Topical Collection

Surface-Enhanced Raman Spectroscopy for Sensing and Medical Diagnosis

Message from the Collection Editors

Surface-enhanced Raman spectroscopy (SERS) is a vibrational-spectroscopy technique based on the intensity amplification of Raman scattering by metallic nanostructures with suitable plasmonic characteristics. Although SERS was initially limited to the analysis of dilute aqueous solutions of relatively simple systems such as small molecules or molecular ions, recent advances in nanotechnology, plasmonics, and photonics encouraged the application of SERS to more complex bio-systems such as macromolecules, cells, tissues, and biofluids. The aim of this Topical Collection is to offer an overview of recent advances in SERS technology and applications. With this aim, original research papers, as well as review articles, will be published to show the diversity of the new developments in this area and the wide dissemination of the SERS technique in medical diagnostics and sensing applications for environmental monitoring, agriculture, industry, food safety, security, and pharmaceutical research.

Collection Editors

Dr. Maria Lepore

Dipartimento di Medicina Sperimentale, Università della Campania "Luigi Vanvitelli", 80138 Napoli, Italy

Dr. Ines Delfino

Dipartimento di Scienze Ecologiche e Biologiche, Università degli Studi della Tuscia, I-01100 Viterbo, Italy

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

mdpi.com/journal/sensors

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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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