

Albert Porcar-Castell

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

2,333
citations

25
h-index

48
g-index

60
ext. papers

2,907
ext. citations

6.5
avg, IF

4.9
L-index

#	Paper	IF	Citations
56	Linking chlorophyll a fluorescence to photosynthesis for remote sensing applications: mechanisms and challenges. <i>Journal of Experimental Botany</i> , 2014 , 65, 4065-95	7	532
55	OCO-2 advances photosynthesis observation from space via solar-induced chlorophyll fluorescence. <i>Science</i> , 2017 , 358,	33.3	284
54	PRI assessment of long-term changes in carotenoids/chlorophyll ratio and short-term changes in de-epoxidation state of the xanthophyll cycle. <i>International Journal of Remote Sensing</i> , 2009 , 30, 4443-4455	2.1	174
53	Physiology of the seasonal relationship between the photochemical reflectance index and photosynthetic light use efficiency. <i>Oecologia</i> , 2012 , 170, 313-23	2.9	107
52	A high-resolution portrait of the annual dynamics of photochemical and non-photochemical quenching in needles of <i>Pinus sylvestris</i> . <i>Physiologia Plantarum</i> , 2011 , 143, 139-53	4.6	89
51	Thermal energy dissipation and xanthophyll cycles beyond the Arabidopsis model. <i>Photosynthesis Research</i> , 2012 , 113, 89-103	3.7	78
50	Interpreting canopy development and physiology using a European phenology camera network at flux sites. <i>Biogeosciences</i> , 2015 , 12, 5995-6015	4.6	77
49	A new monitoring PAM fluorometer (MONI-PAM) to study the short- and long-term acclimation of photosystem II in field conditions. <i>Photosynthesis Research</i> , 2008 , 96, 173-9	3.7	69
48	Estimating leaf mass per area and equivalent water thickness based on leaf optical properties: Potential and limitations of physical modeling and machine learning. <i>Remote Sensing of Environment</i> , 2019 , 231, 110959	13.2	55
47	Reduction of structural impacts and distinction of photosynthetic pathways in a global estimation of GPP from space-borne solar-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2020 , 240, 111722	13.2	47
46	EUROSPEC: at the interface between remote-sensing and ecosystem CO ₂ flux measurements in Europe. <i>Biogeosciences</i> , 2015 , 12, 6103-6124	4.6	40
45	Field and controlled environment measurements show strong seasonal acclimation in photosynthesis and respiration potential in boreal Scots pine. <i>Frontiers in Plant Science</i> , 2014 , 5, 717	6.2	39
44	Using spectral chlorophyll fluorescence and the photochemical reflectance index to predict physiological dynamics. <i>Remote Sensing of Environment</i> , 2016 , 176, 17-30	13.2	38
43	Seasonal variation in boreal pine forest albedo and effects of canopy snow on forest reflectance. <i>Agricultural and Forest Meteorology</i> , 2012 , 164, 53-60	5.8	38
42	Detecting Inter-Annual Variations in the Phenology of Evergreen Conifers Using Long-Term MODIS Vegetation Index Time Series. <i>Remote Sensing</i> , 2017 , 9, 49	5	37
41	Seasonal acclimation of photosystem II in <i>Pinus sylvestris</i> . II. Using the rate constants of sustained thermal energy dissipation and photochemistry to study the effect of the light environment. <i>Tree Physiology</i> , 2008 , 28, 1483-91	4.2	37
40	Disentangling Changes in the Spectral Shape of Chlorophyll Fluorescence: Implications for Remote Sensing of Photosynthesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 1491-1507	3.7	35

39	The handbook for standardized field and laboratory measurements in terrestrial climate change experiments and observational studies (ClimEx). <i>Methods in Ecology and Evolution</i> , 2020 , 11, 22-37	7.7	35
38	Compensation of Oxygen Transmittance Effects for Proximal Sensing Retrieval of Canopy-Leaving Sun-Induced Chlorophyll Fluorescence. <i>Remote Sensing</i> , 2018 , 10, 1551	5	30
37	A temperature-controlled spectrometer system for continuous and unattended measurements of canopy spectral radiance and reflectance. <i>International Journal of Remote Sensing</i> , 2014 , 35, 1769-1785	3.1	28
36	Dynamics of the energy flow through photosystem II under changing light conditions: a model approach. <i>Functional Plant Biology</i> , 2006 , 33, 229-239	2.7	28
35	Dynamic response of plant chlorophyll fluorescence to light, water and nutrient availability. <i>Functional Plant Biology</i> , 2015 , 42, 746-757	2.7	27
34	Onset of photosynthesis in spring speeds up monoterpene synthesis and leads to emission bursts. <i>Plant, Cell and Environment</i> , 2015 , 38, 2299-312	8.4	26
33	Solar eclipse demonstrating the importance of photochemistry in new particle formation. <i>Scientific Reports</i> , 2017 , 7, 45707	4.9	25
32	Tree variables related to growth response and acclimation of advance regeneration of Norway spruce and other coniferous species after release. <i>Forest Ecology and Management</i> , 2007 , 250, 56-63	3.9	25
31	Improving Estimates of Gross Primary Productivity by Assimilating Solar-Induced Fluorescence Satellite Retrievals in a Terrestrial Biosphere Model Using a Process-Based SIF Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3281-3306	3.7	23
30	Spatial Variation of Leaf Optical Properties in a Boreal Forest Is Influenced by Species and Light Environment. <i>Frontiers in Plant Science</i> , 2017 , 8, 309	6.2	23
29	Seasonal acclimation of photosystem II in <i>Pinus sylvestris</i> . I. Estimating the rate constants of sustained thermal energy dissipation and photochemistry. <i>Tree Physiology</i> , 2008 , 28, 1475-82	4.2	23
28	Simulating solar-induced chlorophyll fluorescence in a boreal forest stand reconstructed from terrestrial laser scanning measurements. <i>Remote Sensing of Environment</i> , 2019 , 232, 111274	13.2	20
27	Diurnal and Seasonal Solar Induced Chlorophyll Fluorescence and Photosynthesis in a Boreal Scots Pine Canopy. <i>Remote Sensing</i> , 2019 , 11, 273	5	19
26	Chlorophyll a fluorescence illuminates a path connecting plant molecular biology to Earth-system science. <i>Nature Plants</i> , 2021 , 7, 998-1009	11.5	18
25	Cavitation induced by a surfactant leads to a transient release of water stress and subsequent Sun away Symbolism in Scots pine (<i>Pinus sylvestris</i>) seedlings. <i>Journal of Experimental Botany</i> , 2012 , 63, 1057-67	7.67	16
24	Modelling photosynthesis in highly dynamic environments: the case of sunflecks. <i>Tree Physiology</i> , 2012 , 32, 1062-5	4.2	16
23	Assessing bi-directional effects on the diurnal cycle of measured solar-induced chlorophyll fluorescence in crop canopies. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108147	5.8	16
22	Sustained Nonphotochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2005-2020	3.7	15

