



The Biomedical Applications of Graphene and Graphene-Related Materials

Guest Editors:

Dr. Seyyed Mojtaba Mousavi

Dr. Seyyed Alireza Hashemi

Prof. Dr. Wei-Hung Chiang

Dr. Ahmad Gholami

Deadline for manuscript
submissions:

closed (15 October 2022)

Message from the Guest Editors

A great deal of attention has been paid to the pharmaceutical and biomedical applications of graphene oxide and graphene quantum dots. The use of such materials facilitates the development of drug formulations by mixing solutions of graphene quantum dots and drugs, and can be used to improve the dissolution of low-molecular-weight hydrophobic drugs. Due to the ease of formulating pharmaceutical products by a simple process of mixing drugs with these substances, as well as their favorable biocompatibility and the possibility of numerous applications, they can be used in medicine and pharmacy to control dual drug release, the dissolution of insoluble drugs, and the controlled release of drugs and large biological molecules. Graphene-based nanostructures and nanohybrids have attracted increasing attention in recent years due to their two-dimensional structures, high surface areas, and good biocompatibility. One of the most exciting application areas of graphene and graphene oxide is in the biomedical engineering field. This Special Issue is expected to gather contributions from corresponding works on new methods, new structures, new materials, and new bio-applications.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande, Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*.

Pharmaceuticals is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Pharmaceutical Science*)

Contact Us

Pharmaceuticals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/pharmaceuticals
pharmaceuticals@mdpi.com