

# Peter D Blanken

## List of Publications by Year in descending order

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109  
papers

8,272  
citations

47006

47  
h-index

48315

88  
g-index

119  
all docs

119  
docs citations

119  
times ranked

9056  
citing authors

#	ARTICLE	IF	CITATIONS
1	The increasing importance of atmospheric demand for ecosystem water and carbon fluxes. <i>Nature Climate Change</i> , 2016, 6, 1023-1027.	18.8	734
2	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. <i>Scientific Data</i> , 2020, 7, 225.	5.3	646
3	Land cover changes and their biogeophysical effects on climate. <i>International Journal of Climatology</i> , 2014, 34, 929-953.	3.5	536
4	Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2788-2793.	7.1	265
5	Description and Evaluation of the Characteristics of the NCAR High-Resolution Land Data Assimilation System. <i>Journal of Applied Meteorology and Climatology</i> , 2007, 46, 694-713.	1.5	243
6	Impacts of Land Use/Land Cover Change on Climate and Future Research Priorities. <i>Bulletin of the American Meteorological Society</i> , 2010, 91, 37-46.	3.3	226
7	Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the LaThuile database. <i>Agricultural and Forest Meteorology</i> , 2014, 192-193, 108-120.	4.8	220
8	Mechanistic evidence for tracking the seasonality of photosynthesis with solar-induced fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11640-11645.	7.1	219
9	Effects of climatic variability on the annual carbon sequestration by a boreal aspen forest. <i>Global Change Biology</i> , 1999, 5, 41-53.	9.5	180
10	Eddy covariance measurements of evaporation from Great Slave Lake, Northwest Territories, Canada. <i>Water Resources Research</i> , 2000, 36, 1069-1077.	4.2	165
11	Energy budget above a high-elevation subalpine forest in complex topography. <i>Agricultural and Forest Meteorology</i> , 2002, 110, 177-201.	4.8	157
12	Unresolved issues with the assessment of multidecadal global land surface temperature trends. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	154
13	Interannual variability of net ecosystem productivity in forests is explained by carbon flux phenology in autumn. <i>Global Ecology and Biogeography</i> , 2013, 22, 994-1006.	5.8	144
14	Airflows and turbulent flux measurements in mountainous terrain. <i>Agricultural and Forest Meteorology</i> , 2003, 119, 1-21.	4.8	142
15	Terrestrial carbon balance in a drier world: the effects of water availability in southwestern North America. <i>Global Change Biology</i> , 2016, 22, 1867-1879.	9.5	142
16	The Role of Northern Lakes in a Regional Energy Balance. <i>Journal of Hydrometeorology</i> , 2005, 6, 291-305.	1.9	141
17	Partitioning forest carbon fluxes with overstory and understory eddy-covariance measurements: A synthesis based on FLUXNET data. <i>Agricultural and Forest Meteorology</i> , 2007, 144, 14-31.	4.8	138
18	Radiation regime and canopy architecture in a boreal aspen forest. <i>Agricultural and Forest Meteorology</i> , 1997, 86, 107-125.	4.8	134

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19	Rainfall interception and the coupled surface water and energy balance. <i>Agricultural and Forest Meteorology</i> , 2015, 214-215, 402-415.	4.8	130
20	Turbulent Flux Measurements Above and Below the Overstory of a Boreal Aspen Forest. <i>Boundary-Layer Meteorology</i> , 1998, 89, 109-140.	2.3	127
21	Representativeness of Eddy-Covariance flux footprints for areas surrounding AmeriFlux sites. <i>Agricultural and Forest Meteorology</i> , 2021, 301-302, 108350.	4.8	125
22	Evaporation from Lake Superior: 1. Physical controls and processes. <i>Journal of Great Lakes Research</i> , 2011, 37, 707-716.	1.9	122
23	Estimating sublimation of intercepted and sub-canopy snow using eddy covariance systems. <i>Hydrological Processes</i> , 2007, 21, 1567-1575.	2.6	114
24	Reservoir Evaporation in the Western United States: Current Science, Challenges, and Future Needs. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 167-187.	3.3	107
25	Increasing contribution of peatlands to boreal evapotranspiration in a warming climate. <i>Nature Climate Change</i> , 2020, 10, 555-560.	18.8	106
26	The seasonal water and energy exchange above and within a boreal aspen forest. <i>Journal of Hydrology</i> , 2001, 245, 118-136.	5.4	100
27	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021, 598, 468-472.	27.8	99
28	Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. <i>Global Change Biology</i> , 2020, 26, 6916-6930.	9.5	97
29	Interannual and Seasonal Variability of the Surface Energy Balance and Temperature of Central Great Slave Lake. <i>Journal of Hydrometeorology</i> , 2003, 4, 720-730.	1.9	96
30	Global parameterization and validation of a two-leaf light use efficiency model for predicting gross primary production across FLUXNET sites. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1045-1072.	3.0	93
31	Data-driven diagnostics of terrestrial carbon dynamics over North America. <i>Agricultural and Forest Meteorology</i> , 2014, 197, 142-157.	4.8	88
32	Surface Energy Balance of the Western and Central Canadian Subarctic: Variations in the Energy Balance among Five Major Terrain Types. <i>Journal of Climate</i> , 2001, 14, 3692-3703.	3.2	82
33	Enhancement of Evaporation from a Large Northern Lake by the Entrainment of Warm, Dry Air. <i>Journal of Hydrometeorology</i> , 2003, 4, 680-693.	1.9	72
34	Limitations to winter and spring photosynthesis of a Rocky Mountain subalpine forest. <i>Agricultural and Forest Meteorology</i> , 2018, 252, 241-255.	4.8	72
35	The canopy conductance of a boreal aspen forest, Prince Albert National Park, Canada. <i>Hydrological Processes</i> , 2004, 18, 1561-1578.	2.6	71
36	Hydrological impacts of land use/land cover change in a large river basin in central-northern Thailand. <i>International Journal of Climatology</i> , 2010, 30, 1917-1930.	3.5	66

