

In this issue

Rodolfo Cruz-Silva, Morinobu Endo
and Mauricio Terrones

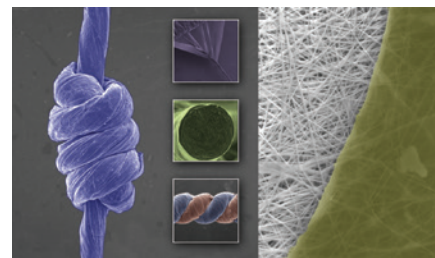
Graphene oxide films, fibers, and membranes

DOI 10.1515/ntrev-2015-0041

Nanotechnol Rev 2016; 5(4): 377–391

Review: Graphene oxide macroscopic films, fibers, and membranes have become important applications due to their specific properties and great potential as a new high-performance material.

Keywords: gas separation; graphene; nanocomposite; nanostructured materials; water purification.



Deepshikha Saini

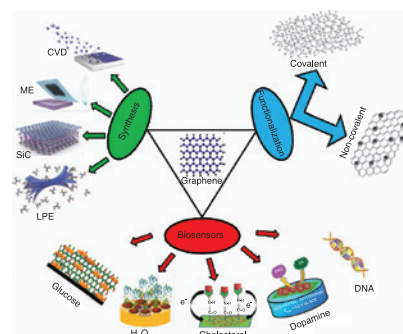
Synthesis and functionalization of graphene and application in electrochemical biosensing

DOI 10.1515/ntrev-2015-0059

Nanotechnol Rev 2016; 5(4): 393–416

Review: The present article reviews recent works dealing with synthesis, functionalization of graphene, and its applications related to biosensors.

Keywords: electrochemical biosensors; functionalization; graphene; synthesis.



Jaehyeung Park and Mingdi Yan
Three-dimensional graphene-TiO₂ hybrid nanomaterial for high efficient photocatalysis

DOI 10.1515/ntrev-2015-0043

Nanotechnol Rev 2016; 5(4): 417–423

Review: 3D graphene-TiO₂ hybrid nanomaterials provide high photocatalytic efficiency due to the superior properties of 3D graphene.

Keywords: 3D graphene; hybrid nanomaterial; photocatalysis.

