Paul D Brooks

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Strontium isotope dynamics reveal streamflow contributions from shallow flow paths during snowmelt in a montane watershed, Provo River, Utah, USA. Hydrological Processes, 2022, 36, .	2.6	3
2	Increasing plant water stress and decreasing summer streamflow in response to a warmer and wetter climate in seasonally snowâ€covered forests. Ecohydrology, 2021, 14, .	2.4	7
3	Lateral subsurface flow modulates forest mortality risk to future climate and elevated CO ₂ . Environmental Research Letters, 2021, 16, 084015.	5.2	10
4	Groundwaterâ€Mediated Memory of Past Climate Controls Water Yield in Snowmeltâ€Dominated Catchments. Water Resources Research, 2021, 57, e2021WR030605.	4.2	14
5	The Wasatch Environmental Observatory: A mountain to urban research network in the semiâ€arid western US. Hydrological Processes, 2021, 35, e14352.	2.6	2
6	Hillslope Hydrology Influences the Spatial and Temporal Patterns of Remotely Sensed Ecosystem Productivity. Water Resources Research, 2020, 56, e2020WR027630.	4.2	21
7	Plant Hydraulic Stress Explained Tree Mortality and Tree Size Explained Beetle Attack in a Mixed Conifer Forest. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3555-3568.	3.0	16
8	A net ecosystem carbon budget for snow dominated forested headwater catchments: linking water and carbon fluxes to critical zone carbon storage. Biogeochemistry, 2018, 138, 225-243.	3.5	17
9	Interactive Effects of Vegetation Type and Topographic Position on Nitrogen Availability and Loss in a Temperate Montane Ecosystem. Ecosystems, 2017, 20, 1073-1088.	3.4	15
10	Geochemical evolution of the <scp>C</scp> ritical <scp>Z</scp> one across variable time scales informs concentrationâ€discharge relationships: <scp>J</scp> emez <scp>R</scp> iver <scp>B</scp> asin <scp>C</scp> ritical <scp>Z</scp> one <scp>O</scp> bservatory. Water Resources Research, 2017, 53, 4169-4196.	4.2	57
11	Persistent Urban Influence on Surface Water Quality via Impacted Groundwater. Environmental Science & Technology, 2017, 51, 9477-9487.	10.0	34
12	Topographically driven differences in energy and water constrain climatic control on forest carbon sequestration. Ecosphere, 2017, 8, e01797.	2.2	61
13	Plant hydraulics improves and topography mediates prediction of aspen mortality in southwestern <scp>USA</scp> . New Phytologist, 2017, 213, 113-127.	7.3	77
14	Regional sensitivities of seasonal snowpack to elevation, aspect, and vegetation cover in western <scp>N</scp> orth <scp>A</scp> merica. Water Resources Research, 2017, 53, 6908-6926.	4.2	54
15	Influence of climate variability on water partitioning and effective energy and mass transfer in a semi-arid critical zone. Hydrology and Earth System Sciences, 2016, 20, 1103-1115.	4.9	8
16	Influence of terrain aspect on water partitioning, vegetation structure and vegetation greening in highâ€elevation catchments in northern New Mexico. Ecohydrology, 2016, 9, 782-795.	2.4	55
17	Dissolved organic matter transport reflects hillslope to stream connectivity during snowmelt in a montane catchment. Water Resources Research, 2016, 52, 4905-4923.	4.2	38
18	Riparian zones attenuate nitrogen loss following bark beetleâ€induced lodgepole pine mortality. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 933-948.	3.0	9

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19	Stream Nitrogen Inputs Reflect Groundwater Across a Snowmelt-Dominated Montane to Urban Watershed. Environmental Science & Technology, 2016, 50, 1137-1146.	10.0	31
20	Recent tree dieâ€off has little effect on streamflow in contrast to expected increases from historical studies. Water Resources Research, 2015, 51, 9775-9789.	4.2	97
