



Smart Light-Driven Materials and Applications

Guest Editors:

Prof. Dr. Mark G. Kuzyk

Prof. Dr. Elena Boldyreva

Prof. Dr. Zouheir Sekkat

Dr. Nathan J. Dawson

Deadline for manuscript
submissions:

closed (12 November 2022)

Message from the Guest Editors

This Special Issue seeks papers on: (1) studies of the mechanisms of a photoactive response—such as a light-induced shape change—and how molecular-level properties can be harnessed to induce large macroscopic shape-shifting; (2) the development of new materials with unique photo-responsive properties, ranging from crystals to polymers and composite materials with properties that take advantage of each constituent to yield functionality that exceeds the sum of its parts; (3) the development of processes to make structures useful for applications such as optical waveguides, patterned films, and fibers; (4) the demonstration of novel devices as proof of concept; (5) integrating components to evaluate the possibility of making smart structures; (6) designs of new experiments and the characterization of materials, composites, and devices; and (7) developing theories and models of (a) the microscopic mechanisms, (b) relationships between measured quantities and the desired quantities, and (c) the operation of devices that strongly react with each other and/or operate with feedback.





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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](https://twitter.com/AtApplsci)