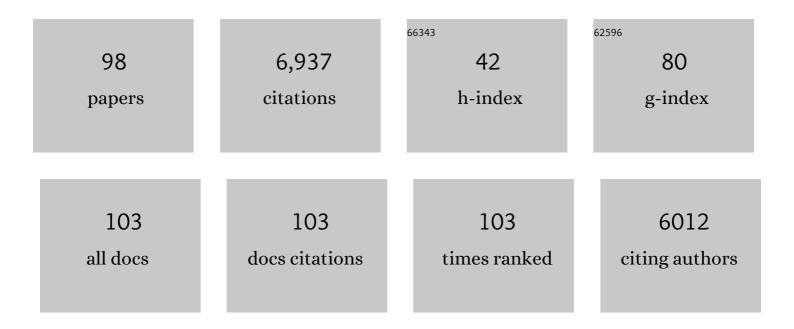
## Brian L Mcglynn

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/127552/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	The Maimai <scp>M8</scp> experimental catchment database: Forty years of processâ€based research on steep, wet hillslopes. Hydrological Processes, 2021, 35, e14112.	2.6	4
2	Mountaintop mining legacies constrain ecological, hydrological and biogeochemical recovery trajectories. Environmental Research Letters, 2021, 16, 075004.	5.2	7
3	Soil Moisture Responses to Rainfall: Implications for Runoff Generation. Water Resources Research, 2021, 57, e2020WR028827.	4.2	38
4	Temporally Variable Stream Width and Surface Area Distributions in a Headwater Catchment. Water Resources Research, 2019, 55, 7166-7181.	4.2	17
5	From Points to Patterns: Using Groundwater Time Series Clustering to Investigate Subsurface Hydrological Connectivity and Runoff Source Area Dynamics. Water Resources Research, 2019, 55, 5784-5806.	4.2	34
6	Lateral, Vertical, and Longitudinal Source Area Connectivity Drive Runoff and Carbon Export Across Watershed Scales. Water Resources Research, 2018, 54, 1576-1598.	4.2	53
7	Hydrologic and biogeochemical drivers of dissolved organic carbon and nitrate uptake in a headwater stream network. Biogeochemistry, 2018, 138, 23-48.	3.5	19
8	Typecasting catchments: Classification, directionality, and the pursuit of universality. Advances in Water Resources, 2018, 112, 245-253.	3.8	8
9	Landscape analysis of soil methane flux across complex terrain. Biogeosciences, 2018, 15, 3143-3167.	3.3	22
10	The Relative Influence of Storm and Landscape Characteristics on Shallow Groundwater Responses in Forested Headwater Catchments. Water Resources Research, 2018, 54, 9883-9900.	4.2	13
11	Nested Scales of Spatial and Temporal Variability of Soil Water Content Across a Semiarid Montane Catchment. Water Resources Research, 2018, 54, 7960-7980.	4.2	20
12	Pyrite Oxidation Drives Exceptionally High Weathering Rates and Geologic CO <sub>2</sub> Release in Mountaintopâ€Mined Landscapes. Global Biogeochemical Cycles, 2018, 32, 1182-1194.	4.9	43
13	A software tool to assess uncertainty in transient-storage model parameters using Monte Carlo simulations. Freshwater Science, 2017, 36, 195-217.	1.8	27
14	Groundwater similarity across a watershed derived from timeâ€warped and flowâ€corrected time series. Water Resources Research, 2017, 53, 3921-3940.	4.2	26
15	Ephemeral and intermittent runoff generation processes in a low relief, highly weathered catchment. Water Resources Research, 2017, 53, 7055-7077.	4.2	74
16	Colimitation and the coupling of N and P uptake kinetics in oligotrophic mountain streams. Biogeochemistry, 2017, 132, 165-184.	3.5	14
17	Timeâ€lapse animation of hillslope groundwater dynamics details eventâ€based and seasonal bidirectional stream–groundwater gradients. Hydrological Processes, 2017, 31, 1983-1985.	2.6	5
18	Creating a More Perennial Problem? Mountaintop Removal Coal Mining Enhances and Sustains Saline Baseflows of Appalachian Watersheds. Environmental Science & Technology, 2017, 51, 8324-8334.	10.0	43

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19	Bidirectional stream–groundwater flow in response to ephemeral and intermittent streamflow and groundwater seasonality. Hydrological Processes, 2017, 31, 3871-3880.	2.6	36
20	Complex terrain influences ecosystem carbon responses to temperature and precipitation. Global Biogeochemical Cycles, 2017, 31, 1306-1317.	4.9	15
21	A nurse-led multidisciplinary team approach in urology-oncology: Addressing the new cancer strategy. Journal of Clinical Urology, 2017, 10, 449-456.	0.1	3
22	Characterizing and reducing equifinality by constraining a distributed catchment model with regional signatures, local observations, and process understanding. Hydrology and Earth System Sciences, 2017, 21, 3325-3352.	4.9	49
