



ISTITUTO ITALIANO  
DI TECNOLOGIA

## TITLE

Method for the preparation of polyaniline/reduced graphene oxide composites

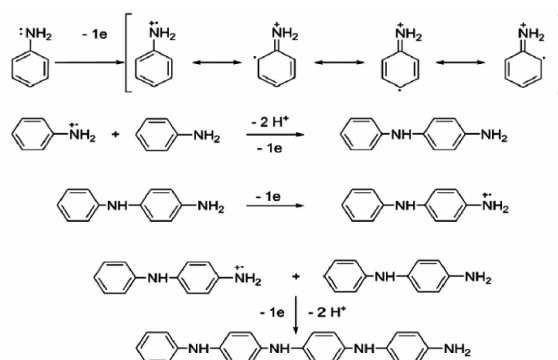
## INVENTORS

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## DESCRIPTION

The invention relates to a method for the preparation of polyaniline/reduced graphene oxide composites comprising the steps of:

- dispersing the graphene oxide in an acid aqueous solution containing an anionic emulsifying agent to obtain a graphene oxide dispersion;
- dissolving one or more oligomers of the aniline, optionally substituted, in an organic solvent to obtain an oligomer solution;
- mixing said oligomer solution with said dispersion of graphene oxide to obtain a polyaniline/reduced graphene oxide composite.



## APPLICATIONS

Thermoelectric, electrochemical, electromagnetic, electromechanical, electro-rheological, chemical, membranes and sensors production, conductive inks.

## KEYWORDS

Nanocomposite material, conductive polymer, graphene oxide, reduced graphene oxide, polyaniline, dianiline, inkjet printing

## BIBLIOGRAPHIC DATA

Metodo Per La Preparazione Di Compositi Di Polianilina E Ossido Di Grafene Ridotto

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