



an Open Access Journal by MDPI

Modification of Diamond-Like Carbon Coatings for Biomedical Application

Guest Editors:

Prof. Dr. Witold Kaczorowski

Institute of Materials Science and Engineering, Lodz University of Technology, 90-924 Lodz, Poland

Dr. Witold Jakubowski

Institute of Materials Science and Engineering, Lodz University of Technology, 90-924 Lodz, Poland

Deadline for manuscript submissions:

closed (30 November 2021)

Message from the Guest Editors

Diamond-like carbon coatings (DLCs) deposited using many different CVD or PVD techniques still arouse invariable interest in the field of biomedical applications. We can manufacture diamond-like carbon coatings with different chemical compositions, structures, and topographies in order to obtain an appropriate biological response. The discovery of new solutions in biomedical applications and the improvement of modern implants is possible through the surface modification of DLC coatings. The purpose of this Special Issue is to show current trends taking advantage of the surface modification of DLC coatings. Articles showing the relationships between the technological parameters and biological characteristics, including the possibilities of doping DLC coatings, their plasma, or chemical surface modification, as well as the application of DLC in multilayer structures, will be appreciated.



mdpi.com/si/74970

Special Issue



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)