Special Issue

Chalcogenide Glass Based Sensors

Message from the Guest Editor

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 humility sensors in different fields, as well as to collect discussions on the opportunities and challenges of chalcogenide glass-based sensors for future applications.

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

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

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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

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