

## Special Issue

# Nuclear and Ray Technologies for Space Physics Applications II

### Message from the Guest Editor

Nuclear and ray technology have significantly contributed to the recent epoch of multi-messenger physics and astrophysics. For future scientific space missions devoted to study fundamental physics and astrophysics, as well as space weather and the Earth's magnetosphere, the development of novel technologies for sensors and front-end electronics is paving the way to new pioneering detectors. This Special Issue is focused on the latest developments and research results of novel sensor technologies, which span from modules with integrated readout and processing electronics to sensors and new electronics production methods, relying on ground-breaking additive manufacturing techniques. Among other technologies, additive manufacturing has been proven to enable a new design approach integrating different materials and functionalities. The latest technological developments on sensors and front-end electronics will be shared through this Special Issue. We invite researchers and investigators to contribute with their original research or review articles to this Special Issue.

### Guest Editor

Dr. Cristian De Santis

Istituto Nazionale di Fisica Nucleare, Sezione di Roma Tor Vergata, I-00133 Rome, Italy

### Deadline for manuscript submissions

closed (30 June 2023)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/152855](https://mdpi.com/si/152855)

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

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

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





# 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 )