



Remote Sensing for Estimating Leaf Chlorophyll Content in Plants

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Message from the Guest Editors

Dear colleagues,

Quantifying chlorophyll content in plants from local to global scales is vital for forest management and precision agriculture as well as for understanding ecohydrology, plant carbon budget, and the response of plants to climate change and other stress conditions across diverse plant ecosystems. Remote sensing offers a means of monitoring and mapping plant chlorophyll content over large geographical areas at various spatial and temporal scales.

With this Special Issue, we will compiled state-of-art research to address various remote sensing and modeling techniques for the retrieval of leaf and canopy chlorophyll content across various ecosystems. We welcome papers that address chlorophyll content retrieval methods using non-parametric regression models, such as machine learning and AI; understanding the link between 3D plant structural parameters and chlorophyll content quantification; real-time estimation of chlorophyll content; leaf and canopy level chlorophyll content retrieval using radiative transfer models; remote sensing data and model fusion to overcome challenges of mapping chlorophyll content.





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