Special Issue

Graphene and Graphene Oxide in Biomedical Application

Message from the Guest Editor

Graphene-based nanostructures and nanohybrids have attracted more and more attention in recent years due to their two-dimensional structures, high surface areas, good biocompatibility, low mass density, and unique electrical property. One of the most exciting applications of graphene and graphene oxide is in the biomedical engineering field. For example, graphene and graphene oxide have been used as very good platforms for the binding of biomacromolecules and various nanoparticles for the electrical, optical, and spectral biosensing of DNA, proteins, and viruses; the modification of graphene or graphene oxide with biopolymers have been utilized for cell cultures, tissue repair and regeneration, as well as controlled drug delivery; even the conjugation of graphene or graphene oxide with quantum dots has been further applied for the cellular targeting and imaging. Keywords: grapheme, graphene oxide, nanoparticle, nanohybrids, materials synthesis, nanocomposites, biosensors, biomineralization, tissue engineering, cell culture, cellular bioimaging, drug delivery

Guest Editor

Prof. Dr. Gang Wei

1. College of Chemistry and Chemical Engineering, Qingdao University, Qingdao 266071, China
2. Faculty of Production Engineering, University of Bremen, D-28359 Bremen, Germany

Deadline for manuscript submissions

closed (30 September 2017)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/7832

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)