



an Open Access Journal by MDPI

## Plasma Surface Engineering of Materials

Guest Editors:

### **Prof. Petr Špatenka**

Faculty of Mechanical  
Engineering, Czech Technical  
University in Prague, Prague,  
Czech Republic

### **Dr. Ladislav Cvrček**

Faculty of Mechanical  
Engineering, Czech Technical  
University in Prague, Prague,  
Czech Republic

Deadline for manuscript  
submissions:

**closed (30 September 2020)**

### **Message from the Guest Editors**

Plasma technologies have become a part of industrial applications that replace or compete with standard technologies. Their potential is expanding thanks to new plasma sources and new techniques. This opens new areas where these technologies have a potential for future application. Successful applications include adaptive tribology coatings working at high temperatures or the surface treatment of polymer-based nanoparticles. Another interesting area is hybrid technologies. In this case, plasma technologies can complement or facilitate the application of already-established methods. This Special Issue will include knowledge from basic research that has potential for industrial use as well as that which can be applied in existing industrial technologies. We will focus on the following specialized topics:

- Plasma and ion surface engineering
- Coatings in contact with water and ice
- Adaptive tribological coatings
- Flexible coatings
- Biomedical and biological applications
- Particles and powders in plasma
- Plasma treatment, plasma cleaning
- Plasma–surface interaction





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](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)