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Nanodiamond Particles: Properties and Applications

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)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Shane Aaron Catledge
Guest Editor

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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

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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𝕏@Materials_Mdpi