Lei Fan

List of Publications by Year
in descending order

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42 papers	2,132 citations	361045 20 h-index	360668 35 g-index
42 all docs	42 docs citations	42 times ranked	2555 citing authors

#	Article	IF	Citations
1	Bidirectional droughtâ€related canopy dynamics across pantropical forests: a satelliteâ€based statistical analysis. Remote Sensing in Ecology and Conservation, 2022, 8, 72-91.	2.2	6
2	Tropical tall forests are more sensitive and vulnerable to drought than short forests. Global Change Biology, 2022, 28, 1583-1595.	4.2	20
3	A new SMAP soil moisture and vegetation optical depth product (SMAP-IB): Algorithm, assessment and inter-comparison. Remote Sensing of Environment, 2022, 271, 112921.	4.6	46
4	Monitoring the Reduced Resilience of Forests in Southwest China Using Long-Term Remote Sensing Data. Remote Sensing, 2022, 14, 32.	1.8	7
5	Estimating High-Resolution Soil Moisture Over Mountainous Regions Using Remotely-Sensed Multispectral and Topographic Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3637-3649.	2.3	2
6	Large loss and rapid recovery of vegetation cover and aboveground biomass over forest areas in Australia during 2019â€“2020. Remote Sensing of Environment, 2022, 278, 113087.	4.6	26
7	Climatic and biotic factors influencing regional declines and recovery of tropical forest biomass from the 2015/16 El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
8	Global-scale assessment and inter-comparison of recently developed/reprocessed microwave satellite vegetation optical depth products. Remote Sensing of Environment, 2021, 253, 112208.	4.6	58
9	SMOS-IC data record of soil moisture and L-VOD: Historical development, applications and perspectives. Remote Sensing of Environment, 2021, 254, 112238.	4.6	124
10	Carbon loss from forest degradation exceeds that from deforestation in the Brazilian Amazon. Nature Climate Change, 2021, 11, 442-448.	8.1	166
11	Variations of carbon allocation and turnover time across tropical forests. Global Ecology and Biogeography, 2021, 30, 1271-1285.	2.7	12
12	Vapor Pressure Deficit and Sunlight Explain Seasonality of Leaf Phenology and Photosynthesis Across Amazonian Evergreen Broadleaved Forest. Global Biogeochemical Cycles, 2021, 35, e2020GB006893.	1.9	31
13	New Forest Aboveground Biomass Maps of China Integrating Multiple Datasets. Remote Sensing, 2021, 13, 2892.	1.8	10
14	Annual Maps of Forests in Australia from Analyses of Microwave and Optical Images with FAO Forest Definition. Journal of Remote Sensing, 2021, 2021, .	3.2	3
15	An alternative AMSR2 vegetation optical depth for monitoring vegetation at large scales. Remote Sensing of Environment, 2021, 263, 112556.	4.6	23
16	ASCAT IB: A radar-based vegetation optical depth retrieved from the ASCAT scatterometer satellite. Remote Sensing of Environment, 2021, 264, 112587.	4.6	19
17	Higher plant photosynthetic capability in autumn responding to low atmospheric vapor pressure deficit. Innovation(China), 2021, 2, 100163.	5.2	6
18	A comprehensive framework for seasonal controls of leaf abscission and productivity in evergreen broadleaved tropical and subtropical forests. Innovation(China), 2021, 2, 100154.	5.2	19

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19	A first assessment of satellite and reanalysis estimates of surface and root-zone soil moisture over the permafrost region of Qinghai-Tibet Plateau. Remote Sensing of Environment, 2021, 265, 112666.	4.6	64
20	First Retrievals of ASCAT IB VOD (Vegetation Optical Depth) at Global Scale. , 2021, , .		0
21	Alternate Inrae-Bordeaux VOD Indices from SMOS, AMSR2 and ASCAT: Overview of Recent Developments. , 2021, , .		1
22	Interannual Variability of Biomass (SMOS Vegetation Optical Depth) Over the Contiguous United States. , 2021, , .		1
23	Global Scale IB AMSR2 Vegetation Optical Depth at X-Band. , 2021, , .		0
24	Mapping a Paddy Rice Area in a Cloudy and Rainy Region Using Spatiotemporal Data Fusion and a Phenology-Based Algorithm. Remote Sensing, 2021, 13, 4400.	1.8	6
25	A consistent record of vegetation optical depth retrieved from the AMSR-E and AMSR2 X-band observations. International Journal of Applied Earth Observation and Geoinformation, 2021, 105, 102609.	1.4	9
26	Forest management in southern China generates short term extensive carbon sequestration. Nature Communications, 2020, 11, 129.	5.8	259
27	Compared performances of SMOS-IC soil moisture and vegetation optical depth retrievals based on Tau-Omega and Two-Stream microwave emission models. Remote Sensing of Environment, 2020, 236, 111502.	4.6	61
28	Global Monitoring of the Vegetation Dynamics from the Vegetation Optical Depth (VOD): A Review. Remote Sensing, 2020, 12, 2915.	1.8	77
29	Asymmetric responses of ecosystem productivity to rainfall anomalies vary inversely with mean annual rainfall over the conterminous United States. Global Change Biology, 2020, 26, 6959-6973.	4.2	31
30	Direct and seasonal legacy effects of the 2018 heat wave and drought on European ecosystem productivity. Science Advances, 2020, 6, eaba2724.	4.7	229
31	Recent divergence in the contributions of tropical and boreal forests to the terrestrial carbon sink. Nature Ecology and Evolution, 2020, 4, 202-209.	3.4	93
32	Tropical forests did not recover from the strong 2015â€“2016 El NiÃ±o event. Science Advances, 2020, 6, eaay4603.	4.7	127
33	Development and Validation of the SMOS-IC Version 2 (V2) Soil Moisture Product. , 2020, , .		3
34	Vegetation Optical Depth Retrieval from AMSR-E/AMSR2 Observations Using L-MEB Inversion. , 2020, , .		0
35	New Ascat Vegetation Optical Depth (IB-VOD) Retrievals Over Africa. , 2020, , .		0
36	Satellite-observed pantropical carbon dynamics. Nature Plants, 2019, 5, 944-951.	4.7	141

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37	Mapping Soil Moisture at a High Resolution over Mountainous Regions by Integrating In Situ Measurements, Topography Data, and MODIS Land Surface Temperatures. Remote Sensing, 2019, 11, 656.	1.8	9
38	Assessment and inter-comparison of recently developed/reprocessed microwave satellite soil moisture products using ISMN ground-based measurements. Remote Sensing of Environment, 2019, 224, 289-303.	4.6	145
39	Satellite passive microwaves reveal recent climate-induced carbon losses in African drylands. Nature Ecology and Evolution, 2018, 2, 827-835.	3.4	160
40	Evaluation of microwave remote sensing for monitoring live fuel moisture content in the Mediterranean region. Remote Sensing of Environment, 2018, 205, 210-223.	4.6	75
41	Evaluation of the Airborne CASI/TASI Ts-VI Space Method for Estimating Near-Surface Soil Moisture. Remote Sensing, 2015, 7, 3114-3137.	1.8	31
42	Mapping High-Resolution Soil Moisture over Heterogeneous Cropland Using Multi-Resource Remote Sensing and Ground Observations. Remote Sensing, 2015, 7, 13273-13297.	1.8	19