## Special Issue

## **Nuclear and Ray Technologies** for Space Physics Applications

## Message from the Guest Editor

Nuclear and ray technology have significantly contributed to the recent epoch of multi-messenger physics and astrophysics. For the next future scientific space missions devoted to study fundamental physics and astrophysics as well as space weather and Earth's magnetosphere, the development of novel technologies for sensors and front-end electronics are paving the way for 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 electronics new production methods, relying on ground-breaking additive manufacturing techniques. Among other technologies, additive manufacturing has proven to enable a new design approach integrating different materials and functionalities.

This capability of integrating different technologies will enable the development of cheaper and more flexible detectors for space applications. Keywords

- multi messenger physics
- multi messenger astrophysics
- fundamental physics
- space weather
- front-end electronics
- additive manufacturing
- magnetospheric phenomena
- detectors
- sensors

### **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 September 2022)



# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/82793

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applisci@mdpi.com

mdpi.com/journal/applsci





## Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



## **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)

