Special Issue

Bioresources as Precursor for Novel Nanostructured Materials towards Environmental Remediation (Volume II)

Message from the Guest Editors

The utilization of environmentally benign abundant and renewable materials on the way to a sustainable future is urgent to deal with the reality of the ongoing environmental crisis. A novel trend is the establishment of multifunctional materials that not only retain the pollutants but also possess the ability to either decompose or mineralize them catalytically. The incorporation and nano-engineering of the already efficient carbonaceous materials with reactive nanophases has gained the interest of the research community. Additionally, the usage of abundant bioresources such as biomass as feedstocks can further elevate the green-oriented nature of these media. Considering all the above, this Special Issue targets the latest trends and advances in carbonaceous nanostructured materials as well as nanocomposites for environment-oriented applications that reveal adsorptive and/or catalytic performances better than the currently used materials. Emphasis will be placed on biomass-derived materials, the reusability of the adsorbents, and on novel trends towards the enhancement of the catalytic/reactive decomposition or mineralization.

Guest Editors

Prof. Dr. Ioannis Pashalidis

Dr. Ioannis Anastopoulos

Dr. Mariusz Barczak

Dr. Dimitrios Giannakoudakis

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/148553

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)