



Photosensitive Nanomaterials for Biomedical Applications

Guest Editor:

Prof. Dr. Janusz M. Dąbrowski

Faculty of Chemistry,
Jagiellonian University, 30-387
Krakow, Poland

Deadline for manuscript
submissions:

closed (20 January 2022)

Message from the Guest Editor

Current developments in the field of photosensitive nanostructured materials have a profound impact on many areas of biomedical applications. Some of the key issues concern the synthesis of photochemical active compounds and materials, and their characteristics, compatibility, toxicity, and bioactivity. The most fascinating advances in photomedicine and nanotechnology can be found in diagnosis and therapy, involving the direct use of nanomaterials and light in biological systems. Research into next-generation smart photosensitizers both in homogeneous and heterogeneous systems has gained prominence in recent years. The use of photosensitizers associated with different types of nanoscale delivery vehicles in particular has received strong interest within the field of the photodynamic therapy (PDT) and photodynamic inactivation of microorganisms (PDI).

This Special Issue aims to present innovative, high-quality original research articles as well as review articles on the synthesis, structure, physicochemical properties, and biological activity of photochemically active nanomaterials for biomedical applications.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

Message from the Editorial Board

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)