



an Open Access Journal by MDPI

Applications of Raman Techniques in Biosensing

Guest Editor:

Dr. Andrey Kuzmin

Department of Chemistry and
Institute for Lasers, Photonics
and Biophotonics, University at
Buffalo, State University of New
York, Buffalo, NY, USA

Deadline for manuscript
submissions:

closed (30 November 2018)

Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on recent developments in the field of “Applications of Raman Techniques in Biosensing”. Technological advances of the last few years in lasers, solid-state photodetectors, and optical elements have significantly boosted the sensitivity of Raman non-invasive techniques, which provide high, 3D-resolution and selective label-free sensing of biomolecular environments. These Raman scattering techniques include, but are not limited to, spontaneous coherent and resonance Raman, SERS, SERRS, TERS in (micro-)spectroscopy, and imaging. Exciting application fields for these sensing techniques are biophysical studies, biomedical diagnostics, monitoring of drug–cell interactions, single-cell and organelle studies, and many others.

You are kindly invited to submit your original articles or reviews.

Dr. Andrey Kuzmin

Guest Editor



mdpi.com/si/15774

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry “Ugo Schiff”, University of Florence, Via della Lastruccia 3, 50019 Sesto Fiorentino, Italy

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized.

Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Embase, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Biosensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biosensors
biosensors@mdpi.com
X@Biosensors_MDPI