



Advanced Plasma Processes for Nanotechnologies

Guest Editor:

Dr. Anton Nikiforov

Research Unit of Plasma
Technology (RUPT), Department
of Applied Physics, Ghent
University, 9000 Ghent, Belgium

Deadline for manuscript
submissions:

closed (15 September 2020)

Message from the Guest Editor

Dear Colleagues,

Plasma processing has proven to be an invaluable tool in many areas, including materials engineering and nanotechnology. There is no doubt that it would be impossible to reach the current level of progress in semiconductor and electronics industries without the use of plasma technology. Novel advanced plasma processing methods have made strong contributions to nanotechnology, and an increase of plasma processing's impact on nanoscience is foreseen in the short- and long-term.

This Special Issue will focus on recent progress in the development of novel plasma processes for establishing new trends in nanotechnology and material science. Special attention will be given to the engineering of nano-materials with unique properties for the demands of biomedical, chemical, and semiconductor industries; catalysts synthesis; and thin coatings, including clusters and nano-composites. The scope of the Special Issue is to provide a comprehensive overview of recent progress in the field of plasma methods for nano-materials engineering and to give insight into physical and chemical backgrounds of plasma processing.

Dr. Anton Nikiforov
Guest Editor





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

Contact Us

Materials Editorial Office
MDPI, St. Alban-Anlage 66
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)