



## Quantifying and Validating Remote Sensing Measurements of Chlorophyll Fluorescence

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Deadline for manuscript  
submissions:

**closed (31 December 2018)**

### Message from the Guest Editors

At the canopy and ecosystem scale, the remote sensing of solar-induced (chlorophyll) fluorescence (SIF) has provided new insights into fluorescence dynamics across landscapes and plant types, as well as bringing new challenges. The selection of the Fluorescence Explorer (FLEX) as the next European Space Agency's Explorer 8 mission has stimulated new research at all scales: the leaf, canopy, ecosystem, and global. It has also stimulated new physically- and process-based models to describe the radiative transfer processes and magnitudes related to the linked energy pathways for fluorescence, reflectance, and thermal vegetation properties.

Papers are welcome that address: fluorescence retrieval methods; methods to quantify and to validate remotely acquired dynamic (diurnal and seasonal) fluorescence observations; improved understanding about the links between fluorescence and photochemistry; new datasets offered for community evaluations; and model simulations that provide new approaches and/or insights. Discouraged are papers primarily describing sensor systems or unvalidated, qualitative mapping observations.





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