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37	Over-Lake Meteorology and Estimated Bulk Heat Exchange of Great Slave Lake in 1998 and 1999. <i>Journal of Hydrometeorology</i> , 2003, 4, 649-659.	1.9	65
38	A comparison of water and carbon dioxide exchange at a windy alpine tundra and subalpine forest site near Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 2009, 95, 61-76.	3.5	65
39	An Investigation of the Thermal and Energy Balance Regimes of Great Slave and Great Bear Lakes. <i>Journal of Hydrometeorology</i> , 2008, 9, 1318-1333.	1.9	64
40	Evaporation from Lake Superior: 2. <i>Journal of Great Lakes Research</i> , 2011, 37, 717-724.	1.9	63
41	The Importance of Spring and Autumn Atmospheric Conditions for the Evaporation Regime of Lake Superior. <i>Journal of Hydrometeorology</i> , 2013, 14, 1647-1658.	1.9	56
42	Airflows and turbulent flux measurements in mountainous terrain. <i>Agricultural and Forest Meteorology</i> , 2004, 125, 187-205.	4.8	54
43	Predicting the Net Basin Supply to the Great Lakes with a Hydrometeorological Model. <i>Journal of Hydrometeorology</i> , 2012, 13, 1739-1759.	1.9	53
44	The relative contributions of alpine and subalpine ecosystems to the water balance of a mountainous, headwater catchment. <i>Hydrological Processes</i> , 2015, 29, 4794-4808.	2.6	51
45	Contrasting long-term alpine and subalpine precipitation trends in a mid-latitude North American mountain system, Colorado Front Range, USA. <i>Plant Ecology and Diversity</i> , 2015, 8, 607-624.	2.4	49
46	Solar-Induced Fluorescence Detects Interannual Variation in Gross Primary Production of Coniferous Forests in the Western United States. <i>Geophysical Research Letters</i> , 2018, 45, 7184-7193.	4.0	49
47	Estimation of the Minimum Canopy Resistance for Croplands and Grasslands Using Data from the 2002 International H2O Project. <i>Monthly Weather Review</i> , 2008, 136, 4452-4469.	1.4	47
48	Using sonic anemometer temperature to measure sensible heat flux in strong winds. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2095-2111.	3.1	47
49	Biotic and climatic controls on interannual variability in carbon fluxes across terrestrial ecosystems. <i>Agricultural and Forest Meteorology</i> , 2015, 205, 11-22.	4.8	47
50	Fluxes of energy, water, and carbon dioxide from mountain ecosystems at Niwot Ridge, Colorado. <i>Plant Ecology and Diversity</i> , 2015, 8, 663-676.	2.4	47
51	Temperature thresholds of ecosystem respiration at a global scale. <i>Nature Ecology and Evolution</i> , 2021, 5, 487-494.	7.8	46
52	Energy and surface moisture seasonally limit evaporation and sublimation from snow-free alpine tundra. <i>Agricultural and Forest Meteorology</i> , 2012, 157, 106-115.	4.8	44
53	Variability in cold front activities modulating cool-season evaporation from a southern inland water in the USA. <i>Environmental Research Letters</i> , 2011, 6, 024022.	5.2	42
54	Nonstationarity of turbulent heat fluxes at Summit, Greenland. <i>Boundary-Layer Meteorology</i> , 2007, 122, 439-455.	2.3	41

