Special Issue

Medical Nanocarriers

Message from the Guest Editor

The approach of “one-size-fits-all” in modern medicine should be replaced by a new way for precise or personalized medicine. It is known that the use of drug delivery systems able to deliver active molecules to the desired site increases treatment success. A good drug delivery system must comply with at least two characteristics: the ability to penetrate through the body barriers and reach the desired location with minimal loss of the volume or activity while in circulation; and second, after reaching the site location they should be selective enough to affect mainly the desired cells. If these goals are achieved, there will be an increase in intracellular concentration of the drugs resulting with reduced dose-limit toxicity. Another important question is passive and active targeting; in the case of passive targeting, some drugs will not be efficiently diffused and may result in multiple-drug resistance. So, it is possible to overcome this issue by functionalizing the carriers. The development of a nanocarrier is an extremely complex project as it involves several crucial steps from size, dispersion, and ability to target specific cells.

Guest Editor

Dr. Cláudia Botelho

CEB—Centre of Biological Engineering, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal

Deadline for manuscript submissions

closed (20 January 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/53102

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

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

About the Journal

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.

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

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)