

Paul D Brooks

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,743
citations

87888

38
h-index

106344

65
g-index

65
all docs

65
docs citations

65
times ranked

5098
citing authors

#	ARTICLE	IF	CITATIONS
1	Inorganic nitrogen and microbial biomass dynamics before and during spring snowmelt. <i>Biogeochemistry</i> , 1998, 43, 1-15.	3.5	312
2	Microbial activity under alpine snowpacks, Niwot Ridge, Colorado. <i>Biogeochemistry</i> , 1996, 32, 93.	3.5	283
3	Winter production of CO ₂ and N ₂ O from alpine tundra: environmental controls and relationship to inter-system C and N fluxes. <i>Oecologia</i> , 1997, 110, 403-413.	2.0	253
4	Snowpack controls on nitrogen cycling and export in seasonally snow-covered catchments. <i>Hydrological Processes</i> , 1999, 13, 2177-2190.	2.6	244
5	Cascading impacts of bark beetle-caused tree mortality on coupled biogeophysical and biogeochemical processes. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 416-424.	4.0	215
6	Hydrological partitioning in the critical zone: Recent advances and opportunities for developing transferable understanding of water cycle dynamics. <i>Water Resources Research</i> , 2015, 51, 6973-6987.	4.2	189
7	Carbon limitation of soil respiration under winter snowpacks: potential feedbacks between growing season and winter carbon fluxes. <i>Global Change Biology</i> , 2005, 11, 231-238.	9.5	185
8	Carbon and Nitrogen Cycling in Snow-Covered Environments. <i>Geography Compass</i> , 2011, 5, 682-699.	2.7	177
9	Interactions Between Biogeochemistry and Hydrologic Systems. <i>Annual Review of Environment and Resources</i> , 2009, 34, 65-96.	13.4	138
10	Ecohydrological controls on snowmelt partitioning in mixed-conifer subalpine forests. <i>Ecohydrology</i> , 2009, 2, 129-142.	2.4	137
11	Spatial scale dependence of ecohydrologically mediated water balance partitioning: A synthesis framework for catchment ecohydrology. <i>Water Resources Research</i> , 2011, 47, .	4.2	133
12	Mineral nitrogen transformations in and under seasonal snow in a high-elevation catchment in the Rocky Mountains, United States. <i>Water Resources Research</i> , 1996, 32, 3161-3171.	4.2	114
13	Controls on nitrogen flux in alpine/subalpine watersheds of Colorado. <i>Water Resources Research</i> , 2000, 36, 37-47.	4.2	113
14	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemez-Santa Catalina Critical Zone Observatory. <i>Vadose Zone Journal</i> , 2011, 10, 884-899.	2.2	111
15	Changes in snow accumulation and ablation following the Las Conchas Forest Fire, New Mexico, USA. <i>Ecohydrology</i> , 2014, 7, 440-452.	2.4	108
16	Influence of groundwater flowpaths, residence times and nutrients on the extent of microbial methanogenesis in coal beds: Powder River Basin, USA. <i>Chemical Geology</i> , 2011, 284, 45-61.	3.3	102
17	Nitrogen and Carbon Soil Dynamics in Response to Climate Change in a High-Elevation Ecosystem in the Rocky Mountains, U.S.A.. <i>Arctic and Alpine Research</i> , 1998, 30, 26.	1.3	100
18	Recent tree die-off has little effect on streamflow in contrast to expected increases from historical studies. <i>Water Resources Research</i> , 2015, 51, 9775-9789.	4.2	97

