Special Issue

Raman Spectroscopy: Emerging Technologies and Applications in Biological and Biomedical Fields

Message from the Guest Editors

Raman spectroscopy (RS) has already been proven to be a formidable tool for the study of complex biological processes, detection of specific endogenous biomarkers, assessment of pathological conditions, and disease-site tracking with exogenous contrast agents for diagnostic purposes. This Special Issue aims to collect research papers and review articles focused on the evolution of Raman spectroscopy with the aim of answering technological and analytical needs in the biological and medical fields. To sustain and stimulate the involvement of young and emerging researchers (less than 40 years old at the time of submission), we strongly encourage their participation in a prominent role (first author and/or corresponding author, shared or not with a senior author). The Special Issue topics include, but are not limited to:

- Tools and technologies: spontaneous RS, Raman imaging, stimulated RS (e.g., SRS and CARS), nano-enhanced RS (e.g., SERS), deep RS (e.g., SORS and SESORS), RS probes designed or applied to biological/biomedical applications;
- Applications from biochemical studies to in vivo studies, from cells and tissues to biofluids; and
- Biostatistical and chemometric tools

Guest Editors

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Deadline for manuscript submissions

closed (20 September 2021)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/53342

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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