Special Issue

Block Copolymers for Drug Carriers/Vehicles

Message from the Guest Editor

Block copolymers with an amphiphilic nature are known to self-assemble in an aqueous medium into polymeric micelles with a micro- to nanosize range, which are characterized by their unique core–shell architecture. Space created inside the micelle core can be used for transportation of drug molecules of hydrophobic nature, low solubility in blood, and with numerous side effects to the human body, especially those for cancer treatments. This issue aims to introduce the current state-of-the-art concerning polymeric drug delivery systems and to envision future perspectives. The topical subjects to be addressed include synthetic block polymers, natural polymers, bioconjugation of polymers, stimuli-responsive block copolymers, bioactive polymers, smart polymers, nanogels, hydrogels, the dynamics of polymers crossing biological barriers, targeted drug delivery, etc. Considering your prominent contribution in this research area, I would like to invite you to submit high-quality original communications, full-length research articles, and reviews for this Special Issue.

Guest Editor

Prof. Dr. Kwon Taek Lim

Major of Display Semiconductor Engineering, Pukyong National University, Busan, Republic of Korea

Deadline for manuscript submissions

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

mdpi.com/journal/materials

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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

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