



materials



an Open Access Journal by MDPI

Nanomaterials for Biomedical Applications

Guest Editors:

Prof. Dr. Anne Marie Healy

Dr. Tanya Levingstone

Prof. Dr. Helen McCarthy

Dr. Eduardo Ruiz-Hernandez

Prof. Dr. Juan Luis Vivero-Escoto

Deadline for manuscript
submissions:
closed (9 April 2018)

Message from the Guest Editors

The use of nanomaterials in the biomedical field presents many revolutionary opportunities in the fight against all kinds of cancer, cardiac and neurodegenerative disorders, infection and other diseases. The nanoparticle platforms that have been extensively explored for biomedical applications are predominantly either purely inorganic or organic materials.

Hybrid nanoparticles are composed of both inorganic and organic components that can not only retain the beneficial features of both inorganic and organic nanomaterials, but also possess unique advantages over the other two types. Hybrid nanoparticles have been proposed for the targeted release of diagnostic agents and drugs, and even as stimuli responsive nanocarriers to enhance therapy selectivity. The combination of these materials with current efforts to identify genes, proteins and metabolites implicated in human disease and use system biology approaches to develop new prognostic tools and more targeted therapies for patients, will dramatically impact healthcare in the coming years.

This Special Issue focuses on the use of organic/inorganic or hybrid nanomaterials for biomedical applications.



mdpi.com/si/9613

Special Issue



an Open Access Journal by MDPI

Editor-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

Message from the Editor-in-Chief

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 & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)