

Alexander Damm

List of Publications by Year in descending order

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74
papers

4,448
citations

117453

34
h-index

114278

63
g-index

76
all docs

76
docs citations

76
times ranked

4142
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining near-infrared radiance of vegetation and fluorescence spectroscopy to detect effects of abiotic changes and stresses. <i>Remote Sensing of Environment</i> , 2022, 270, 112856.	4.6	39
2	Mapping the spatial distribution of NO ₂ with in situ and remote sensing instruments during the Munich NO ₂ imaging campaign. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1609-1629.	1.2	1
3	Satellite data reveal differential responses of Swiss forests to unprecedented 2018 drought. <i>Global Change Biology</i> , 2022, 28, 2956-2978.	4.2	28
4	Response times of remote sensing measured sun-induced chlorophyll fluorescence, surface temperature and vegetation indices to evolving soil water limitation in a crop canopy. <i>Remote Sensing of Environment</i> , 2022, 273, 112957.	4.6	22
5	Towards consistent assessments of in situ radiometric measurements for the validation of fluorescence satellite missions. <i>Remote Sensing of Environment</i> , 2022, 274, 112984.	4.6	13
6	The relationship between ecosystem services and human modification displays decoupling across global delta systems. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	11
7	Insights for the Partitioning of Ecosystem Evaporation and Transpiration in Shortâ€Statured Croplands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	9
8	On the seasonal relation of sun-induced chlorophyll fluorescence and transpiration in a temperate mixed forest. <i>Agricultural and Forest Meteorology</i> , 2021, 304-305, 108386.	1.9	10
9	The PRISMA imaging spectroscopy mission: overview and first performance analysis. <i>Remote Sensing of Environment</i> , 2021, 262, 112499.	4.6	121
10	Remote sensing of sun-induced chlorophyll-a fluorescence in inland and coastal waters: Current state and future prospects. <i>Remote Sensing of Environment</i> , 2021, 262, 112482.	4.6	30
11	Downscaling of far-red solar-induced chlorophyll fluorescence of different crops from canopy to leaf level using a diurnal data set acquired by the airborne imaging spectrometer HyPlant. <i>Remote Sensing of Environment</i> , 2021, 264, 112609.	4.6	24
12	Root hydraulic redistribution underlies the insensitivity of soil respiration to combined heat and drought. <i>Applied Soil Ecology</i> , 2021, 167, 104155.	2.1	4
13	A First Assessment of the 2018 European Drought Impact on Ecosystem Evapotranspiration. <i>Remote Sensing</i> , 2021, 13, 16.	1.8	12
14	Optical Closure of Remote Sensing Reflectance Using Automated Hyperspectral Profiler Data. , 2021, , .		0
15	Estimating near-infrared reflectance of vegetation from hyperspectral data. <i>Remote Sensing of Environment</i> , 2021, 267, 112723.	4.6	24
16	Partitioning evapotranspiration with concurrent eddy covariance measurements in a mixed forest. <i>Agricultural and Forest Meteorology</i> , 2020, 280, 107786.	1.9	39
17	Remote sensing of forest gas exchange: Considerations derived from a tomographic perspective. <i>Global Change Biology</i> , 2020, 26, 2717-2727.	4.2	17
18	A first assessment of the impact of the extreme 2018 summer drought on Central European forests. <i>Basic and Applied Ecology</i> , 2020, 45, 86-103.	1.2	482

