

Special Issue

Novel Green Nanotechnologies Applied in Environmental Protection and Health—2nd Edition

Message from the Guest Editors

Humanity is currently facing challenges due to environmental pollution. Several tons of plastic or industrial waste is randomly dumped into the environment, polluting waters and soils and thus creating multiple health issues for all living things. To keep the Earth clean, we need to adopt eco-friendly strategies that sustain human and environmental health. Green nanotechnology—the science of the future—can help in preventing future environmental problems and in improving quality of life and well-being. In addition, bioinspiration and biomimetics have become new trends in green nanotechnology for the “green” development of multifunctional materials with potential applications in the biomedical field and in environmental protection. This Special Issue invites authors to contribute original research articles and review papers that describe novel green nanotechnologies applied in the design of eco-friendly materials, by exploiting natural resources, and recycling food and vegetable wastes and converting them into valuable materials with applications in various fields.

Guest Editors

Dr. Marcela-Elisabeta Barbinta-Patrascu
Prof. Dr. Nicoleta Badea
Prof. Dr. Ileana Rau

Deadline for manuscript submissions

closed (20 August 2025)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/203448

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

[mdpi.com/journal/
materials](https://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](https://mdpi.com/journal/materials)



About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)