Steven Running

List of Publications by Year
in descending order

85 papers	17,202 citations	44069 48 h-index	76900 74 g-index
86 all docs	86 docs citations	86 times ranked	17150 citing authors

#	Article	IF	Citations
1	A unified vegetation index for quantifying the terrestrial biosphere. Science Advances, 2021, 7, .	10.3	160
2	Global Upscaling of the MODIS Land Cover with Google Earth Engine and Landsat Data. , 2021, , .		0
3	Terrestrial primary productivity indicators for inclusion in the National Climate Indicators System. Climatic Change, 2020, 163, 1855-1868.	3.6	8
4	Seasonality of biological and physical systems as indicators of climatic variation and change. Climatic Change, 2020, 163, 1755-1771.	3.6	9
5	Multispectral high resolution sensor fusion for smoothing and gap-filling in the cloud. Remote Sensing of Environment, 2020, 247, 111901.	11.0	67
6	Down-Scaling Modis Vegetation Products with Landsat GAP Filled Surface Reflectance in Google Earth Engine. , 2020, , .		1
7	Terrestrial primary production for the conterminous United States derived from Landsat 30 m and <scp>MODIS</scp> 250 m. Remote Sensing in Ecology and Conservation, 2018, 4, 264-280.	4.3	98
8	Future global productivity will be affected by plant trait response to climate. Scientific Reports, 2018, 8, 2870.	3.3	95
9	Interpolation and Gap Filling of Landsat Reflectance Time Series. , 2018, , .		1
10	Global Estimation of Biophysical Variables from Google Earth Engine Platform. Remote Sensing, 2018, 10, 1167.	4.0	75
11	Decreasing net primary production due to drought and slight decreases in solar radiation in China from 2000 to 2012. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 261-278.	3.0	80
12	Improving Global Gross Primary Productivity Estimates by Computing Optimum Light Use Efficiencies Using Flux Tower Data. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2939-2951.	3.0	41
13	Quantifying water stress effect on daily light use efficiency in Mediterranean ecosystems using satellite data. International Journal of Digital Earth, 2017, 10, 623-638.	3.9	11
14	Variation in stability of elk and red deer populations with abiotic and biotic factors at the speciesâ€distribution scale. Ecology, 2016, 97, 3184-3194.	3.2	7
15	A review of remote sensing based actual evapotranspiration estimation. Wiley Interdisciplinary Reviews: Water, 2016, 3, 834-853.	6.5	380
16	European land CO2 sink influenced by NAO and East-Atlantic Pattern coupling. Nature Communications, 2016, 7, 10315.	12.8	74
17	Inside Cover Image, Volume 3, Issue 6. Wiley Interdisciplinary Reviews: Water, 2016, 3, ii.	6.5	0
18	Decrease in winter respiration explains 25% of the annual northern forest carbon sink enhancement over the last 30 years. Global Ecology and Biogeography, 2016, 25, 586-595.	5.8	16

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19	Large divergence of satellite and Earth system model estimates of global terrestrial CO2Âfertilization. Nature Climate Change, 2016, 6, 306-310.	18.8	309
20	Vegetation Greening and Climate Change Promote Multidecadal Rises of Global Land Evapotranspiration. Scientific Reports, 2015, 5, 15956.	3.3	265
21	Suitable Days for Plant Growth Disappear under Projected Climate Change: Potential Human and Biotic Vulnerability. PLoS Biology, 2015, 13, e1002167.	5.6	73
22	Artificial amplification of warming trends across the mountains of the western United States. Geophysical Research Letters, 2015, 42, 153-161.	4.0	136
23	Ecosystem services lost to oil and gas in North America. Science, 2015, 348, 401-402.	12.6	256
24	Climateâ€“growth relationships of relictPicea jezoensisat Mt. Gyebang, South Korea. Forest Science and Technology, 2015, 11, 19-26.	0.8	4
25	Creating a topoclimatic daily air temperature dataset for the conterminous United States using homogenized station data and remotely sensed land skin temperature. International Journal of Climatology, 2015, 35, 2258-2279.	3.5	162
26	Comparison of Gross Primary Productivity Derived from GIMMS NDVI3g, GIMMS, and MODIS in Southeast Asia. Remote Sensing, 2014, 6, 2108-2133.	4.0	59
27	Estimating climate change effects on net primary production of rangelands in the United States. Climatic Change, 2014, 126, 429-442.	3.6	85
28	Modeling and Monitoring Terrestrial Primary Production in a Changing Global Environment: Toward a Multiscale Synthesis of Observation and Simulation. Advances in Meteorology, 2014, 2014, 1-17.	1.6	54
29	Improving ecosystem productivity modeling through spatially explicit estimation of optimal light use efficiency. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1755-1769.	3.0	64
30	Agricultural conversion without external water and nutrient inputs reduces terrestrial vegetation productivity. Geophysical Research Letters, 2014, 41, 449-455.	4.0	29
31	The global NPP dependence on ENSO: La NiÃ±a and the extraordinary year of 2011. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1247-1255.	3.0	101
32	Pushing the Planetary Boundariesâ€”Response. Science, 2012, 338, 1420-1420.	12.6	0
33	A Measurable Planetary Boundary for the Biosphere. Science, 2012, 337, 1458-1459.	12.6	241
34	Impacts of climate change on August stream discharge in the Central-Rocky Mountains. Climatic Change, 2012, 112, 997-1014.	3.6	75
35	China's terrestrial carbon balance: Contributions from multiple global change factors. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	231
36	A global comparison between station air temperatures and MODIS land surface temperatures reveals the cooling role of forests. Journal of Geophysical Research, 2011, 116, .	3.3	205

