Special Issue

Recent Advances in Polymer and Polymer Composite Membranes

Message from the Guest Editor

Polymeric membranes that contain natural or synthetic polymers and biopolymers are considered a new and promising approach for water purification applications (e.g., electrodialysis, ultrafiltration, reverse osmosis, microfiltration nanofiltration) due to their advantages, such as high separation efficiency, high selectivity, increased life span, feasibility, the ability to remove or recover metal ions and to remove organic or inorganic colloids, bacteria or other microorganisms, high flux, good mechanical, thermal, and chemical stability, low cost, and minimum maintenance. The membranes that contain natural polymers or biopolymers such as cellulose and chitin along with their derivatives, starch, alginate, poly (lactic acid), silk and poly (butylene succinate), represent a new potential application in the field of water treatment membranes. The aim of this Special Issue is to highlight the synthesis, characterization, and applications of polymeric membranes.

Guest Editor

Dr. Simona Căprărescu

Department of Inorganic Chemistry, Physical Chemistry and Electrochemistry, Faculty of Chemical Engineering and Biotechnologies, National University of Science and Technology Politehnica Bucharest, Bucharest, Romania

Deadline for manuscript submissions

closed (20 May 2022)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/56377

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)