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55	Soil respiration variability across a soil moisture and vegetation community gradient within a snow-scoured alpine meadow. <i>Biogeochemistry</i> , 2015, 125, 185-202.	3.5	40
56	Snow Temperature Changes within a Seasonal Snowpack and Their Relationship to Turbulent Fluxes of Sensible and Latent Heat. <i>Journal of Hydrometeorology</i> , 2014, 15, 117-142.	1.9	38
57	Vegetation-specific model parameters are not required for estimating gross primary production. <i>Ecological Modelling</i> , 2014, 292, 1-10.	2.5	37
58	An underestimated role of precipitation frequency in regulating summer soil moisture. <i>Environmental Research Letters</i> , 2012, 7, 024011.	5.2	34
59	Surface energy balance closure at ten sites over the Tibetan plateau. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 317-328.	4.8	34
60	NCAR/CU Surface, Soil, and Vegetation Observations during the International H2O Project 2002 Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 65-82.	3.3	32
61	White on green: under-snow microbial processes and trace gas fluxes through snow, Niwot Ridge, Colorado Front Range. <i>Biogeochemistry</i> , 2009, 95, 1-12.	3.5	32
62	Temporal Dynamics of Aerodynamic Canopy Height Derived From Eddy Covariance Momentum Flux Data Across North American Flux Networks. <i>Geophysical Research Letters</i> , 2018, 45, 9275-9287.	4.0	31
63	Spatiotemporal Consistency of Four Gross Primary Production Products and Solar-Induced Chlorophyll Fluorescence in Response to Climate Extremes Across CONUS in 2012. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 3140-3161.	3.0	30
64	Seasonal variation in the canopy color of temperate evergreen conifer forests. <i>New Phytologist</i> , 2021, 229, 2586-2600.	7.3	30
65	Variability in the Environmental Factors Driving Evapotranspiration from a Grazed Rangeland during Severe Drought Conditions. <i>Journal of Hydrometeorology</i> , 2007, 8, 207-220.	1.9	29
66	Remote Sensing of the North American Laurentian Great Lakes™ Surface Temperature. <i>Remote Sensing</i> , 2016, 8, 286.	4.0	28
67	Climate-Lake Interactions. , 2008, , 139-160.		25
68	Wide discrepancies in the magnitude and direction of modeled solar-induced chlorophyll fluorescence in response to light conditions. <i>Biogeosciences</i> , 2020, 17, 3733-3755.	3.3	24
69	Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. <i>Global Ecology and Biogeography</i> , 2019, 28, 1351-1365.	5.8	22
70	Montane forest productivity across a semiarid climatic gradient. <i>Global Change Biology</i> , 2020, 26, 6945-6958.	9.5	22
71	Direct and indirect effects of climatic variations on the interannual variability in net ecosystem exchange across terrestrial ecosystems. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 30575.	1.6	21
72	Hillslope Hydrology Influences the Spatial and Temporal Patterns of Remotely Sensed Ecosystem Productivity. <i>Water Resources Research</i> , 2020, 56, e2020WR027630.	4.2	21