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19	Soil moisture response to snowmelt timing in mixed-conifer subalpine forests. <i>Hydrological Processes</i> , 2015, 29, 2782-2798.	2.6	92
20	Plant hydraulics improves and topography mediates prediction of aspen mortality in southwestern USA. <i>New Phytologist</i> , 2017, 213, 113-127.	7.3	77
21	Natural variability in N export from headwater catchments: snow cover controls on ecosystem N retention. <i>Hydrological Processes</i> , 1999, 13, 2191-2201.	2.6	76
22	Coevolution of nonlinear trends in vegetation, soils, and topography with elevation and slope aspect: A case study in the sky islands of southern Arizona. <i>Journal of Geophysical Research F: Earth Surface</i> , 2013, 118, 741-758.	2.8	76
23	Quantifying regional scale ecosystem response to changes in precipitation: Not all rain is created equal. <i>Water Resources Research</i> , 2011, 47, .	4.2	69
24	Rare earth elements as reactive tracers of biogeochemical weathering in forested rhyolitic terrain. <i>Chemical Geology</i> , 2015, 391, 19-32.	3.3	67
25	Seasonal and interannual variation of streamflow pathways and biogeochemical implications in semi-arid, forested catchments in Valles Caldera, New Mexico. <i>Ecohydrology</i> , 2008, 1, 239-252.	2.4	64
26	Topographically driven differences in energy and water constrain climatic control on forest carbon sequestration. <i>Ecosphere</i> , 2017, 8, e01797.	2.2	61
27	Stream water carbon controls in seasonally snow-covered mountain catchments: impact of inter-annual variability of water fluxes, catchment aspect and seasonal processes. <i>Biogeochemistry</i> , 2014, 118, 273-290.	3.5	60
28	Critical Zone Services: Expanding Context, Constraints, and Currency beyond Ecosystem Services. <i>Vadose Zone Journal</i> , 2015, 14, vj2014.10.0142.	2.2	60
29	Physical and biological controls on trace gas fluxes in semi-arid urban ephemeral waterways. <i>Biogeochemistry</i> , 2014, 121, 189-207.	3.5	58
30	Geochemical evolution of the Critical Zone across variable time scales informs concentration-discharge relationships: Critical Zone Observatory. <i>Water Resources Research</i> , 2017, 53, 4169-4196.	4.2	57
31	Influence of terrain aspect on water partitioning, vegetation structure and vegetation greening in high-elevation catchments in northern New Mexico. <i>Ecohydrology</i> , 2016, 9, 782-795.	2.4	55
32	Regional sensitivities of seasonal snowpack to elevation, aspect, and vegetation cover in western North America. <i>Water Resources Research</i> , 2017, 53, 6908-6926.	4.2	54
33	Organic and inorganic nitrogen pools in talus fields and subtalus water, Green Lakes Valley, Colorado Front Range. <i>Hydrological Processes</i> , 1997, 11, 1747-1760.	2.6	50
34	Effects of vegetation, albedo, and solar radiation sheltering on the distribution of snow in the Valles Caldera, New Mexico. <i>Ecohydrology</i> , 2008, 1, 253-270.	2.4	50
35	Climatic and landscape influences on soil moisture are primary determinants of soil carbon fluxes in seasonally snow-covered forest ecosystems. <i>Biogeochemistry</i> , 2015, 123, 447-465.	3.5	50
36	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , 2015, 244, 190-203.	2.6	47

