Special Issue

Novel Nanoprobes for Biomedical Sensing, Disease Detection, and Theranostic Applications

Message from the Guest Editor

The development of multifunctional nanoprobes has revolutionized biomedical sensing and disease detection. These nanomaterials possess the ability to detect biomolecules with high sensitivity and specificity, enabling the early diagnosis of diseases such as cancer and infectious disorders. Recent advancements have expanded the role of nanoprobes into theranostic agents, integrating both diagnostic and therapeutic functions. Furthermore, integrating cutting-edge innovations like deep learning with nanoprobe technology has unlocked new possibilities for enhanced image processing, data analysis, and predictive diagnostics. By leveraging novel approaches, real-time monitoring and precision therapy can be optimized, paving the way for more personalized and effective healthcare solutions. This Special Issue will explore the latest breakthroughs in nanoprobe design and their applications in both diagnostics and therapy.

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Deadline for manuscript submissions

30 September 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed

mdpi.com/si/219083

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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.

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