Sietse O Los

List of Publications by Year
in descending order

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68 papers	7,566 citations	66343 42 h-index	91884 69 g-index
79 all docs	79 docs citations	79 times ranked	8286 citing authors

#	Article	IF	Citations
1	A Revised Land Surface Parameterization (SiB2) for Atmospheric GCMS. Part II: The Generation of Global Fields of Terrestrial Biophysical Parameters from Satellite Data. Journal of Climate, 1996, 9, 706-737.	3.2	834
2	Higher northern latitude normalized difference vegetation index and growing season trends from 1982 to 1999. International Journal of Biometeorology, 2001, 45, 184-190.	3.0	646
3	Biospheric Primary Production During an ENSO Transition. Science, 2001, 291, 2594-2597.	12.6	523
4	Comparison of Radiative and Physiological Effects of Doubled Atmospheric CO2 on Climate. Science, 1996, 271, 1402-1406.	12.6	516
5	Northern hemisphere photosynthetic trends 1982-99. Global Change Biology, 2003, 9, 1-15.	9.5	378
6	A Global 9-yr Biophysical Land Surface Dataset from NOAA AVHRR Data. Journal of Hydrometeorology, 2000, 1, 183-199.	1.9	281
7	Correction of tree ring stable carbon isotope chronologies for changes in the carbon dioxide content of the atmosphere. Geochimica Et Cosmochimica Acta, 2009, 73, 1539-1547.	3.9	244
8	The impact of diffuse sunlight on canopy lightâ€use efficiency, gross photosynthetic product and net ecosystem exchange in three forest biomes. Global Change Biology, 2007, 13, 776-787.	9.5	222
9	Sensitivity of Climate to Changes in NDVI. Journal of Climate, 2000, 13, 2277-2292.	3.2	209
10	Satellite estimates of productivity and light use efficiency in United States agriculture, 1982-98. Global Change Biology, 2002, 8, 722-735.	9.5	203
11	Mapping the land surface for global atmosphere-biosphere models: Toward continuous distributions of vegetation's functional properties. Journal of Geophysical Research, 1995, 100, 20867.	3.3	175
12	Interannual variation in global-scale net primary production: Testing model estimates. Global Biogeochemical Cycles, 1997, 11, 367-392.	4.9	151
13	Postfire response of North American boreal forest net primary productivity analyzed with satellite observations. Global Change Biology, 2003, 9, 1145-1157.	9.5	147
14	Global Interannual Variations in Sea Surface Temperature and Land Surface Vegetation, Air Temperature, and Precipitation. Journal of Climate, 2001, 14, 1535-1549.	3.2	140
15	Satellite-based identification of linked vegetation index and sea surface temperature Anomaly areas from 1982-1990 for Africa, Australia and South America. Geophysical Research Letters, 1996, 23, 729-732.	4.0	138
16	Trends in North American net primary productivity derived from satellite observations, 1982-1998. Global Biogeochemical Cycles, 2002, 16, 2-1-2-14.	4.9	133
17	A Revised Land Surface Parameterization (SiB2) for GCMS. Part III: The Greening of the Colorado State University General Circulation Model. Journal of Climate, 1996, 9, 738-763.	3.2	131
18	Ability of the land surface model ISBA-A-gs to simulate leaf area index at the global scale: Comparison with satellites products. Journal of Geophysical Research, 2006, 111, .	3.3	113

