Special Issue

Application of Raman Spectroscopy as Sensors for Direct in Vivo/in Situ Investigation

Message from the Guest Editor

For this Special Issue, we invite both reviews and original research articles discussing novel Raman-based (bio)chemical time-resolved sensing techniques that can be applied to in situ/in vivo applications for analyte detection, quantification, surveillance, or mapping. Research articles may focus on the use of Raman-based sensors in biological analysis, medical diagnostics, illicit drug detection, combustion science, public safety, or food and water quality inspection. Raman spectroscopic applications involving biofilms, lab-on-chip and organ-on-chip, or Raman combined with other techniques are of high interest for this Special Issue. Reviews must offer a critical and up-to-date overview of the state of the art in a particular application, or discuss present and future challenges of Raman-based sensors (limit of detection, multiplexing, detection in complex matrices, time, etc.).

- Time-resolved Raman spectroscopy
- Stimulated Raman scattering
- Hyper Raman spectroscopy
- Coherent anti-Stokes Raman spectroscopy
- Terahertz Raman spectroscopy
- Surface-enhanced Raman spectroscopy
- Tip-enhanced Raman spectroscopy

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2020)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

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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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