Special Issue

Sensing and Imaging in Nano-Illumination Microscopy

Message from the Guest Editors

Nano-illumination microscopy is an emergent technique with high potential for low-cost and mass-manufacturable miniature microscopes. It works by sequentially activating micro- or nano-LEDs in an array or microdisplay, and measuring the light from the sample on a pixelated sensor, which includes single-pixel detectors. Topics of interest for this Special Issue include (but are not limited to) the following:

- Technological developments to increase applicability;
- Novel measurement principles;
- Advanced LED and nanoLED arrays;
- Single-pixel detectors, including SPADs, and cameras;
- Other chip-sized microscopies;
- Applications in biology, the environment, the control of industrial processes, etc.

Guest Editors

Prof. Dr. Anna Vilà

Department of Electronic and Biomedical Engineering, University of Barcelona, 08028 Barcelona, Spain

Prof. Dr. Angel Diéguez

Department of Electronic and Biomedical Engineering, University of Barcelona, 08028 Barcelona, Spain

Deadline for manuscript submissions

closed (15 May 2025)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/158834

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

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, 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), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)