

## Special Issue

# Holography: From Materials to Applications

### Message from the Guest Editors

The combination of optical technology progress and novel analytical methodologies allows promising applications to be developed and optimized in the fields of clinical diagnosis, optical sensing, nanomaterial-based technologies, bioanalysis, integrated optics, and renewable energies. Holographic interferometry and holographic lithography are useful optical techniques to develop elements for such applications. Photopolymers, photoresists, hydrogels, and those based on nanoparticles, transition metals, ionic liquid crystals, chalcogenides, or azobenzenes are some of the most used materials in holography. Their design, functionalization, and manufacture are key factors in obtaining specific properties for real applications. The aim of this Special Issue is to collect both original research articles and review papers on the most recent developments regarding the modeling, fabrication, design, or characterization of different optical systems, with special emphasis on holographic elements and materials for obtaining sensors and biosensors, solar concentrators, and novel waveguides.

---

### Guest Editors

Dr. Marta Morales-Vidal

Prof. Dr. Ángel Maquieira

Dr. María Isabel Lucío

---

### Deadline for manuscript submissions

closed (30 June 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/55786](https://mdpi.com/si/55786)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

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





# 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, CAPlus / SciFinder, and other databases.

#### Journal Rank:

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