

Special Issue

Applied Optics and Vision Science

Message from the Guest Editors

Applied Optics and Vision Science is vital for diagnostics and for vision. Vision Science is found in range of imaging applications from microscopy to ophthalmology and in the sensing and control of materials. For this Special Issue, we are soliciting contributions on applied optics that highlight the wide spectrum of optics used for imaging and sensing, as well as for the psychophysics of vision. Understanding the optics of the eye is central to developing better ophthalmic solutions to combat vision loss and to develop novel 3D imaging systems from virtual reality headsets to holographic displays. Likewise, sensing aberrations and quantifying refractive errors are both vital for ophthalmics, for vision and for diagnostics. This is particularly the case for myopia, which is increasing globally with increased risk for irreversible vision loss. Separately, optics is vital for novel solar cells and green energy, for optical communications and for the sensing of environmental factors.

Guest Editors

Prof. Dr. Vasudevan (Vengu) Lakshminarayanan
Theoretical and Experimental Epistemology Laboratory, University of Waterloo, Waterloo, ON N2J 4A8, Canada

Dr. Brian Vohnsen

Advanced Optical Imaging Group, School of Physics, University College Dublin, Dublin D04, Ireland

Deadline for manuscript submissions

closed (30 June 2023)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/145690

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)