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19	Downscaling of solar-induced chlorophyll fluorescence from canopy level to photosystem level using a random forest model. <i>Remote Sensing of Environment</i> , 2019, 231, 110772.	4.6	109
20	Remote sensing of solar-induced chlorophyll fluorescence (SIF) in vegetation: 50 years of progress. <i>Remote Sensing of Environment</i> , 2019, 231, 111177.	4.6	372
21	Hyplant-Derived Sun-Induced Fluorescence – A New Opportunity to Disentangle Complex Vegetation Signals from Diverse Vegetation Types. <i>Remote Sensing</i> , 2019, 11, 1691.	1.8	18
22	Sun-Induced Chlorophyll Fluorescence III: Benchmarking Retrieval Methods and Sensor Characteristics for Proximal Sensing. <i>Remote Sensing</i> , 2019, 11, 962.	1.8	57
23	Sun-Induced Chlorophyll Fluorescence II: Review of Passive Measurement Setups, Protocols, and Their Application at the Leaf to Canopy Level. <i>Remote Sensing</i> , 2019, 11, 927.	1.8	61
24	Mapping the Irradiance Field of a Single Tree: Quantifying Vegetation-Induced Adjacency Effects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 4994-5011.	2.7	11
25	Ecosystem service change caused by climatological and non-climatological drivers: a Swiss case study. <i>Ecological Applications</i> , 2019, 29, e01901.	1.8	31
26	The High-Performance Airborne Imaging Spectrometer HyPlant – From Raw Images to Top-of-Canopy Reflectance and Fluorescence Products: Introduction of an Automatized Processing Chain. <i>Remote Sensing</i> , 2019, 11, 2760.	1.8	53
27	Using reflectance to explain vegetation biochemical and structural effects on sun-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2019, 231, 110996.	4.6	52
28	Variability of sun-induced chlorophyll fluorescence according to stand age-related processes in a managed loblolly pine forest. <i>Global Change Biology</i> , 2018, 24, 2980-2996.	4.2	29
29	Spatio-temporal trends and trade-offs in ecosystem services: An Earth observation based assessment for Switzerland between 2004 and 2014. <i>Ecological Indicators</i> , 2018, 89, 828-839.	2.6	50
30	Remote sensing of plant-water relations: An overview and future perspectives. <i>Journal of Plant Physiology</i> , 2018, 227, 3-19.	1.6	70
31	Advancing retrievals of surface reflectance and vegetation indices over forest ecosystems by combining imaging spectroscopy, digital object models, and 3D canopy modelling. <i>Remote Sensing of Environment</i> , 2018, 204, 583-595.	4.6	18
32	Towards Advanced Retrievals of Plant Transpiration Using Sun-Induced Chlorophyll Fluorescence: First Considerations. , 2018, , .		2
33	Recent Progress and Developments in Imaging Spectroscopy. <i>Remote Sensing</i> , 2018, 10, 1497.	1.8	2
34	Effect of environmental conditions on sun-induced fluorescence in a mixed forest and a cropland. <i>Remote Sensing of Environment</i> , 2018, 219, 310-323.	4.6	77
35	From instantaneous to continuous: Using imaging spectroscopy and in situ data to map two productivity-related ecosystem services. <i>Ecological Indicators</i> , 2017, 82, 409-419.	2.6	11
36	Field and Airborne Spectroscopy Cross Validation – Some Considerations. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 1117-1135.	2.3	43

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37	Quantitative global mapping of terrestrial vegetation photosynthesis: The Fluorescence Explorer (FLEX) mission. , 2017, , .		1
38	The 2013 FLEXâ€”US Airborne Campaign at the Parker Tract Loblolly Pine Plantation in North Carolina, USA. Remote Sensing, 2017, 9, 612.	1.8	27
39	Tree Density and Forest Productivity in a Heterogeneous Alpine Environment: Insights from Airborne Laser Scanning and Imaging Spectroscopy. Forests, 2017, 8, 212.	0.9	5
40	Cross-Comparison of Albedo Products for Glacier Surfaces Derived from Airborne and Satellite (Sentinel-2 and Landsat 8) Optical Data. Remote Sensing, 2017, 9, 110.	1.8	74
41	Combining Sun-Induced Chlorophyll Fluorescence and Photochemical Reflectance Index Improves Diurnal Modeling of Gross Primary Productivity. Remote Sensing, 2016, 8, 574.	1.8	44
42	An Algorithm for In-Flight Spectral Calibration of Imaging Spectrometers. Remote Sensing, 2016, 8, 1017.	1.8	23
43	Sunâ€”induced chlorophyll fluorescence from highâ€”resolution imaging spectroscopy data to quantify spatioâ€”temporal patterns of photosynthetic function in crop canopies. Plant, Cell and Environment, 2016, 39, 1500-1512.	2.8	92
44	Airborne based spectroscopy of red and far-red sun-induced chlorophyll fluorescence: Implications for improved estimates of gross primary productivity. Remote Sensing of Environment, 2016, 184, 654-667.	4.6	84
45	Red and far red Sunâ€”induced chlorophyll fluorescence as a measure of plant photosynthesis. Geophysical Research Letters, 2015, 42, 1632-1639.	1.5	171
46	Simulations of chlorophyll fluorescence incorporated into the <sc>C</sc>ommunity <sc>L</sc>and <sc>M</sc>odel version 4. Global Change Biology, 2015, 21, 3469-3477.	4.2	95
47	Sunâ€”induced fluorescence â€” a new probe of photosynthesis: First maps from the imaging spectrometer <i>HyPlant</i>. Global Change Biology, 2015, 21, 4673-4684.	4.2	213
48	Estimation of Alpine Forest Structural Variables from Imaging Spectrometer Data. Remote Sensing, 2015, 7, 16315-16338.	1.8	12
49	Mapping Alpine Aboveground Biomass From Imaging Spectrometer Data: A Comparison of Two Approaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3123-3139.	2.3	6
50	Potential of the TROPOspheric Monitoring Instrument (TROPOMI) onboard the Sentinel-5 Precursor for the monitoring of terrestrial chlorophyll fluorescence. Atmospheric Measurement Techniques, 2015, 8, 1337-1352.	1.2	152
51	Far-red sun-induced chlorophyll fluorescence shows ecosystem-specific relationships to gross primary production: An assessment based on observational and modeling approaches. Remote Sensing of Environment, 2015, 166, 91-105.	4.6	263
52	Imaging spectroscopy to assess the composition of ice surface materials and their impact on glacier mass balance. Remote Sensing of Environment, 2015, 168, 388-402.	4.6	33
53	Advanced radiometry measurements and Earth science applications with the Airborne Prism Experiment (APEX). Remote Sensing of Environment, 2015, 158, 207-219.	4.6	154
54	Impact of varying irradiance on vegetation indices and chlorophyll fluorescence derived from spectroscopy data. Remote Sensing of Environment, 2015, 156, 202-215.	4.6	98