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19	A comprehensive set of benchmark tests for a land surface model of simultaneous fluxes of water and carbon at both the global and seasonal scale. Geoscientific Model Development, 2011, 4, 255-269.	3.6	112
20	A mechanism for the influence of vegetation on the response of the diurnal temperature range to changing climate. Geophysical Research Letters, 2000, 27, 3381-3384.	4.0	100
21	Satellite-derived increases in net primary productivity across North America, 1982-1998. Geophysical Research Letters, 2002, 29, 69-1-69-4.	4.0	100
22	A 1200-year multiproxy record of tree growth and summer temperature at the northern pine forest limit of Europe. Holocene, 2013, 23, 471-484.	1.7	100
23	The ISLSCP Initiative I Global Datasets: Surface Boundary Conditions and Atmospheric Forcings for Land-Atmosphere Studies. Bulletin of the American Meteorological Society, 1996, 77, 1987-2005.	3.3	99
24	Analysis of trends in fused AVHRR and MODIS NDVI data for 1982â€“2006: Indication for a CO₂ fertilization effect in global vegetation. Global Biogeochemical Cycles, 2013, 27, 318-330.	4.9	95
25	Vegetation height and cover fraction between 60Â° S and 60Â° N from ICESat GLAS data. Geoscientific Model Development, 2012, 5, 413-432.	3.6	94
26	Interactions between Vegetation and Climate: Radiative and Physiological Effects of Doubled Atmospheric CO2. Journal of Climate, 1999, 12, 309-324.	3.2	91
27	Aerosol optical depth and land surface reflectance from multiangle AATSR measurements: global validation and intersensor comparisons. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2184-2197.	6.3	90
28	Estimation of the ratio of sensor degradation between NOAA AVHRR channels 1 and 2 from monthly NDVI composites. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 206-213.	6.3	87
29	New Vegetation Albedo Parameters and Global Fields of Soil Background Albedo Derived from MODIS for Use in a Climate Model. Journal of Hydrometeorology, 2009, 10, 183-198.	1.9	87
30	Impact of leaf area index seasonality on the annual land surface evaporation in a global circulation model. Journal of Geophysical Research, 2003, 108, .	3.3	85
31	A method to convert AVHRR Normalized Difference Vegetation Index time series to a standard viewing and illumination geometry. Remote Sensing of Environment, 2005, 99, 400-411.	11.0	84
32	Coupling of Vegetation Growing Season Anomalies and Fire Activity with Hemispheric and Regional-Scale Climate Patterns in Central and East Siberia. Journal of Climate, 2007, 20, 3713-3729.	3.2	78
33	A Monte Carlo radiative transfer model of satellite waveform LiDAR. International Journal of Remote Sensing, 2010, 31, 1343-1358.	2.9	73
34	Impact of atmospheric aerosol from biomass burning on Amazon dryâ€season drought. Journal of Geophysical Research, 2009, 114, .	3.3	71
35	A global dataset of atmospheric aerosol optical depth and surface reflectance from AATSR. Remote Sensing of Environment, 2012, 116, 199-210.	11.0	66
36	An observation-based estimate of the strength of rainfall-vegetation interactions in the Sahel. Geophysical Research Letters, 2006, 33, .	4.0	63

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37	Potential gross primary productivity of terrestrial vegetation from 1982-1990. Geophysical Research Letters, 1995, 22, 2617-2620.	4.0	61
38	Influence of the Interannual Variability of Vegetation on the Surface Energy Balanceâ€"A Global Sensitivity Study. Journal of Hydrometeorology, 2002, 3, 617-629.	1.9	59
39	Simulations of global evapotranspiration using semiempirical and mechanistic schemes of plant hydrology. Global Biogeochemical Cycles, 2009, 23, .	4.9	55
40	Effect of climate on interannual variability of terrestrial CO2fluxes. Global Biogeochemical Cycles, 2002, 16, 49-1-49-12.	4.9	51
41	Improved global simulations of gross primary product based on a separate and explicit treatment of diffuse and direct sunlight. Journal of Geophysical Research, 2007, 112, .	3.3	51
42	Computationally efficient method for retrieving aerosol optical depth from ATSR-2 and AATSR data. Applied Optics, 2006, 45, 2786.	2.1	42
43	Uncertainty within satellite LiDAR estimations of vegetation and topography. International Journal of Remote Sensing, 2010, 31, 1325-1342.	2.9	40
44	Investigation of Ecological and Environmental Determinants for the Presence of Questing <I>Ixodes ricinus</I> (Acari: Ixodidae) on Gower, South Wales. Journal of Medical Entomology, 2008, 45, 314-325.	1.8	37
45	Radiative transfer modeling of direct and diffuse sunlight in a Siberian pine forest. Journal of Geophysical Research, 2005, 110, .	3.3	36
46	Spatial and temporal stability of the climatic signal in northern Fennoscandian pine treeâ€ring width and maximum density. Boreas, 2009, 38, 1-12.	2.4	33
47	Statistical Distances and Their Applications to Biophysical Parameter Estimation: Information Measures, M-Estimates, and Minimum Contrast Methods. Remote Sensing, 2013, 5, 1355-1388.	4.0	27
48	Sensitivity of a tropical montane cloud forest to climate change, present, past and future: Mt. Marsabit, N. Kenya. Quaternary Science Reviews, 2019, 218, 34-48.	3.0	26
49	Estimating forest canopy parameters from satellite waveform LiDAR by inversion of the FLIGHT three-dimensional radiative transfer model. Remote Sensing of Environment, 2017, 188, 177-189.	11.0	25
50	Slope Estimation from ICESat/GLAS. Remote Sensing, 2014, 6, 10051-10069.	4.0	23
51	Predicting the time of green up in temperate and boreal biomes. Climatic Change, 2011, 107, 277-304.	3.6	20
52	Response of vegetation to the 2003 European drought was mitigated by height. Biogeosciences, 2014, 11, 2897-2908.	3.3	17
53	Retrieval of leaf area index from MODIS surface reflectance by model inversion using different minimization criteria. Remote Sensing of Environment, 2013, 139, 257-270.	11.0	15
54	A global climate niche for giant trees. Global Change Biology, 2018, 24, 2875-2883.	9.5	15