21	Climatic and landscape controls on water transit times and silicate mineral weathering in the critical zone. Water Resources Research, 2015, 51, 6036-6051.	4.2	43
22	Critical Zone Services: Expanding Context, Constraints, and Currency beyond Ecosystem Services. Vadose Zone Journal, 2015, 14, vzj2014.10.0142.	2.2	60
23	Soil moisture response to snowmelt timing in mixedâ€conifer subalpine forests. Hydrological Processes, 2015, 29, 2782-2798.	2.6	92
24	Combined impact of catchment size, land cover, and precipitation on streamflow and total dissolved nitrogen: A global comparative analysis. Global Biogeochemical Cycles, 2015, 29, 1109-1121.	4.9	27
25	Hydrological partitioning in the critical zone: Recent advances and opportunities for developing transferable understanding of water cycle dynamics. Water Resources Research, 2015, 51, 6973-6987.	4.2	189
26	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. Geomorphology, 2015, 244, 190-203.	2.6	47
27	Climatic and landscape influences on soil moisture are primary determinants of soil carbon fluxes in seasonally snow-covered forest ecosystems. Biogeochemistry, 2015, 123, 447-465.	3.5	50
28	Rare earth elements as reactive tracers of biogeochemical weathering in forested rhyolitic terrain. Chemical Geology, 2015, 391, 19-32.	3.3	67
29	High Atmospheric Nitrate Inputs and Nitrogen Turnover in Semi-arid Urban Catchments. Ecosystems, 2014, 17, 1309-1325.	3.4	46
30	Stream water carbon controls in seasonally snow-covered mountain catchments: impact of inter-annual variability of water fluxes, catchment aspect and seasonal processes. Biogeochemistry, 2014, 118, 273-290.	3.5	60
31	Physical and biological controls on trace gas fluxes in semi-arid urban ephemeral waterways. Biogeochemistry, 2014, 121, 189-207.	3.5	58
32	Changes in snow accumulation and ablation following the Las Conchas Forest Fire, New Mexico, USA. Ecohydrology, 2014, 7, 440-452.	2.4	108
33	Temporal patterns and controls on runoff magnitude and solution chemistry of urban catchments in the semiarid southwestern United States. Hydrological Processes, 2013, 27, 995-1010.	2.6	21
34	Land cover controls on summer discharge and runoff solution chemistry of semi-arid urban catchments. Journal of Hydrology, 2013, 485, 37-53.	5.4	35
35	Coevolution of nonlinear trends in vegetation, soils, and topography with elevation and slope aspect: A case study in the sky islands of southern Arizona. Journal of Geophysical Research F: Earth Surface, 2013, 118, 741-758.	2.8	76
36	Cascading impacts of bark beetleâ€caused tree mortality on coupled biogeophysical and biogeochemical processes. Frontiers in Ecology and the Environment, 2012, 10, 416-424.	4.0	215

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37	Unraveling the mysteries of the large watershed black box: Implications for the streamflow response to climate and landscape perturbations. Geophysical Research Letters, 2012, 39, .	4.0	34
38	Quantifying the effects of stream channels on storm water quality in a semi-arid urban environment. Journal of Hydrology, 2012, 470-471, 98-110.	5.4	13
39	Quantifying regional scale ecosystem response to changes in precipitation: Not all rain is created equal. Water Resources Research, 2011, 47, .	4.2	69
40	Spatial scale dependence of ecohydrologically mediated water balance partitioning: A synthesis framework for catchment ecohydrology. Water Resources Research, 2011, 47, .	4.2	133
41	Influence of groundwater flowpaths, residence times and nutrients on the extent of microbial methanogenesis in coal beds: Powder River Basin, USA. Chemical Geology, 2011, 284, 45-61.	3.3	102
