Special Issue

Advances in Polymeric Biomedical Materials

Message from the Guest Editors

Over the past two decades, the interdisciplinary field of biomaterials and tissue engineering has experienced dynamic and rapid growth. Polymeric biomaterials possess many advantages due to their unique tailorability of chemical structures and physical properties, biodegradability, and the feasibility of fabricating them into medical devices for applications including tissue replacement, drug delivery, cancer therapy, and nonviral gene therapy. Based on the principles of polymer science and engineering, numerous strategies have been applied to develop biomaterials with controllable physical properties to satisfy diverse clinical needs by tuning their structural parameters and morphologies at different length scales. Polymeric biomaterials can be incorporated with natural materials and inorganic nanoparticles to achieve novel, unique properties and better performance. Biomimetic and intelligent polymeric systems have also been investigated to advance our material design strategies.

Guest Editors

Prof. Dr. Shanfeng Wang

Prof. Dr. Lichun Lu

Prof. Dr. Michael J. Yaszemski

Deadline for manuscript submissions

closed (20 June 2022)



an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/73174

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

mdpi.com/journal/materials





an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 6.4 Indexed in PubMed





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

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