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55	Detection of signals linked to climate change, land-cover change and climate oscillators in Tropical Montane Cloud Forests. Remote Sensing of Environment, 2021, 260, 112431.	11.0	14
56	Evaluating Prospects for Improved Forest Parameter Retrieval From Satellite LiDAR Using a Physically-Based Radiative Transfer Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 45-53.	4.9	13
57	Changes in large rainstorm magnitudeâ€“frequency over the last century in Sabah, Malaysian Borneo and their geomorphological implications. Holocene, 2013, 23, 1824-1840.	1.7	13
58	Testing gridded land precipitation data and precipitation and runoff reanalyses (1982â€“2010) between 45Â° S and 45Â° N with normalised difference vegetation index data. Hydrology and Earth System Sciences, 2015, 19, 1713-1725.	4.9	11
59	A New Characterization of the Land Surface Heterogeneity over Africa for Use in Land Surface Models. Journal of Hydrometeorology, 2011, 12, 1321-1336.	1.9	8
60	Holocene alluvial fan evolution, Schmidtâ€hammer exposureâ€age dating and paraglacial debris floods in the <scp>SE</scp> Jostedalsbreen region, southern Norway. Boreas, 2020, 49, 886-902.	2.4	8
61	Forestry Applications for Satellite Lidar Remote Sensing. Photogrammetric Engineering and Remote Sensing, 2011, 77, 271-279.	0.6	7
62	Evaluating the Simulated Seasonality of Soil Moisture with Earth Observation Data. Journal of Hydrometeorology, 2009, 10, 1548-1560.	1.9	5
63	Tree line shifts, changing vegetation assemblages and permafrost dynamics on GaldhÃ¸piggen (Jotunheimen, Norway) over the past ~4400â€‰years. Holocene, 2022, 32, 308-320.	1.7	3
64	Carbon dioxide emissions from periglacial patterned ground under changing permafrost conditions and shrub encroachment in an alpine landscape, Jotunheimen, Norway. Permafrost and Periglacial Processes, 2020, 31, 524-537.	3.4	2
65	Permafrost, thermal conditions and vegetation patterns since the mid-20th century: A remote sensing approach applied to Jotunheimen, Norway. Progress in Physical Geography, 2022, 46, 716-736.	3.2	2
66	Global atmospheric aerosol optical depth retrievals over land and ocean from AATSR. , 2009, , .		1
67	Climate, vegetation phenology and forest fires in Siberia. , 2007, , .		0
68	Using geostatistical methods to produce a spatial and temporal gridded dataset of historic river flow across Great Britain. Procedia Environmental Sciences, 2011, 7, 128-133.	1.4	0