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55	Using imaging spectroscopy to predict above-ground plant biomass in alpine grasslands grazed by large ungulates. <i>Journal of Vegetation Science</i> , 2015, 26, 175-190.	1.1	29
56	Characterization of crop vitality and resource use efficiency by means of combining imaging spectroscopy based plant traits. , 2014, , .		2
57	Airborne based spectroscopy to measure sun-induced chlorophyll fluorescence. , 2014, , .		0
58	FLD-based retrieval of sun-induced chlorophyll fluorescence from medium spectral resolution airborne spectroscopy data. <i>Remote Sensing of Environment</i> , 2014, 147, 256-266.	4.6	78
59	Correction of Reflectance Anisotropy Effects of Vegetation on Airborne Spectroscopy Data and Derived Products. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2014, 52, 616-627.	2.7	45
60	Continuous Fields From Imaging Spectrometer Data for Ecosystem Parameter Mapping and Their Potential for Animal Habitat Assessment in Alpine Regions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 2600-2610.	2.3	7
61	Mapping ecosystem services using imaging spectroscopy data. , 2014, , .		1
62	Experimental Evaluation of Sentinel-2 Spectral Response Functions for NDVI Time-Series Continuity. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1336-1348.	2.7	101
63	A Bayesian object-based approach for estimating vegetation biophysical and biochemical variables from APEX at-sensor radiance data. <i>Remote Sensing of Environment</i> , 2013, 139, 6-17.	4.6	52
64	Ecosystem parameter mapping in Swiss National Park based on a continuous fields approach. , 2013, , .		0
65	High-resolution NO ₂ remote sensing from the Airborne Prism Experiment (APEX) imaging spectrometer. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2211-2225.	1.2	52
66	Evaluation of gross primary production (GPP) variability over several ecosystems in Switzerland using sun-induced chlorophyll fluorescence derived from APEX data. , 2012, , .		3
67	Modeling the impact of spectral sensor configurations on the FLD retrieval accuracy of sun-induced chlorophyll fluorescence. <i>Remote Sensing of Environment</i> , 2011, 115, 1882-1892.	4.6	142
68	Remote sensing of sun-induced fluorescence to improve modeling of diurnal courses of gross primary production (GPP). <i>Global Change Biology</i> , 2010, 16, 171-186.	4.2	246
69	APEX - current status, performance and validation concept. , 2010, , .		21
70	Sensing of Photosynthetic Activity of Crops. , 2010, , 87-99.		7
71	CEFLES2: the remote sensing component to quantify photosynthetic efficiency from the leaf to the region by measuring sun-induced fluorescence in the oxygen absorption bands. <i>Biogeosciences</i> , 2009, 6, 1181-1198.	1.3	115
72	A method to detect and correct single-band missing pixels in Landsat TM and ETM+ data. <i>Computers and Geosciences</i> , 2008, 34, 445-455.	2.0	4

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73	Correcting brightness gradients in hyperspectral data from urban areas. Remote Sensing of Environment, 2006, 101, 25-37.	4.6	44
74	“Flex 2018”Cruise: an opportunity to assess phytoplankton chlorophyll fluorescence retrieval at different observative scales. Proceedings E Report, 0, , 688-697.	0.0	0