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Employment

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Ecosystem processes (INAR Forest Sciences)

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Forest Ecology and Management

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Research outputs

Simulation-Based Evaluation of the Estimation Methods of Far-Red Solar-Induced Chlorophyll Fluorescence Escape Probability in Discontinuous Forest Canopies

Liu, W., Luo, S., Lu, X., Atherton, J. & Gastellu-Etchegorry, J-P., 2020, In : Remote Sensing. 12, 23

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Simulating solar-induced chlorophyll fluorescence in a boreal forest stand reconstructed from terrestrial laser scanning measurements

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Nocturnal Light Emitting Diode Induced Fluorescence (LEDIF): A new technique to measure the chlorophyll a fluorescence emission spectral distribution of plant canopies in situ

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A mechanistic model of winter stem diameter dynamics reveals the time constant of diameter changes and the elastic modulus across tissues and species

Lindfors, L., Atherton, J., Riikonen, A. & Holttä, T., 15 Jul 2019, In : Agricultural and Forest Meteorology. 272, p. 20-29 10 p.

Leaf-Level Spectral Fluorescence Measurements: Comparing Methodologies for Broadleaves and Needles

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When the sun never sets: daily changes in pigment composition in three subarctic woody plants during the summer solstice

Fernández-Marín, B., Atherton, J., Olascoaga, B., Kolari, P., Porcar Castell, A. & García-Plazaola, J. I., Apr 2018, In : Trees : Structure and Function. 32, 2, p. 615-630 16 p.

Drone Measurements of Solar-Induced Chlorophyll Fluorescence Acquired with a Low-Weight DFOV Spectrometer System

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Investigating Forest Photosynthetic Response to Elevated CO₂ Using UAV-Based Measurements of Solar Induced Fluorescence

Maseyk, K., Atherton, J., Thomas, R., Wood, K., Tausz-Posch, S., MacArthur, A., Porcar-Castell, A. & Tausz, M., 2018, *IGARSS 2018: 2018 IEEE International Geoscience and Remote Sensing Symposium*. IEEE, p. 8830-8833 4 p. (IEEE International Symposium on Geoscience and Remote Sensing IGARSS).

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Atherton, J., Olascoaga, B., Alonso, L. & Porcar-Castell, A., 14 Mar 2017, In : Frontiers in plant science. 8, 14 p., 309.

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A comparison of methods to estimate photosynthetic light absorption in leaves with contrasting morphology

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Using Spectral Chlorophyll Fluorescence and the Photochemical Reflectance Index to Predict Physiological Dynamics

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MEASUREMENT AND MODELLING OF PHYSIOLOGICAL LEAF OPTICAL DYNAMICS

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