

Special Issue

SERS Sensors: Analytical and Biomedical Applications

Message from the Guest Editors

SERS sensors are gradually becoming one of the most powerful sensing platforms for specific analytical, bioanalytical, and biomedical applications. In recent years, the convergence of photonic and nanoscience technologies has led to the development of robust, compact, and inexpensive SERS systems, which are suitable for the on-field analysis of hazardous pollutants and toxic chemicals. In the biological field, applications have been proposed for glucose sensing, bacteria identification, genetic diagnostics, and immunoassay labeling. This Special Issue is intended to summarize the latest developments in this rapidly evolving field. It is devoted to the discussion of the various applications of SERS sensing, with special emphasis on the analytical issues of the technique, such as sensitivity, reproducibility, and selectivity. Theoretically oriented arguments including but not limited to the plasmonic mechanism and the molecular interactions at interfaces are also covered.

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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.

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