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37	High Atmospheric Nitrate Inputs and Nitrogen Turnover in Semi-arid Urban Catchments. <i>Ecosystems</i> , 2014, 17, 1309-1325.	3.4	46
38	Climatic and landscape controls on water transit times and silicate mineral weathering in the critical zone. <i>Water Resources Research</i> , 2015, 51, 6036-6051.	4.2	43
39	Dissolved organic matter transport reflects hillslope to stream connectivity during snowmelt in a montane catchment. <i>Water Resources Research</i> , 2016, 52, 4905-4923.	4.2	38
40	Land cover controls on summer discharge and runoff solution chemistry of semi-arid urban catchments. <i>Journal of Hydrology</i> , 2013, 485, 37-53.	5.4	35
41	Unraveling the mysteries of the large watershed black box: Implications for the streamflow response to climate and landscape perturbations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	34
42	Persistent Urban Influence on Surface Water Quality via Impacted Groundwater. <i>Environmental Science & Technology</i> , 2017, 51, 9477-9487.	10.0	34
43	Stream Nitrogen Inputs Reflect Groundwater Across a Snowmelt-Dominated Montane to Urban Watershed. <i>Environmental Science & Technology</i> , 2016, 50, 1137-1146.	10.0	31
44	Spatial variability in dissolved organic matter and inorganic nitrogen concentrations in a semiarid stream, San Pedro River, Arizona. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	29
45	Combined impact of catchment size, land cover, and precipitation on streamflow and total dissolved nitrogen: A global comparative analysis. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1109-1121.	4.9	27
46	Nitrogen Sources and Sinks Within the Middle Rio Grande, New Mexico. <i>Journal of the American Water Resources Association</i> , 2007, 43, 850-863.	2.4	25
47	Nitrogen dynamics in two high elevation catchments during spring snowmelt 1996, Rocky Mountains, Colorado. <i>Hydrological Processes</i> , 1999, 13, 2203-2214.	2.6	23
48	Estimated Ultraviolet Radiation Doses in Wetlands in Six National Parks. <i>Ecosystems</i> , 2005, 8, 462-477.	3.4	23
49	Monitoring the timing of snowmelt and the initiation of streamflow using a distributed network of temperature/light sensors. <i>Ecohydrology</i> , 2008, 1, 215-224.	2.4	22
50	Temporal patterns and controls on runoff magnitude and solution chemistry of urban catchments in the semiarid southwestern United States. <i>Hydrological Processes</i> , 2013, 27, 995-1010.	2.6	21
51	Hillslope Hydrology Influences the Spatial and Temporal Patterns of Remotely Sensed Ecosystem Productivity. <i>Water Resources Research</i> , 2020, 56, e2020WR027630.	4.2	21
52	Seasonal variability in the concentration and flux of organic matter and inorganic nitrogen in a semiarid catchment, San Pedro River, Arizona. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	18
53	A net ecosystem carbon budget for snow dominated forested headwater catchments: linking water and carbon fluxes to critical zone carbon storage. <i>Biogeochemistry</i> , 2018, 138, 225-243.	3.5	17
54	Plant Hydraulic Stress Explained Tree Mortality and Tree Size Explained Beetle Attack in a Mixed Conifer Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3555-3568.	3.0	16

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55	Interactive Effects of Vegetation Type and Topographic Position on Nitrogen Availability and Loss in a Temperate Montane Ecosystem. <i>Ecosystems</i> , 2017, 20, 1073-1088.	3.4	15
56	Groundwaterâ€Mediated Memory of Past Climate Controls Water Yield in Snowmeltâ€Dominated Catchments. <i>Water Resources Research</i> , 2021, 57, e2021WR030605.	4.2	14
57	Spatial and Temporal Variability in the Amount and Source of Dissolved Organic Carbon: Implications for Ultraviolet Exposure in Amphibian Habitats. <i>Ecosystems</i> , 2005, 8, 478-487.	3.4	13
58	Quantifying the effects of stream channels on storm water quality in a semi-arid urban environment. <i>Journal of Hydrology</i> , 2012, 470-471, 98-110.	5.4	13
59	Winter production of CO. <i>Oecologia</i> , 1997, 110, 403.	2.0	12
60	Lateral subsurface flow modulates forest mortality risk to future climate and elevated CO ₂ . <i>Environmental Research Letters</i> , 2021, 16, 084015.	5.2	10
61	Riparian zones attenuate nitrogen loss following bark beetleâ€induced lodgepole pine mortality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 933-948.	3.0	9
62	Influence of climate variability on water partitioning and effective energy and mass transfer in a semi-arid critical zone. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1103-1115.	4.9	8
63	Increasing plant water stress and decreasing summer streamflow in response to a warmer and wetter climate in seasonally snowâ€covered forests. <i>Ecohydrology</i> , 2021, 14, .	2.4	7
64	Strontium isotope dynamics reveal streamflow contributions from shallow flow paths during snowmelt in a montane watershed, Provo River, Utah, USA. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
65	The Wasatch Environmental Observatory: A mountain to urban research network in the semiâ€arid western US. <i>Hydrological Processes</i> , 2021, 35, e14352.	2.6	2