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Photoelectric Detection Systems: Basics and Applications

Guest Editor:

Prof. Dr. Hui Wang
School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China

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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.

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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.

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Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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