



*sensors*



an Open Access Journal by MDPI

## Optical Sensors for Flow Diagnostics

Guest Editors:

**Prof. Dr. Yasuhiro Egami**

Department of Mechanical Engineering, Aichi Institute of Technology, 1247 Yachigusa, Yakusa-Cho, Toyota 470-0392, Aichi-Prefecture, Japan

**Prof. Dr. Hiroki Nagai**

Institute of Fluid Science, Tohoku University, Sendai 982-8577, Japan

**Dr. Yu Matsuda**

Department of Modern Mechanical Engineering, Waseda University, 3-4-1 Ookubo, Shinjuku-ku, Tokyo 169-8555, Japan

Deadline for manuscript submissions:

**closed (20 July 2022)**

### Message from the Guest Editors

The purpose of this Special Issue is to contribute to the state-of-the-art by introducing the latest developments in optical pressure (oxygen) and temperature imaging sensors based on the photochemical reaction and their applications. This Special Issue welcomes submissions of original research, novel developments, and experimental studies on optical sensors and their application in optical sensing of thermofluid dynamics.

We invite submissions on a wide range of smart sensing research, including but not limited to:

- Pressure-sensitive paint (PSP);
- Temperature-sensitive paint (TSP);
- Pressure (oxygen) sensor;
- Thermal sensor;
- Luminescence;
- Photochemical sensor;
- Thermofluid dynamics;
- Unsteady measurement;
- High-speed imaging.



[mdpi.com/si/54498](https://mdpi.com/si/54498)

# 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 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

## Contact Us

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)