23	The impacts of mountain pine beetle disturbance on the energy balance of snow during the melt period. Hydrological Processes, 2016, 30, 588-602.	2.6	11
24	Downstream Dissipation of Storm Flow Heat Pulses: A Case Study and its Landscape‣evel Implications. Journal of the American Water Resources Association, 2016, 52, 281-297.	2.4	26
25	Watershed structural influences on the distributions of stream network water and solute travel times under baseflow conditions. Hydrological Processes, 2016, 30, 2671-2685.	2.6	22
26	Diagnostic calibration and crossâ€catchment transferability of a simple processâ€consistent hydrologic model. Hydrological Processes, 2016, 30, 5027-5038.	2.6	9
27	Variability in isotopic composition of base flow in two headwater streams of the southern Appalachians. Water Resources Research, 2016, 52, 4264-4279.	4.2	19
28	Spatiotemporal processes that contribute to hydrologic exchange between hillslopes, valley bottoms, and streams. Water Resources Research, 2016, 52, 4628-4645.	4.2	35
29	The influence of an inâ€network lake on the timing, form, and magnitude of downstream dissolved organic carbon and nutrient flux. Water Resources Research, 2016, 52, 8668-8684.	4.2	14
30	A Comparison of Methods Reveals that Enhanced Diffusion Helps Explain Cold-Season Soil CO2 Efflux in a Lodgepole Pine Ecosystem. Cold Regions Science and Technology, 2016, 121, 16-24.	3.5	10
31	Watershed memory at the <scp>C</scp> oweeta <scp>H</scp> ydrologic <scp>L</scp> aboratory: The effect of past precipitation and storage on hydrologic response. Water Resources Research, 2016, 52, 1673-1695.	4.2	54
32	Deep Impact: Effects of Mountaintop Mining on Surface Topography, Bedrock Structure, and Downstream Waters. Environmental Science & Technology, 2016, 50, 2064-2074.	10.0	82
33	The spatial and temporal evolution of contributing areas. Water Resources Research, 2015, 51, 4550-4573.	4.2	74
34	Water's Way at Sleepers River watershed – revisiting flow generation in a postâ€glacial landscape, Vermont USA. Hydrological Processes, 2015, 29, 3447-3459.	2.6	53
35	Modelâ€based analysis of the influence of catchment properties on hydrologic partitioning across five mountain headwater subcatchments. Water Resources Research, 2015, 51, 4109-4136.	4.2	34
36	Variations in Streamflow Response to Large Hurricane-Season Storms in a Southeastern U.S. Watershed. Journal of Hydrometeorology, 2015, 16, 55-69.	1.9	32

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37	Land–atmosphere carbon and water flux relationships to vapor pressure deficit, soil moisture, and stream flow. Agricultural and Forest Meteorology, 2015, 208, 108-117.	4.8	28
38	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 1272-1285.	1.4	242
39	Landscape Position Influences Microbial Composition and Function via Redistribution of Soil Water across a Watershed. Applied and Environmental Microbiology, 2015, 81, 8457-8468.	3.1	22
40	Lateral inflows, streamâ€groundwater exchange, and network geometry influence stream water composition. Water Resources Research, 2014, 50, 4603-4623.	4.2	34
41	A service evaluation describing a nurse-led prostate cancer service in NHS, Ayrshire and Arran. International Journal of Urological Nursing, 2014, 8, 166-180.	0.2	11
42	ESTIMATING THERMAL REGIMES OF BULL TROUT AND ASSESSING THE POTENTIAL EFFECTS OF CLIMATE WARMING ON CRITICAL HABITATS. River Research and Applications, 2014, 30, 204-216.	1.7	68
43	A simple framework to estimate distributed soil temperature from discrete air temperature measurements in dataâ€scarce regions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 407-417.	3.3	31
44	Vegetation and topographic influences on the connectivity of shallow groundwater between hillslopes and streams. Ecohydrology, 2014, 7, 887-895.	2.4	46
45	Merging perspectives in the catchment sciences: the US-Japan Joint Seminar on catchment hydrology and forest biogeochemistry. Hydrological Processes, 2014, 28, 2878-2880.	2.6	1
46	Calibrating hydrologic models in flow-corrected time. Water Resources Research, 2014, 50, 748-753.	4.2	4
