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(54) Title: REDUCED GRAPHENE OXIDE-BASED-COMPOSITES FOR THE PURIFICATION OF WATER

(57) Abstract: A nanocomposite is disclosed comprising reduced graphene oxide (RGO) and at least one of a metal and an oxide of the metal. Also disclosed is an adsorbent comprising the nanocomposite and an adsorbent comprising the nanocomposite bound to silica by using chitosan. A filtering device comprising the nanocomposite and/or the adsorbent is also disclosed. Also disclosed are methods for producing the nanocomposites, adsorbents, and filtering devices described herein.



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