# Steven Running

List of Publications by Year
in descending order



| 85 | 17,202 | 48 | 74 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| | | 44069 | 76900 |

| 86 | 86 | 86 | 17150 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Drought-Induced Reduction in Global Terrestrial Net Primary Production from 2000 Through 2009. Science, 2010, 329, 940-943. | 12.6 | 2,096 |
| 2 | A Continuous Satellite-Derived Measure of Global Terrestrial Primary Production. BioScience, 2004, 54, 547. | 4.9 | 1,778 |
| 3 | Trends in the sources and sinks of carbon dioxide. Nature Geoscience, 2009, 2, 831-836. | 12.9 | 1,746 |
| 4 | 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 |
| 5 | WATER IN A CHANGING WORLD. , 2001, 11, 1027-1045. | | 709 |
| 6 | 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 |
| 7 | A continuous satelliteâ€derived global record of land surface evapotranspiration from 1983 to 2006. Water Resources Research, 2010, 46, . | 4.2 | 444 |
| 8 | Contrasting Climatic Controls on the Estimated Productivity of Global Terrestrial Biomes. Ecosystems, 1998, 1, 206-215. | 3.4 | 407 |
| 9 | A review of remote sensing based actual evapotranspiration estimation. Wiley Interdisciplinary Reviews: Water, 2016, 3, 834-853. | 6.5 | 380 |
| 10 | 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 |
| 11 | A generalized, bioclimatic index to predict foliar phenology in response to climate. Global Change Biology, 2005, 11, 619-632. | 9.5 | 363 |
| 12 | Global Terrestrial Gross and Net Primary Productivity from the Earth Observing System. , 2000, , 44-57. | | 357 |
| 13 | Systematic assessment of terrestrial biogeochemistry in coupled climateâ€"carbon models. Global Change Biology, 2009, 15, 2462-2484. | 9.5 | 324 |
| 14 | 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 |
| 15 | Large divergence of satellite and Earth system model estimates of global terrestrial CO2Âfertilization. Nature Climate Change, 2016, 6, 306-310. | 18.8 | 309 |
| 16 | CLIMATE CHANGE: Is Global Warming Causing More, Larger Wildfires?. Science, 2006, 313, 927-928. | 12.6 | 272 |
| 17 | An operational remote sensing algorithm of land surface evaporation. Journal of Geophysical Research, 2003, 108, n/a-n/a. | 3.3 | 265 |
| 18 | Vegetation Greening and Climate Change Promote Multidecadal Rises of Global Land Evapotranspiration. Scientific Reports, 2015, 5, 15956. | 3.3 | 265 |

