



## Plasma Processed Thin Films and Coatings

Guest Editors:

**Dr. Reinhard Kaindl**

Institute for Surface Technologies and Photonics, Joanneum Research Forschungsgesellschaft mbH, Leobner Strasse 94, A-8712 Niklasdorf, Austria

**Dr. Tomáš Homola**

R&D Centre for Low-Cost Plasma and Nanotechnology Surface Modifications, Department of Physical Electronics, Masaryk University, Kotlářská 267/2, 61137 Brno, Czech Republic

Deadline for manuscript submissions:

**closed (22 February 2020)**

### Message from the Guest Editors

Dear Colleagues,

Thin films and coatings, deposited by physical and chemical plasma-assisted or -enhanced processes like atomic layer deposition, atmospheric pressure plasma deposition, magnetron sputtering, and so on, find many applications, for example, in the healthcare and pharmaceutical industry, energy production, and automotive and aerospace industries. Bioactive coatings like titanium oxide can improve the antimicrobial activity of metal or the polymeric surfaces of implants, but also of everyday life objects, like holding rods in public transport. Functional coatings on the other hand can improve the process of osseointegration, which is the direct structural and functional integration between living bone and an implant.

We encourage the community working on plasma PVD and CVD thin films and coatings to submit the outcomes of their research to this Special Issue. Manuscripts covering all aspects, including, but not restricted to, the deposition, characterization, and applications of bioactive thin films and coatings in science and technology are welcome.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)