42	Carbon and Nitrogen Cycling in Snow-Covered Environments. Geography Compass, 2011, 5, 682-699.	2.7	177
43	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemez–Santa Catalina Critical Zone Observatory. Vadose Zone Journal, 2011, 10, 884-899.	2.2	111
44	Ecohydrological controls on snowmelt partitioning in mixedâ€conifer subâ€alpine forests. Ecohydrology, 2009, 2, 129-142.	2.4	137
45	Interactions Between Biogeochemistry and Hydrologic Systems. Annual Review of Environment and Resources, 2009, 34, 65-96.	13.4	138
46	Monitoring the timing of snowmelt and the initiation of streamflow using a distributed network of temperature/light sensors. Ecohydrology, 2008, 1, 215-224.	2.4	22
47	Seasonal and interannual variation of streamflow pathways and biogeochemical implications in semiâ€arid, forested catchments in Valles Caldera, New Mexico. Ecohydrology, 2008, 1, 239-252.	2.4	64
48	Effects of vegetation, albedo, and solar radiation sheltering on the distribution of snow in the Valles Caldera, New Mexico. Ecohydrology, 2008, 1, 253-270.	2.4	50
49	Spatial variability in dissolved organic matter and inorganic nitrogen concentrations in a semiarid stream, San Pedro River, Arizona. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	29
50	Seasonal variability in the concentration and flux of organic matter and inorganic nitrogen in a semiarid catchment, San Pedro River, Arizona. Journal of Geophysical Research, 2007, 112, .	3.3	18
51	Nitrogen Sources and Sinks Within the Middle Rio Grande, New Mexico. Journal of the American Water Resources Association, 2007, 43, 850-863.	2.4	25
52	Carbon limitation of soil respiration under winter snowpacks: potential feedbacks between growing season and winter carbon fluxes. Global Change Biology, 2005, 11, 231-238.	9.5	185
53	Estimated Ultraviolet Radiation Doses in Wetlands in Six National Parks. Ecosystems, 2005, 8, 462-477.	3.4	23
54	Spatial and Temporal Variability in the Amount and Source of Dissolved Organic Carbon: Implications for Ultraviolet Exposure in Amphibian Habitats. Ecosystems, 2005, 8, 478-487.	3.4	13

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55	Controls on nitrogen flux in alpine/subalpine watersheds of Colorado. Water Resources Research, 2000, 36, 37-47.	4.2	113
56	Snowpack controls on nitrogen cycling and export in seasonally snow-covered catchments. Hydrological Processes, 1999, 13, 2177-2190.	2.6	244
57	Natural variability in N export from headwater catchments: snow cover controls on ecosystem N retention. Hydrological Processes, 1999, 13, 2191-2201.	2.6	76
58	Nitrogen dynamics in two high elevation catchments during spring snowmelt 1996, Rocky Mountains, Colorado. Hydrological Processes, 1999, 13, 2203-2214.	2.6	23
59	Inorganic nitrogen and microbial biomass dynamics before and during spring snowmelt. Biogeochemistry, 1998, 43, 1-15.	3.5	312
60	Nitrogen and Carbon Soil Dynamics in Response to Climate Change in a High-Elevation Ecosystem in the Rocky Mountains, U.S.A Arctic and Alpine Research, 1998, 30, 26.	1.3	100
61	Winter production of CO. Oecologia, 1997, 110, 403.	2.0	12
62	Winter production of CO2 and N2O from alpine tundra: environmental controls and relationship to inter-system C and N fluxes. Oecologia, 1997, 110, 403-413.	2.0	253
63	Organic and inorganic nitrogen pools in talus fields and subtalus water, Green Lakes Valley, Colorado Front Range. Hydrological Processes, 1997, 11, 1747-1760.	2.6	50
64	Mineral nitrogen transformations in and under seasonal snow in a high-elevation catchment in the Rocky Mountains, United States. Water Resources Research, 1996, 32, 3161-3171.	4.2	114
65	Microbial activity under alpine snowpacks, Niwot Ridge, Colorado. Biogeochemistry, 1996, 32, 93.	3.5	283