Special Issue

Synthesis and Application of Biomass-Derived Carbon-Based Nanomaterials

Message from the Guest Editor

Biomass-derived carbon-based nanomaterials can potentially be applied in the fields of environmental remediation, energy conversion and storage and medical care, among others. The unique composition and tissue structures of the biomass grant these carbon-based nanomaterials with outstanding features, such as high surface area, well-developed porous texture and active heteroatom doping sites. Meanwhile, the abundant resources of biomass have further endowed these materials with feasibility for potential large-scale application. The scope of this issue covers the novel design and synthesis of carbon-based nanomaterials derived from biomass. This Special Issue is also a suitable venue for research devoted to understanding the catalytic, thermal, magnetic, chemical, or electrochemical properties of biomass-derived carbon-based nanomaterials toward promoting their applications in the fields of environmental remediation, energy conversion and storage and medical care, to name but a few. We look forward to receiving your contributions.

Guest Editor

Prof. Dr. Dapeng Wu

School of Environment, Henan Normal University, Key Laboratory of Yellow River and Huai River Water Environment and Pollution Control, Ministry of Education, Xinxiang 453007, China

Deadline for manuscript submissions

closed (31 March 2023)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/96344

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

MDPI

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

MDPI

About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)