



an Open Access Journal by MDPI

Nanomaterials for Biomedical Applications

Guest Editors:

Prof. Dr. Anne Marie Healy

Pharmaceutics and
Pharmaceutical Technology,
School of Pharmacy and
Pharmaceutical Sciences, Trinity
College Dublin, the University of
Dublin, Dublin 2, Ireland

healyam@tcd.ie

Assist. Prof. Eduardo Ruiz- Hernandez

Pharmaceutical Chemistry of
Nanocarrier Drug Delivery
Systems, School of Pharmacy
and Pharmaceutical Sciences -
Panoz Institute, Trinity College
Dublin, the University of Dublin,
Dublin 2, Ireland

RUIZHERE@tcd.ie

Assist. Prof. Juan Luis Vivero- Escoto

Department of Chemistry,
College of Liberal Arts & Sciences,
University of North Carolina at
Charlotte, Charlotte, NC 28223,
USA

Juan.Vivero-Escoto@uncc.edu

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.

Deadline for manuscript



April 2018)

mdpi.com/si/9613

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

Professor of Biomedical Engineering, Professor of Bioengineering, Professor of Experimental Surgery, Associate Dean—Research and Graduate Studies, Department of Biomedical Engineering, Faculty of Medicine/Faculty of Dentistry, Duff Medical Science Building, Room 313, 3775 University Street, Montreal, QC, H3A 2B4, Canada

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers eleven comprehensive topics: biomaterials, energy materials, advanced composites, structure analysis and characterization, porous materials, manufacturing processes and systems, advanced nanomaterials, smart materials, thin films, catalytic materials and carbon materials. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles. *Materials* provides an 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 by the Science Citation Index Expanded (Web of Science), Ei Compendex and other databases. For more information on the journal's Impact Factor, see here. Citations to become available in PubMed soon, full-text archived in PubMed Central.

Rapid publication: manuscripts are peer-reviewed; a first decision is provided to authors approximately 15 days after submission; acceptance to publication undertaken in 5.38 days (median values for papers published in the first six months of 2018).

Contact us

Materials
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
@Materials_Mdpi