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A METHOD OF PRODUCING FUNCTIONALIZED GRAPHENE NANOFLUID



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MEGA-TREND

- **Chemicals and Materials**

TECHNOLOGY READINESS LEVEL (TRL)

- **TRL 4**

PATENT/ GRANTED NUMBER

- **PI 2018002520**

▶ TECHNOLOGY OVERVIEW

The present invention relates to a method of producing a functionalized graphene nanofluid comprising the steps of preparing exfoliated graphene oxide by treating graphite with acid in the presence of potassium permanganate ;reacting the exfoliated graphene oxide by treating graphite with acid in the presence of potassium permanganate; reacting the exfoliated graphene oxide with saffron in a reaction medium comprising ammonium solution to obtain functionalized graphene; ultrasonicated the functionalized graphene; and dispersing the ultrasonicated functionalized

graphene in distilled water to produce the functionalized graphene nanofluid.

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