materials

IMPACT FACTOR 3.1

Indexed in: PubMed

CITESCORE 5.8

an Open Access Journal by MDPI

Advances in Polyethylene Based Composites

Guest Editor:

Dr. Aleksey Maksimkin
Institute of Bionic Technologies and Engineering, I.M. Sechenov First Moscow State Medical University, 119991 Moscow, Russia

Deadline for manuscript submissions:
closed (31 January 2021)

Message from the Guest Editor

Dear Colleagues,

PE is the most widely used polymer material with many unique properties. These properties are so various that they allow the creation of tribological materials, biocompatible implants, high performance fibers, and even artificial muscles from PE. Even though PE is one of the most studied polymer materials, the number of scientific articles about PE continues to grow every year due to the fact that PE has a simple chemical structure, but has many variations in the supramolecular structure that determine the wide range of final properties of PE-based materials.

This Special Issue is devoted to the latest advances in PE-based composites and covers the following topics:

- PE with shape memory effect
- implants based on PE
- self-reinforced PE composites
- high performance fibers and films
- anti-friction materials based on PE
- crystallization and supramolecular structure of PE

It is my pleasure to invite you to submit full papers, communications, and reviews for the Special Issue "Advances in Polyethylene Based Composites."

materials

IMPACT FACTOR 3.1 | Indexed in: PubMed | CITESCORE 5.8

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 - Q1 (Metallurgy and 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