

Special Issue

Emerging Spectroscopic Detection and Analytical Methods for Plant and Animal Analysis

Message from the Guest Editor

Advances in optics, physics, spectroscopy, and mathematics have prompted a wide range of novel applications in different fields of biology and chemistry. In particular, the utilization of near-infrared spectroscopy (NIR), mid-infrared spectroscopy (MIR), Raman spectroscopy, and hyperspectral imaging has been the backbone of the so-called high-throughput analytical methods. The advances in machine learning, new algorithms, etc. have boosted the incorporation of these techniques in many fields of research (phenotyping, functionality, etc.). In this Special Issue titled “Emerging Spectroscopic Detection and Analytical Methods for Plant and Animal Analysis”, we welcome original research articles, review articles, innovative protocols, and reports on these topics. This Special Issue seeks high-quality works and topics focusing on the latest novel applications of NIR, MIR, and Raman spectroscopy, as well as hyperspectral imaging.

Keywords

- near-infrared
- hyperspectral
- image
- mid-infrared
- Raman
- big data
- multivariate data analysis
- machine learning

Guest Editor

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closed (31 May 2022)



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About the Journal

Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

Editor-in-Chief

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