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|---|---|---|---|
| 19 | Ecosystem services lost to oil and gas in North America. Science, 2015, 348, 401-402. | 12.6 | 256 |
| 20 | 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 |
| 21 | A Measurable Planetary Boundary for the Biosphere. Science, 2012, 337, 1458-1459. | 12.6 | 241 |
| 22 | Ecosystem Disturbance, Carbon, and Climate. Science, 2008, 321, 652-653. | 12.6 | 237 |
| 23 | FLUXNET and modelling the global carbon cycle. Global Change Biology, 2007, 13, 610-633. | 9.5 | 234 |
| 24 | China's terrestrial carbon balance: Contributions from multiple global change factors. Global Biogeochemical Cycles, 2011, 25, n/a-n/a. | 4.9 | 231 |
| 25 | Woody tissue maintenance respiration of four conifers in contrasting climates. Oecologia, 1995, 101, 133-140. | 2.0 | 228 |
| 26 | 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 |
| 27 | 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 |
| 28 | A unified vegetation index for quantifying the terrestrial biosphere. Science Advances, 2021, 7, . | 10.3 | 160 |
| 29 | Estimation of incident photosynthetically active radiation from Moderate Resolution Imaging Spectrometer data. Journal of Geophysical Research, 2006, 111, . | 3.3 | 159 |
| 30 | Artificial amplification of warming trends across the mountains of the western United States. Geophysical Research Letters, 2015, 42, 153-161. | 4.0 | 136 |
| 31 | 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 |
| 32 | Satellite Finds Highest Land Skin Temperatures on Earth. Bulletin of the American Meteorological Society, 2011, 92, 855-860. | 3.3 | 118 |
| 33 | Effects of precipitation and soil water potential on drought deciduous phenology in the Kalahari. Global Change Biology, 2004, 10, 303-308. | 9.5 | 114 |
| 34 | Evaluating water stress controls on primary production in biogeochemical and remote sensing based models. Journal of Geophysical Research, 2007, 112, . | 3.3 | 108 |
| 35 | 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 |
| 36 | Satelliteâ€based model detection of recent climateâ€driven changes in northern highâ€latitude vegetation productivity. Journal of Geophysical Research, 2008, 113, . | 3.3 | 99 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Future global productivity will be affected by plant trait response to climate. Scientific Reports, 2018, 8, 2870. | 3.3 | 95 |
| 39 | Estimating climate change effects on net primary production of rangelands in the United States. Climatic Change, 2014, 126, 429-442. | 3.6 | 85 |
| 40 | 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 |
| 41 | Impacts of climate change on August stream discharge in the Central-Rocky Mountains. Climatic Change, 2012, 112, 997-1014. | 3.6 | 75 |
| 42 | Global Estimation of Biophysical Variables from Google Earth Engine Platform. Remote Sensing, 2018, 10, 1167. | 4.0 | 75 |
| 43 | Satellite assessment of land surface evapotranspiration for the panâ€Arctic domain. Water Resources Research, 2009, 45, . | 4.2 | 74 |
| 44 | European land CO2 sink influenced by NAO and East-Atlantic Pattern coupling. Nature Communications, 2016, 7, 10315. | 12.8 | 74 |
| 45 | Suitable Days for Plant Growth Disappear under Projected Climate Change: Potential Human and Biotic Vulnerability. PLoS Biology, 2015, 13, e1002167. | 5.6 | 73 |
| 46 | Multispectral high resolution sensor fusion for smoothing and gap-filling in the cloud. Remote Sensing of Environment, 2020, 247, 111901. | 11.0 | 67 |
| 47 | 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 |
| 48 | 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 |
| 49 | Comparison of Gross Primary Productivity Derived from GIMMS NDVI3g, GIMMS, and MODIS in Southeast Asia. Remote Sensing, 2014, 6, 2108-2133. | 4.0 | 59 |
| 50 | 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 |
| 51 | Comparison of available soil water capacity estimated from topography and soil series information. Landscape Ecology, 1996, 11, 3-14. | 4.2 | 47 |
| 52 | ASSESSING SIMULATED ECOSYSTEM PROCESSES FOR CLIMATE VARIABILITY RESEARCH AT GLACIER NATIONAL PARK, USA. , 1998, 8, 805-823. | | 46 |
| 53 | Contribution of increasing CO<sub>2</sub> and climate change to the carbon cycle in China's ecosystems. Journal of Geophysical Research, 2008, 113, . | 3.3 | 46 |
| 54 | El NiÃ±o-Southern Oscillation-induced variability in terrestrial carbon cycling. Journal of Geophysical Research, 2004, 109, . | 3.3 | 42 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Where are the hottest spots on Earth?. Eos, 2006, 87, 461-467. | 0.1 | 35 |
| 57 | Satellite monitoring of global land cover changes and their impact on climate. Climatic Change, 1995, 31, 395-413. | 3.6 | 34 |
| 58 | 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 |
| 59 | Evolution of hydrological and carbon cycles under a changing climate. Hydrological Processes, 2011, 25, 4093-4102. | 2.6 | 34 |
| 60 | Agricultural conversion without external water and nutrient inputs reduces terrestrial vegetation productivity. Geophysical Research Letters, 2014, 41, 449-455. | 4.0 | 29 |
| 61 | 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 |
| 62 | Impacts of largeâ€scale oscillations on panâ€Arctic terrestrial net primary production. Geophysical Research Letters, 2007, 34, . | 4.0 | 27 |
| 63 | 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 |
| 64 | WATERSHED RESPONSES TO CLIMATE CHANGE AT GLACIER NATIONAL PARK. Journal of the American Water Resources Association, 1997, 33, 755-765. | 2.4 | 19 |
| 65 | 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 |
| 66 | Title is missing!. Climatic Change, 2000, 47, 167-191. | 3.6 | 15 |
| 67 | 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 |
| 68 | Seasonality of biological and physical systems as indicators of climatic variation and change. Climatic Change, 2020, 163, 1755-1771. | 3.6 | 9 |
| 69 | Terrestrial primary productivity indicators for inclusion in the National Climate Indicators System. Climatic Change, 2020, 163, 1855-1868. | 3.6 | 8 |
| 70 | 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 |
| 71 | Application of spaceborne scatterometer for mapping freeze-thaw state in northern landscapes as a measure of ecological and hydrological processes. , 0, , . |  | 6 |
| 72 | New satellite technologies enhance study of terrestrial biosphere. Eos, 2002, 83, 458-460. | 0.1 | 5 |

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|---|---|---|---|
| 73 | Monitoring global vegetation using moderate-resolution satellites. Eos, 2006, 87, 568. | 0.1 | 5 |
| 74 | Terrestrial Observation and Prediction System: integration of satellite and surface weather observations with ecosystem models. , 0, , . | | 4 |
| 75 | Next-generation terrestrial carbon monitoring. Geophysical Monograph Series, 2009, , 49-69. | 0.1 | 4 |
| 76 | Climateâ€"growth relationships of relictPicea jezoensisat Mt. Gyebang, South Korea. Forest Science and Technology, 2015, 11, 19-26. | 0.8 | 4 |
| 77 | Fuzzy Logic Merger of Spectral and Ecological Information for Improved Montane Forest Mapping. Geocarto International, 2002, 17, 61-68. | 3.5 | 3 |
| 78 | Global land data sets for next-generation biospheric monitoring. Eos, 2004, 85, 543. | 0.1 | 2 |
| 79 | WATER IN A CHANGING WORLD. , 2001, 11, 1027. | | 2 |
| 80 | Interpolation and Gap Filling of Landsat Reflectance Time Series. , 2018, , . | | 1 |
| 81 | Down-Scaling Modis Vegetation Products with Landsat GAP Filled Surface Reflectance in Google Earth Engine. , 2020, , . | | 1 |
| 82 | 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 |
| 83 | Pushing the Planetary Boundariesâ€"Response. Science, 2012, 338, 1420-1420. | 12.6 | 0 |
| 84 | Inside Cover Image, Volume 3, Issue 6. Wiley Interdisciplinary Reviews: Water, 2016, 3, ii. | 6.5 | 0 |
| 85 | Global Upscaling of the MODIS Land Cover with Google Earth Engine and Landsat Data. , 2021, , . | | 0 |