESS AND MICROWAVE ABSORPTION PROPERTIES OF FLOWER LLKE BA(CO2)y IONIC LIQUID **NANOCOMPOSITES**

محل انتشار:

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خلاصه مقاله:

Radar absorbing materials (RAMs) are widely used in commercial and military applications. RAMs are made with compounds having a high loss energy, which enables them to absorb the incident radiation in synchronized frequencies and dissipate it as heat. Flower like Ba(CO3)2 are prepared by ionic liquid hydrothermal method. The carbonyl iron powder is prepared via thermal decomposition of iron pentacarbonyl. Then Ba(CO3)2 and ionic liquid composite with different mixture ratios was prepared using the as-prepared material. The structure, morphology, and properties of the composites are characterized using Fourier transform infrared spectroscopy (FTIR), X-ray diffraction, scanning electron microscopy (SEM), and a network analyzer. The effect of the mass ratio of Ba(CO3), Fionic liquid on the microwave loss properties of the composites is investigated. A possible microwave absorbing mechanism of Ba(CO3)2 fionic liquid composite has been proposed. The Ba(CO3)2 fionic liquid composite can find applications in .suppression of electromagnetic interference, and reduction of radar signature

کلمات کلیدی:

Radar absorbing materials; ionic liquid General Appearance

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