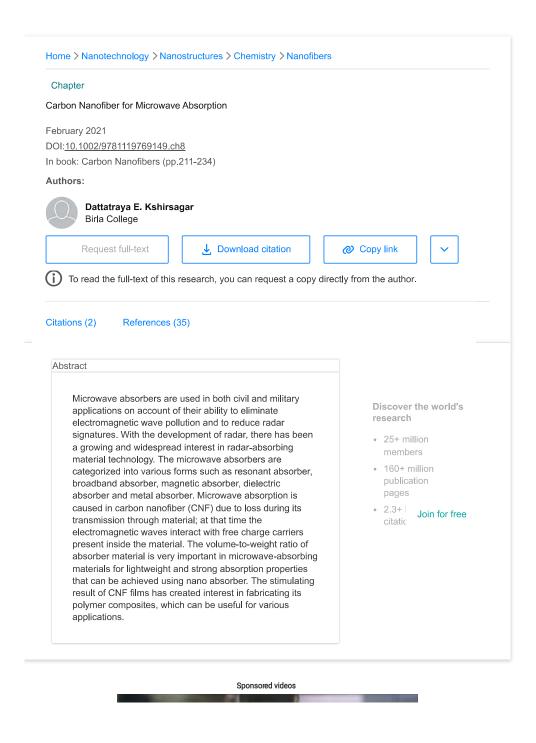
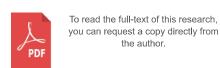
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... Exploring the relationship and interaction between substrate and CNTs greatly favors unraveling the underlying mechanism of their EM responding synergy. Moreover, considering that complying with gradual tapering of impedance (Kshirsagar, 2021), whether for micro-/nano-materials or flexible devices, is the golden principle of designing high-performance microwave absorber, so it actually goes against the rule to place CNTs with ultra-high impedance at the surface of composite. As a result, large dense electrically conductive network composed of CNTs formed upon the surface in these models severely retards the propagation of incident microwave into the inner medium, since such a tight and seamless structural layout of CNTs network will inevitably induce the intense shielding effect, which results in their limited MA performance. ...

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September 2016 · Materials Research Express

Pritom Jyoti Bora · Mayuri Porwal · K. J. Vinoy · [...] · Giridhar Madras

In this work, a promising, polyvinyl butryl (PVB)-MnO2 decorated Fe composite was synthesised and microwave absorption properties were studied for the most important frequency ranges i.e., X-band (8.2-12.4 GHz) and Ku-band (12.4-18 GHz). The microwave absorption of Fe nano cauliflower structure can be enhanced byMnO2 nanofiber coating. 10 wt% Fe-MnO2 nano cauliflower loaded PVB composite films ... [Show full abstract]

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