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37	Evolution of hydrological and carbon cycles under a changing climate. Hydrological Processes, 2011, 25, 4093-4102.	2.6	34
38	Response to Comments on â€œDrought-Induced Reduction in Global Terrestrial Net Primary Production from 2000 Through 2009â€. Science, 2011, 333, 1093-1093.	12.6	65
39	Satellite Finds Highest Land Skin Temperatures on Earth. Bulletin of the American Meteorological Society, 2011, 92, 855-860.	3.3	118
40	A continuous satelliteâ€derived global record of land surface evapotranspiration from 1983 to 2006. Water Resources Research, 2010, 46, .	4.2	444
41	Drought-Induced Reduction in Global Terrestrial Net Primary Production from 2000 Through 2009. Science, 2010, 329, 940-943.	12.6	2,096
42	Systematic assessment of terrestrial biogeochemistry in coupled climateâ€“carbon models. Global Change Biology, 2009, 15, 2462-2484.	9.5	324
43	Trends in the sources and sinks of carbon dioxide. Nature Geoscience, 2009, 2, 831-836.	12.9	1,746
44	Next-generation terrestrial carbon monitoring. Geophysical Monograph Series, 2009, , 49-69.	0.1	4
45	Satellite assessment of land surface evapotranspiration for the panâ€Arctic domain. Water Resources Research, 2009, 45, .	4.2	74
46	Global Satellite Vegetation Monitoring: Long Term Global Monitoring of Vegetation Variables Using Moderate Resolution Satellites; Missoula, Montana, 16-19 June 2009. Eos, 2009, 90, 388-388.	0.1	0
47	Contribution of increasing CO₂ and climate change to the carbon cycle in China's ecosystems. Journal of Geophysical Research, 2008, 113, .	3.3	46
48	Satelliteâ€based model detection of recent climateâ€driven changes in northern highâ€latitude vegetation productivity. Journal of Geophysical Research, 2008, 113, .	3.3	99
49	Ecosystem Disturbance, Carbon, and Climate. Science, 2008, 321, 652-653.	12.6	237
50	Evaluating water stress controls on primary production in biogeochemical and remote sensing based models. Journal of Geophysical Research, 2007, 112, .	3.3	108
51	Sensitivity of pan-Arctic terrestrial net primary productivity simulations to daily surface meteorology from NCEP-NCAR and ERA-40 reanalyses. Journal of Geophysical Research, 2007, 112, .	3.3	23
52	Impacts of largeâ€scale oscillations on panâ€Arctic terrestrial net primary production. Geophysical Research Letters, 2007, 34, .	4.0	27
53	FLUXNET and modelling the global carbon cycle. Global Change Biology, 2007, 13, 610-633.	9.5	234
54	CLIMATE CHANGE: Is Global Warming Causing More, Larger Wildfires?. Science, 2006, 313, 927-928.	12.6	272

