



## Innovations in Photonic-Based Diagnostics

Guest Editor:

**Dr. Nikolaos Kourkoumelis**

Department Medical Physics,  
School of Health Sciences,  
Faculty of Medicine, University of  
Ioannina, 45110 Ioannina, Greece

Deadline for manuscript  
submissions:

**closed (31 January 2025)**

### Message from the Guest Editor

In the rapidly evolving landscape of medical diagnostics, the integration of photonics technology has emerged as a groundbreaking development, heralding a new era in healthcare. This Special Issue, "Innovations in Photonic-Based Diagnostics", is meant to reflect on the advances made in this field and the potential it holds for transforming patient care.

Photonics, the science of light generation, manipulation, and detection, has found its way into the heart of diagnostic technologies, offering solutions that are not only innovative but also highly effective and efficient. The papers presented in this Special Issue will underscore the versatility and impact of photonic-based diagnostics across various medical domains, from detection to management.

The convergence of technology and healthcare holds promise for personalized, precise, and accessible healthcare solutions. This Special Issue will not only highlight the current achievements in this field but also set the stage for future innovations that will continue to revolutionize patient care and medical research.





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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (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](https://twitter.com/AtApplsci)