



## Cold Atmospheric Plasma and Its Applications

Guest Editors:

**Prof. Dr. Andrea Sevcovicova**

Department of Genetics, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

**Dr. Stanislav Kyzek**

Department of Genetics, Faculty of Natural Sciences, Comenius University, Bratislava, Slovakia

Deadline for manuscript submissions:

**closed (20 October 2022)**

### Message from the Guest Editors

Cold atmospheric plasma has been widely used in many industrial fields. It has been the subject of many studies aimed at evaluating its effects on biological material. The most studied are decontamination effects applied in medicine and agriculture. Moreover, cold atmospheric plasma can be applied directly on the surface or indirectly using plasma-activated water or medium which allows its application also to the inner layers of treated material. However, the effects of cold atmospheric plasma treatment differ due to different plasma sources and treatment conditions in various laboratories. Therefore, further studies aimed at elucidating the mechanisms involved in plasma and treated object interactions are required. This Special Issue calls for original articles and reviews devoted to the application of cold atmospheric plasma in various research fields.

Keywords:

cold atmospheric plasma

plasma application

plasma-activated solutions

plasma interactions

plasma source





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, St. Alban-Anlage 66  
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)  
[appls@mdpi.com](mailto:appls@mdpi.com)  
[X@Appls](https://twitter.com/appls)