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55	Sensitivity of Moderate Resolution Imaging Spectroradiometer (MODIS) terrestrial primary production to the accuracy of meteorological reanalyses. Journal of Geophysical Research, 2006, 111, .	3.3	364
56	Estimation of incident photosynthetically active radiation from Moderate Resolution Imaging Spectrometer data. Journal of Geophysical Research, 2006, 111, .	3.3	159
57	Where are the hottest spots on Earth?. Eos, 2006, 87, 461-467.	0.1	35
58	Monitoring global vegetation using moderate-resolution satellites. Eos, 2006, 87, 568.	0.1	5
59	Topographic and climatic controls on soil environments and net primary production in a rugged temperate hardwood forest in Korea. Ecological Research, 2006, 21, 64-74.	1.5	27
60	A generalized, bioclimatic index to predict foliar phenology in response to climate. Global Change Biology, 2005, 11, 619-632.	9.5	363
61	Improvements of the MODIS terrestrial gross and net primary production global data set. Remote Sensing of Environment, 2005, 95, 164-176.	11.0	1,382
62	Aggregate measures of ecosystem services: can we take the pulse of nature?. Frontiers in Ecology and the Environment, 2005, 3, 56-59.	4.0	34
63	A Continuous Satellite-Derived Measure of Global Terrestrial Primary Production. BioScience, 2004, 54, 547.	4.9	1,778
64	Effects of precipitation and soil water potential on drought deciduous phenology in the Kalahari. Global Change Biology, 2004, 10, 303-308.	9.5	114
65	Global land data sets for next-generation biospheric monitoring. Eos, 2004, 85, 543.	0.1	2
66	El NiÃ±o-Southern Oscillation-induced variability in terrestrial carbon cycling. Journal of Geophysical Research, 2004, 109, .	3.3	42
67	An operational remote sensing algorithm of land surface evaporation. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	265
68	Fuzzy Logic Merger of Spectral and Ecological Information for Improved Montane Forest Mapping. Geocarto International, 2002, 17, 61-68.	3.5	3
69	New satellite technologies enhance study of terrestrial biosphere. Eos, 2002, 83, 458-460.	0.1	5
70	WATER IN A CHANGING WORLD. , 2001, 11, 1027-1045.		709
71	WATER IN A CHANGING WORLD. , 2001, 11, 1027.		2
72	Title is missing!. Climatic Change, 2000, 47, 167-191.	3.6	15

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73	Global Terrestrial Gross and Net Primary Productivity from the Earth Observing System. , 2000, , 44-57.		357
74	Modeled responses of terrestrial ecosystems to elevated atmospheric CO 2 : a comparison of simulations by the biogeochemistry models of the Vegetation/Ecosystem Modeling and Analysis Project (VEMAP). Oecologia, 1998, 114, 389-404.	2.0	132
75	Contrasting Climatic Controls on the Estimated Productivity of Global Terrestrial Biomes. Ecosystems, 1998, 1, 206-215.	3.4	407
76	ASSESSING SIMULATED ECOSYSTEM PROCESSES FOR CLIMATE VARIABILITY RESEARCH AT GLACIER NATIONAL PARK, USA. , 1998, 8, 805-823.		46
77	WATERSHED RESPONSES TO CLIMATE CHANGE AT GLACIER NATIONAL PARK. Journal of the American Water Resources Association, 1997, 33, 755-765.	2.4	19
78	Comparison of available soil water capacity estimated from topography and soil series information. Landscape Ecology, 1996, 11, 3-14.	4.2	47
79	Satellite monitoring of global land cover changes and their impact on climate. Climatic Change, 1995, 31, 395-413.	3.6	34
80	Woody tissue maintenance respiration of four conifers in contrasting climates. Oecologia, 1995, 101, 133-140.	2.0	228
81	Forest ecosystem processes at the watershed scale: sensitivity to remotely-sensed Leaf Area Index estimates. International Journal of Remote Sensing, 1993, 14, 2519-2534.	2.9	248
82	FOREST-BGC, A general model of forest ecosystem processes for regional applications. II. Dynamic carbon allocation and nitrogen budgets. Tree Physiology, 1991, 9, 147-160.	3.1	617
83	Remote sensing of temperate coniferous forest leaf area index The influence of canopy closure, understory vegetation and background reflectance. International Journal of Remote Sensing, 1990, 11, 95-111.	2.9	322
84	Application of spaceborne scatterometer for mapping freeze-thaw state in northern landscapes as a measure of ecological and hydrological processes. , 0, , .		6
85	Terrestrial Observation and Prediction System: integration of satellite and surface weather observations with ecosystem models. , 0, , .		4