



Advances on Dielectric Photonic Devices and Systems beyond Visible

Guest Editors:

Prof. Dr. Francesco Prudenzano

Department of Electrical Engineering and Information, Entries Polytechnic University of Bari, Via Orabona, 4-70125 Bari, Italy

Prof. Dr. Antonella D'Orazio

Dipartimento di Ingegneria Elettrica e dell'Informazione, Politecnico di Bari, 70125 Bari, Italy

Dr. Maurizio Ferrari

Institute of Photonics and Nanotechnology, National Research Council, IFN-CNR CSMFO Lab., Via alla Cascata 56/C, Povo, 38123 Trento, Italy

Deadline for manuscript submissions:

closed (10 July 2020)

Message from the Guest Editors

Dear Colleagues,

The recent technological advances in the field of dielectric photonics, integrated optics, and optical fiber-based systems have paved the way for novel application areas based on the employment of optical beams as a feasible alternative to radio frequencies or microwave signals. Further improvement of sensor performances can be obtained by covering dielectric structure with thin metal layer exploiting plasmon propagation or resonance. Moreover, surprising applications have been originated from the progresses in the field of optical amplification, fluorescent probes, luminescent labels, optical converters, switches, detectors, etc. More details, please see: <http://d-photon.fbk.eu/>.

This Special Issue collects both original contributions and review papers on the optical devices and systems beyond visible, covering an extremely wide area of interest which ranges from telecommunication to optical remote sensing and earth atmosphere monitoring, from medical diagnosis and therapy to material processing, and from aerospace to security.

Prof. Dr. Francesco Prudenzano

Prof. Dr. Antonella D'Orazio

Dr. Maurizio Ferrari

Guest Editors





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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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