Special Issue

Metamaterials Meeting Industry

Message from the Guest Editor

Cancer prevention and early detection are central to saving lives, reducing financial burden, and improving the quality of patients. To address the abovementioned societal challenges, this Special Issue presents, for the first time to the best of our knowledge, studies and constructions of tissue-like phantom metamaterials with a nanometer fabrication resolution to identify healthy and cancerous areas in real tissues. Currently, the majority of metamaterials only use one degree of freedom (e.g., optical, electrical, and mechanical properties), which are under intense development in laboratories worldwide. This Special Issue aims to deal with metamaterials for industrial applications including clinical practice. These unique and novel nano-opto-electromechanical metamaterial systems offer unprecedented opportunities to control the flow of light in nanoscale structures at high speed and low power consumption. By having a deeper insight into the optical properties of the metamaterials, one may come up with solutions for clinical practice along with phantom cancerous tissues for further research and applications.

Guest Editor

Dr. Tatjana Gric

Department of Electronic Systems, Vilnius Gediminas Technical University, 10223 Vilnius, Lithuania

Deadline for manuscript submissions

closed (20 January 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/112227

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)