47	Ecohydrology of an outbreak: mountain pine beetle impacts trees in drier landscape positions first. Ecohydrology, 2013, 6, 444-454.	2.4	46
48	Variations in surface water-ground water interactions along a headwater mountain stream: Comparisons between transient storage and water balance analyses. Water Resources Research, 2013, 49, 3359-3374.	4.2	71
49	A Beta Regression Model for Improved Solar Radiation Predictions. Journal of Applied Meteorology and Climatology, 2013, 52, 1923-1938.	1.5	9
50	Do transient storage parameters directly scale in longer, combined stream reaches? Reach length dependence of transient storage interpretations. Journal of Hydrology, 2013, 483, 16-25.	5.4	28
51	Nitrogen production from geochemical weathering of rocks in southwest Montana, USA. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1068-1078.	3.0	15
52	Intrastream variability in solute transport: Hydrologic and geomorphic controls on solute retention. Journal of Geophysical Research F: Earth Surface, 2013, 118, 413-422.	2.8	19
53	A data acquisition framework for runoff prediction in ungauged basins. , 2013, , 29-52.		11
54	Using field data to inform and evaluate a new model of catchment hydrologic connectivity. Water Resources Research, 2013, 49, 6834-6846.	4.2	30

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55	Land use/land cover and scale influences on inâ€stream nitrogen uptake kinetics. Journal of Geophysical Research, 2012, 117, .	3.3	21
56	Exploring changes in the spatial distribution of stream baseflow generation during a seasonal recession. Water Resources Research, 2012, 48, .	4.2	73
57	Complex terrain leads to bidirectional responses of soil respiration to interâ€annual water availability. Global Change Biology, 2012, 18, 749-756.	9.5	40
58	Hydrologic response to channel reconfiguration on Silver Bow Creek, Montana. Journal of Hydrology, 2012, 438-439, 125-136.	5.4	25
59	Active surveillance for prostate cancer: Scottish experience Journal of Clinical Oncology, 2012, 30, 167-167.	1.6	Ο
60	Quantifying watershed sensitivity to spatially variable N loading and the relative importance of watershed N retention mechanisms. Water Resources Research, 2011, 47, .	4.2	28
61	A watershedâ€scale assessment of a process soil CO <sub>2</sub> production and efflux model. Water Resources Research, 2011, 47, .	4.2	26
62	Hierarchical controls on runoff generation: Topographically driven hydrologic connectivity, geology, and vegetation. Water Resources Research, 2011, 47, .	4.2	227
63	Streamâ€groundwater exchange and hydrologic turnover at the network scale. Water Resources Research, 2011, 47, .	4.2	58
64	Landscape structure and climate influences on hydrologic response. Water Resources Research, 2011, 47, .	4.2	76
65	On the spatial heterogeneity of net ecosystem productivity in complex landscapes. Ecosphere, 2011, 2, art86.	2.2	22
66	Landscape structure, groundwater dynamics, and soil water content influence soil respiration across riparian–hillslope transitions in the Tenderfoot Creek Experimental Forest, Montana. Hydrological Processes, 2011, 25, 811-827.	2.6	45
67	Terrain-based Predictive Modeling of Riparian Vegetation in a Northern Rocky Mountain Watershed. Wetlands, 2010, 30, 621-633.	1.5	17
68	Variable flushing mechanisms and landscape structure control stream DOC export during snowmelt in a set of nested catchments. Biogeochemistry, 2010, 99, 193-211.	3.5	80
69	An analysis of alternative conceptual models relating hyporheic exchange flow to diel fluctuations in discharge during baseflow recession. Hydrological Processes, 2010, 24, 686-694.	2.6	61
70	Tracer Additions for Spiraling Curve Characterization (TASCC): Quantifying stream nutrient uptake kinetics from ambient to saturation. Limnology and Oceanography: Methods, 2010, 8, 484-498.	2.0	99
71	Separating physical and biological nutrient retention and quantifying uptake kinetics from ambient to saturation in successive mountain stream reaches. Journal of Geophysical Research, 2010, 115, .	3.3	47