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73	CROSS-LAKE VARIATION OF PHYSICAL LIMNOLOGICAL AND CLIMATOLOGICAL PROCESSES OF GREAT SLAVE LAKE. <i>Physical Geography</i> , 2000, 21, 385-406.	1.4	20
74	Optimizing Available Network Resources to Address Questions in Environmental Biogeochemistry. <i>BioScience</i> , 2016, 66, 317-326.	4.9	20
75	Evidence for non-steady-state carbon emissions from snow-scoured alpine tundra. <i>Nature Communications</i> , 2019, 10, 1306.	12.8	20
76	The Influence of Lakes on the Regional Energy and Water Balance of the Central Mackenzie River Basin. , 2008, , 309-325.		20
77	Decomposing reflectance spectra to track gross primary production in a subalpine evergreen forest. <i>Biogeosciences</i> , 2020, 17, 4523-4544.	3.3	20
78	Concerning the Measurement and Magnitude of Heat, Water Vapor, and Carbon Dioxide Exchange from a Semiarid Grassland. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 982-996.	1.5	19
79	Ecosystem function in complex mountain terrain: Combining models and long-term observations to advance process-based understanding. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 825-845.	3.0	19
80	A Comparison of the Diel Cycle of Modeled and Measured Latent Heat Flux During the Warm Season in a Colorado Subalpine Forest. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 617-651.	3.8	19
81	Optimization of an enclosed gas analyzer sampling system for measuring eddy covariance fluxes of H <sub>2</sub> O and CO <sub>2</sub> . <i>Atmospheric Measurement Techniques</i> , 2016, 9, 1341-1359.	3.1	18
82	Gross primary production (GPP) and red solar induced fluorescence (SIF) respond differently to light and seasonal environmental conditions in a subalpine conifer forest. <i>Agricultural and Forest Meteorology</i> , 2022, 317, 108904.	4.8	18
83	The effect of winter drought on evaporation from a high-elevation wetland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1354-1369.	3.0	16
84	Evaluating and improving modeled turbulent heat fluxes across the North American Great Lakes. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5559-5578.	4.9	16
85	Wet meadow ecosystems contribute the majority of overwinter soil respiration from snow-scoured alpine tundra. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1118-1130.	3.0	14
86	Seasonality in aerodynamic resistance across a range of North American ecosystems. <i>Agricultural and Forest Meteorology</i> , 2021, 310, 108613.	4.8	14
87	The Time Scales of Evaporation from Great Slave Lake. , 2008, , 181-196.		14
88	The Niwot Ridge Subalpine Forest US-NR1 AmeriFlux site – Part 1: Data acquisition and site record-keeping. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 451-471.	1.6	12
89	Enhanced Temperature-Humidity Similarity Caused by Entrainment Processes With Increased Wind Shear. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4110-4121.	3.3	12
90	Designing a Living Snow Fence for Snow Drift Control. <i>Arctic, Antarctic, and Alpine Research</i> , 2009, 41, 418-425.	1.1	11

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91	How representative is a point? The spatial variability of surface energy fluxes across short distances in a sand-sagebrush ecosystem. <i>Journal of Arid Environments</i> , 2012, 87, 42-49.	2.4	11
92	The Estimation of the North American Great Lakes Turbulent Fluxes Using Satellite Remote Sensing and MERRA Reanalysis Data. <i>Remote Sensing</i> , 2017, 9, 141.	4.0	11
93	The effect of static pressure-wind covariance on vertical carbon dioxide exchange at a windy subalpine forest site. <i>Agricultural and Forest Meteorology</i> , 2021, 306, 108402.	4.8	10
94	The impact of an air quality advisory program on voluntary mobile source air pollution reduction. <i>Atmospheric Environment</i> , 2001, 35, 2417-2421.	4.1	9
95	Snow: Hydrological and Ecological Feedbacks in Forests. <i>Ecological Studies</i> , 2011, , 541-555.	1.2	9
96	Characterizing and Constraining Uncertainty Associated with Surface and Boundary Layer Turbulent Fluxes in Simulations of Lake-Effect Snowfall. <i>Weather and Forecasting</i> , 2019, 35, 467-488.	1.4	8
97	Interannual Variability of the Thermal Components and Bulk Heat Exchange of Great Slave Lake. , 2008, , 197-219.		8
98	Estimating the Great Lakes net radiation using satellite remote sensing and MERRA reanalysis. <i>International Journal of Digital Earth</i> , 2017, 10, 764-784.	3.9	7
99	Resolving temperature limitation on spring productivity in an evergreen conifer forest using a model-data fusion framework. <i>Biogeosciences</i> , 2022, 19, 541-558.	3.3	6
100	Challenges and Capabilities in Estimating Snow Mass Intercepted in Conifer Canopies With Tree Sway Monitoring. <i>Water Resources Research</i> , 2022, 58, .	4.2	6
101	Carbon and Water Cycling in Two Rubber Plantations and a Natural Forest in Mainland Southeast Asia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	5
102	On thin ice: Linking elevation and long-term losses of lake ice cover. <i>Limnology and Oceanography Letters</i> , 2021, 6, 77-84.	3.9	4
103	Site Characteristics Mediate the Relationship Between Forest Productivity and Satellite Measured Solar Induced Fluorescence. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	2.3	4
104	Coupling of Tree Growth and Photosynthetic Carbon Uptake Across Six North American Forests. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	3.0	3
105	Reply to comment by David E. Parker et al. on "Unresolved issues with the assessment of multidecadal global land surface temperature trends". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	1
106	Atmospheric Sciences Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. <i>Earth and Space Science</i> , 2022, 9, .	2.6	1
107	Microclimates of Different Vegetated Environments. , 0, , 148-186.		0
108	The estimation the Great Lakes net basin supply: implications for water level fluctuations. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

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109	A decade of changing surface energy balance components over a large water region. , 2016, , .		0