Special Issue

Macroscopic Assembly of Nanocarbon Materials

Message from the Guest Editor

Nanocarbon materials, encompassing fullerene, carbon nanotubes, and graphene, have heralded the advent of the nanotechnology era. These nanocarbon materials, with their exceptional mechanical, thermal, and electronic properties, have showcased their potential across a myriad of applications. In the 21st century, extensive research efforts have been made into the assembly of nanocarbon materials to fabricate macroscopic materials, such as fibers, films, and aerogels, composed of nanocarbon. These macroscopic nanocarbon materials display an unprecedented level of multifunctionality. This Special Issue invites high-quality papers that deal with interesting research about the assembly of nanocarbon materials. The topics of interest include, but are not limited to, the following:

- Spinning of carbon nanotube fibers;
- Fabrication of carbon nanotube fibers, films, and aerogels;
- Spinning of graphene fibers;
- Fabrication of graphene fibers, films, and aerogels;
- Applications of macroscopic assemblies of carbon nanotubes;
- Applications of macroscopic assemblies of graphene.

Guest Editor

Dr. Jaegeun Lee

Department of Organic Material Science and Engineering, Pusan National University, 2 Busandaehak-ro 63 beon-gil, Geumjeong-gu, Busan 46241, Republic of Korea

Deadline for manuscript submissions

closed (20 April 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/196921

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

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)