materials

IMPACT FACTOR 3.2

Indexed in: PubMed

CITESCORE 6.4

an Open Access Journal by MDPI

Polymers Assembly and Applications

Guest Editor:

Dr. Julia V. Kostina
A.V.Topchiev Institute of Petrochemical Synthesis, RAS, Moscow, Russia

Deadline for manuscript submissions:
closed (31 October 2021)

Message from the Guest Editor

Intermolecular interactions form the basis of the theory of the physical network of entanglements in polymer systems and substantiate the physicochemical properties of polymer materials. Meanwhile, low-energy non-covalent polymer–solvent interactions in synthetic polymers, until recently, were on the periphery of the attention of science in relation to high molecular weight compounds.

Nevertheless, the main contribution to the role of non-covalent interactions with low molecular weight compounds was made by works on organic, inorganic and organometallic synthesis and catalysis, obtaining crystals and biomaterials. Meanwhile, such an extensive field of knowledge as polymer materials science was practically out of sight, despite the fact that that non-covalent interactions in polymer objects are important both.

Hence, in order to obtain polymeric materials with certain physicochemical and, in some cases, mechanical strength characteristics, it is necessary to understand the role of non-covalent macromolecule–low-molecular substance interactions in the formation of certain structural features in synthetic polymers and especially the composite materials based on them.

materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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