



Chalcogenide Glass Based Sensors

Guest Editor:

Prof. Dr. Hongtao Lin

State Key Laboratory of Modern Optical Instrumentation, College of Information Science and Electronic Engineering, Zhejiang University, Hangzhou 310027, China

Deadline for manuscript submissions:
closed (25 April 2023)

Message from the Guest Editor

Dear Colleagues,

With its numerous advantages, such as a high chemical stability, wide optical transparency in the infrared range, large nonlinear optical effect, low tendency to crystallize, and low optical losses, chalcogenide glasses have been widely applied in industrial factories, chemical sensing, biomedical analysis, environmental monitoring, and telecommunications. The amorphous state and low-temperature deposition capability allow for chalcogenide glasses to be compatible with various materials systems and integrated platforms. This Special Issue aims to introduce recent advances in the use of chalcogenide glasses as chemical sensors, strain sensors, biosensors, photosensors, electric field sensors, magnetic sensors, photodetectors, temperature sensors, thermal radiation sensors, and humidity sensors in different fields, as well as to collect discussions on the opportunities and challenges of chalcogenide glass-based sensors for future applications.

Prof. Dr. Hongtao Lin
Guest Editor





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, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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