

Special Issue

Advanced Magnetic and Fluorescent Nanomaterial Sensors: Design, Development, and Application

Message from the Guest Editors

Magnetic and fluorescent nanomaterials represent transformative tools used in sensing technologies, enabling unprecedented sensitivity, selectivity, and versatility across various applications. This Special Issue, titled *Advanced Magnetic and Fluorescent Nanomaterial Sensors: Design, Development, and Application*, invites cutting-edge research on the synthesis, characterization, and integration of these nanomaterials into advanced sensing systems. Key topics include innovative fabrication methods, surface modification strategies, hybrid sensor designs, and real-world applications spanning healthcare, environmental monitoring, and industrial diagnostics. By highlighting multidisciplinary approaches that bring together chemistry, material science, and engineering, this Special Issue will inspire new avenues of exploration and collaboration, advancing the field toward scalable, real-time, and ultra-sensitive sensors with broad applicability.

Guest Editors

Dr. He Wei

Department of Chemistry and Biochemistry, California State University
Fresno, 2555 E San Ramon Avenue, Fresno, CA 93740, USA

Dr. Shuo Wu

Department of Electrical and Computer Engineering, California State
University Fresno, Fresno, CA 93740, USA

Deadline for manuscript submissions

20 December 2026



Sensors

an Open Access Journal
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Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/222524

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

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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
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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