Special Issue

Polarization imaging: Current Status and Prospects

Message from the Guest Editor

Reflected or scattered optical polarization information from the surface of materials can reveal their physical and chemical characteristics. Therefore, optical polarization imaging has the advantageous ability to improve the contrast between the target and the background, and thus increase the detection distance in the turbid medium. As such, it is providing new possibilities for industrial testing, biomedical diagnosis and object identification.

We welcome contributions from experts and scholars from both academia and industry, which focus on specific research topics that include, but are not limited to, the following:

- fundamental theoretical research on polarized light
- polarization imaging methods and systems
- polarized reflection/radiation characteristics
- polarized light transmission characteristics
- the polarization image enhancement algorithm
- polarization imaging applications
- combining polarization information with artificial intelligence and machine learning techniques

Guest Editor

Prof. Dr. Jingping Zhu

Department of Electronics, School of Telecommunication, Xi'an Jiaotong University, Xi'an, China

Deadline for manuscript submissions

closed (30 November 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/174652

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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, CAPlus / SciFinder, and other databases.

Journal Rank:

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