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Plant Biospectroscopy for Stress Detection

Guest Editors:

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Deadline for manuscript submissions:
closed (15 September 2022)

Message from the Guest Editors

Nutrient/mineral deficiency and/or toxicity, along with other abiotic stresses, plays an important role in the performance of plants in their natural, uncultivated habitats and agricultural environments. Nutrient/mineral deficiency and/or toxicity may result in changes in growth patterns and decreased fertility and/or productivity as a consequence of disturbed physiological and metabolic processes.

Leaves are characterized by a spatial heterogeneity of the photosynthetic performance, which reflects metabolic differences in different cells. Powerful, non-invasive optical tools to resolve spatial heterogeneity are spectral reflectance spectroscopy at well-defined wavelengths in the visible and infrared range and blue/green and red/far-red fluorescence imaging. This Special Issue will focus on the exploitation of the UV-induced blue-green fluorescence and the VIS-induced chlorophyll fluorescence imaging in nutrient/mineral stress. To retrieve robust and reliable quantitative information from the images and coupling this with physiological and structural parameters, research papers combining these disciplines will be welcome.

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Editor-in-Chief

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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