

## Special Issue

# Plasma and Associated Medical Applications

### Message from the Guest Editor

Due to their unique characteristics, atmospheric pressure plasma discharges are now being used in new applications in the medical field. A comprehensive survey of plasma applications and an understanding of the physics behind plasma's interaction with wounds, skin cells, and surfaces is required to further expand this field to reach other frontiers.

The aim of this Special Issue is to gather current information regarding both technical and commercial aspects of plasma applications in medicine. These applications include plasma–wound interaction chemistry, plasma–water interaction, plasma–cell interaction, viral and bacterial mitigation, and surface decontamination with multiple commercial applications.

Non-equilibrium, low temperature atmospheric discharges require special plasma torches that have evolved in terms of their design. This call for papers will provide a comprehensive survey of plasma torch designs and assess their ability to control plasma parameters in a controlled fashion.

Plasma experts are encouraged to submit their papers to cover multiple novel plasma applications in medicine and related fields

---

### Guest Editor

Dr. Sohail H. Zaidi

Intelligence Institute, San Jose, CA 95192, USA

---

### Deadline for manuscript submissions

closed (30 October 2024)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/185754](https://mdpi.com/si/185754)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

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

---

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

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )