



Applications of Optical Spectroscopy in Plant Sciences

Guest Editors:

Dr. Ana M. Cavaco

Dr. Andrei B. Utkin

Dr. Jorge Marques da Silva

Dr. Rui Guerra

Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editors

Dear Colleagues,

Currently, there are many non-invasive technologies applied to monitoring plants under various conditions, stemming from the development of optical spectroscopy techniques. These are implemented in devices with different functionalities and hardware, assisted by the increasingly accessible computing power and machine learning techniques.

In this Special Issue, we invite submissions exploring the development and applications of different forms of optical spectroscopy in plants, namely, visible/near infrared (spectral, multispectral, and hyperspectral), fluorescence (e.g., laser-induced fluorescence) and Raman. Contributions can focus on the development of different spectroscopic systems, applications performed with commercial devices for the monitoring of plants' responses under specific conditions, or integrated monitoring systems. Survey papers and reviews are also welcomed.

Dr. Ana M. Cavaco

Dr. Andrei B. Utkin

Dr. Jorge Marques da Silva

Dr. Rui Guerra

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)