



sensors



an Open Access Journal by MDPI

Advanced Spectroscopy, Imaging and Sensing in Biomedicine

Guest Editors:

Dr. Anna Chiara De Luca

Institute of Biochemistry and Cell Biology - National Research Council of Italy, Via Pietro Castellino n.111, 80131 Napoli, Italy

Dr. Stefano Managò

Biophotonics and Advanced Microscopies Lab, Institute of Protein Biochemistry-IBP, National Research Council (CNR), Via Pietro Castellino n.111, 80131 Napoli, Italy

Dr. Ilaria Rea

Institute of Applied Sciences and Intelligent Systems (ISASI), National Research Council, 80131 Napoli, Italy

Deadline for manuscript submissions:

closed (15 June 2020)

Message from the Guest Editors

Dear Colleagues,

Now, and in the future, spectroscopy and photonics will be a strong key enabler for many techniques that can be exploited for high-resolution bioimaging and biosensing at cellular, intracellular and bulk tissue levels. This SI intends to capitalize on the recent progress in advanced spectroscopy, imaging, and sensing for the investigation of biological systems. Fluorescence microscopy, Raman/SERS imaging, and single molecule microscopy are but a few of the advanced photonic techniques emerging as powerful tools to study the response of biosystems at the level of single cells, or even single molecules, because they are non-invasive, offer high detection sensitivity, and allow functional imaging at micro- or nano-scale resolution.

To promote the latest advances in exploring spectroscopic/imaging approaches for the identification, understanding, and treatment of diseases, from the cellular/molecular level to macroscopic applications, we invite the submission of original research or review articles to this SI.

Dr. Anna Chiara De Luca

Dr. Stefano Managò

Dr. Ilaria Rea

Guest Editors



mdpi.com/si/24044

Special Issue



sensors



an Open Access Journal by MDPI

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

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.

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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)