



## Photoelectric Detection Systems: Basics and Applications

Guest Editor:

**Prof. Dr. Hui Wang**

School of Physics and  
Astronomy, Shanghai Jiao Tong  
University, Shanghai 200240,  
China

Deadline for manuscript  
submissions:

**closed (31 October 2022)**

### Message from the Guest Editor

Photoelectric detection is moving toward high performance, low cost, and small volume to meet rising demand and plays a very important role in a wide range of areas, including electro-optical displays, image sensing, environment monitoring, telecommunications, military uses, space exploration, security checks, and so on. Advances in photoelectric detection systems crucially depend upon a synergistic, multidisciplinary research effort. Recently, materials scientists, physicists, chemists, and engineers have reported much research on improving the key figure-of-merit parameters of photoelectric detection systems such as sensitivity, spectral selectivity, response speed, and stability.

In this Special Issue, authors can submit research and application studies devoted to photoelectric effects and various detectors. Additionally, papers about materials synthesis and the fabrication of photoelectric detectors will be accepted. Moreover, the modeling and simulation of photoelectric detectors is a crucial step that must be taken prior to application, and research papers in this area are also welcome in this Special Issue.





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, Grosspeteranlage 5  
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](#)