Special Issue

Nanodiamond Particles: Properties and Applications

Message from the Guest Editor

Nanodiamond particles have found their way into a plethora of scientific investigations, with applications ranging from highly-stable fluorescent biomarkers for cellular probes to strengthening additives in composite materials. The surface of these tiny gems can be chemically modified to achieve a desired interaction with their environment, leading to molecular grafting and the ability to be either hydrophilic or hydrophobic, depending on attached functional groups. It is no wonder that the remarkable properties and tailored response of such a nanoparticle has sparked tremendous scientific investigation in recent years. Nanodiamond's excellent mechanical and optical properties, high surface area, non-toxicity and tunable surface structures, combined with refined techniques for mass-production and commercialization, has created amazing research opportunities and discoveries in fields as diverse as medicine and astrochemistry. We kindly invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

Dr. Shane Aaron Catledge

Department of Physics, University of Alabama at Birmingham, Birmingham, AL, USA

Deadline for manuscript submissions

closed (31 May 2019)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/12601

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)