



an Open Access Journal by MDPI

Advanced Properties and Applications of Micro-/Nano-Scale Energetic Materials

Guest Editors:

Dr. Gazi Hao

Dr. Xiaolong Fu

Dr. Xiang Ke

Dr. Suhang Chen

Dr. Wanjun Zhao

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

Micro/nano energetic materials are ultrafine and usually have an average particle size of up to 20 micrometers (they can be as small as a few nanometers). Micro/nano energetic materials have higher combustion and energy release efficiencies and complete combustion and explosion processes due to their small particle size, large specific surface area, high surface energy, and surface activity. In the formulation of energetic materials, the micro/nanometer particle size gradation is often used to regulate the charge density and energy release of weapons charges to improve their mechanical properties and safety performance. Micro and nano technologies have become the key technology and research hotspot for the revolutionary change in energetic materials. The research areas include but are not limited to the following areas: emerging technologies and methods for the preparation of micro/nano energetic materials, characterization technologies for micro/nano energetic materials, numerical simulation of the performance for micro/nano energetic materials, application performance of micro/nano energetic materials, and energy release mechanism of micro/nano energetic materials.





an Open Access Journal by MDPI

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

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.

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 - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)