



## Advanced Neutrino Detector Development and Application

Guest Editor:

**Prof. Dr. Shaomin Chen**

Department of Engineering  
Physics, Tsinghua University,  
Beijing 100084, China

Deadline for manuscript  
submissions:

**20 August 2024**

### Message from the Guest Editor

Dear Colleagues,

Whether neutrinos have mass remains an unanswered physics question beyond the Standard Model of particle physics. Therefore, the research on neutrinos has always been a hot topic in fundamental physics. At the same time, the advancement of neutrino oscillation and property studies is now making neutrinos a unique probe for detecting nuclear energy from the Earth, the Sun, and the stars in the universe. We have already seen many efforts to build a real-time unbiased monitor for nuclear reactors' operation in power plants. In the future, researchers are even thinking of using neutrinos for tomography of the Earth's interior. The papers in this Special Issue will summarize the current progress and prospects of neutrinos in the above aspects.

Prof. Dr. Shaomin Chen  
*Guest Editor*





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 - Q2 (*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)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
X@Applsci