21	Warmer spring alleviated the impacts of 2018 European summer heatwave and drought on vegetation photosynthesis. <i>Agricultural and Forest Meteorology</i> , 2020 , 295, 108195	5.8	13
20	UV-screening and springtime recovery of photosynthetic capacity in leaves of <i>Vaccinium vitis-idaea</i> above and below the snow pack. <i>Plant Physiology and Biochemistry</i> , 2019 , 134, 40-52	5.4	13
19	A comparison of methods to estimate photosynthetic light absorption in leaves with contrasting morphology. <i>Tree Physiology</i> , 2016 , 36, 368-79	4.2	12
18	Interpreting canopy development and physiology using the EUROPhen camera network at flux sites		12
17	Tracking the Seasonal Dynamics of Boreal Forest Photosynthesis Using EO-1 Hyperion Reflectance: Sensitivity to Structural and Illumination Effects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 5105-5116	8.1	11
16	Structural and photosynthetic dynamics mediate the response of SIF to water stress in a potato crop. <i>Remote Sensing of Environment</i> , 2021 , 263, 112555	13.2	11
15	Leaf-Level Spectral Fluorescence Measurements: Comparing Methodologies for Broadleaves and Needles. <i>Remote Sensing</i> , 2019 , 11, 532	5	10
14	Dynamics of leaf gas exchange, chlorophyll fluorescence and stem diameter changes during freezing and thawing of Scots pine seedlings. <i>Tree Physiology</i> , 2015 , 35, 1314-24	4.2	9
13	When the sun never sets: daily changes in pigment composition in three subarctic woody plants during the summer solstice. <i>Trees - Structure and Function</i> , 2018 , 32, 615-630	2.6	9
12	Nocturnal Light Emitting Diode Induced Fluorescence (LEDIF): A new technique to measure the chlorophyll a fluorescence emission spectral distribution of plant canopies in situ. <i>Remote Sensing of Environment</i> , 2019 , 231, 111137	13.2	7
11	EUROSPEC: at the interface between remote sensing and ecosystem CO ₂ flux measurements in Europe		7
10	Do all chlorophyll fluorescence emission wavelengths capture the spring recovery of photosynthesis in boreal evergreen foliage?. <i>Plant, Cell and Environment</i> , 2019 , 42, 3264-3279	8.4	6
9	Heatwave breaks down the linearity between sun-induced fluorescence and gross primary production.. <i>New Phytologist</i> , 2021 ,	9.8	6
8	Combined dynamics of the 500-600nm leaf absorption and chlorophyll fluorescence changes in vivo: Evidence for the multifunctional energy quenching role of xanthophylls. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021 , 1862, 148351	4.6	5
7	Drone Measurements of Solar-Induced Chlorophyll Fluorescence Acquired with a Low-Weight DFOV Spectrometer System 2018 ,		4
6	UPSCALING OF SOLAR INDUCED CHLOROPHYLL FLUORESCENCE FROM LEAF TO CANOPY USING THE DART MODEL AND A REALISTIC 3D FOREST SCENE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives,XLII-3/W3</i> , 107-111	2.5	3
5	Processes in Living Structures 2013 , 43-223		2
4	On the Estimation of the Leaf Angle Distribution from Drone Based Photogrammetry 2020 ,		1

3	2018,	1
2	Sustained Non-Photochemical Quenching Shapes the Seasonal Pattern of Solar-Induced Fluorescence at a High-Elevation Evergreen Forest	1
1	What Does the NDVI Really Tell Us About Crops? Insight from Proximal Spectral Field Sensors. <i>Springer Optimization and Its Applications</i> , 2022 , 251-265	0.4