72	Hillslope hydrologic connectivity controls riparian groundwater turnover: Implications of catchment structure for riparian buffering and stream water sources. Water Resources Research, 2010, 46, .	4.2	165

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73	Spatial and temporal controls on watershed ecohydrology in the northern Rocky Mountains. Water Resources Research, 2010, 46, .	4.2	50
74	The future of hydrology: An evolving science for a changing world. Water Resources Research, 2010, 46, .	4.2	487
75	Calculating terrain indices along streams: A new method for separating stream sides. Water Resources Research, 2010, 46, .	4.2	22
76	Differential soil respiration responses to changing hydrologic regimes. Water Resources Research, 2009, 45, .	4.2	41
77	Landscape structure control on soil CO <sub>2</sub> efflux variability in complex terrain: Scaling from point observations to watershed scale fluxes. Journal of Geophysical Research, 2009, 114, .	3.3	83
78	Seasonality in spatial variability and influence of land use/land cover and watershed characteristics on stream water nitrate concentrations in a developing watershed in the Rocky Mountain West. Water Resources Research, 2009, 45, .	4.2	50
79	Hydrologic connectivity between landscapes and streams: Transferring reach―and plotâ€scale understanding to the catchment scale. Water Resources Research, 2009, 45, .	4.2	430
80	Channel water balance and exchange with subsurface flow along a mountain headwater stream in Montana, United States. Water Resources Research, 2009, 45, .	4.2	162
81	Variability in soil respiration across riparian-hillslope transitions. Biogeochemistry, 2008, 91, 51-70.	3.5	60
82	Identifying Linkages Between Land Use, Geomorphology, and Aquatic Habitat in a Mixed-Use Watershed. Environmental Management, 2008, 42, 867-876.	2.7	6
83	Interpretation and evaluation of combined measurement techniques for soil CO <sub>2</sub> efflux: Discrete surface chambers and continuous soil CO <sub>2</sub> concentration probes. Journal of Geophysical Research, 2008, 113, .	3.3	54
84	A new triangular multiple flow direction algorithm for computing upslope areas from gridded digital elevation models. Water Resources Research, 2007, 43, .	4.2	275
85	Stream gains and losses across a mountainâ€ŧoâ€valley transition: Impacts on watershed hydrology and stream water chemistry. Water Resources Research, 2007, 43, .	4.2	96
86	Diurnal hysteresis between soil CO <sub>2</sub> and soil temperature is controlled by soil water content. Geophysical Research Letters, 2007, 34, .	4.0	137
87	Flow velocity and the hydrologic behavior of streams during baseflow. Geophysical Research Letters, 2007, 34, .	4.0	57
88	Taking the pulse of hydrology education. Hydrological Processes, 2007, 21, 1789-1792.	2.6	40
89	A stream tracer technique employing ionic tracers and specific conductance data applied to the Maimai catchment, New Zealand. Hydrological Processes, 2005, 19, 2491-2506.	2.6	42
90	The role of topography on catchment-scale water residence time. Water Resources Research, 2005, 41, .	4.2	571

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91	Scale effects on headwater catchment runoff timing, flow sources, and groundwater-streamflow relations. Water Resources Research, 2004, 40, .	4.2	176
92	The development and audit of a nurse-led urology/oncology clinic. Nursing Times, 2004, 100, 54-6.	0.2	0
93	On the relationships between catchment scale and streamwater mean residence time. Hydrological Processes, 2003, 17, 175-181.	2.6	144
94	Distributed assessment of contributing area and riparian buffering along stream networks. Water Resources Research, 2003, 39, .	4.2	147
95	Role of discrete landscape units in controlling catchment dissolved organic carbon dynamics. Water Resources Research, 2003, 39, .	4.2	229
96	Quantifying the relative contributions of riparian and hillslope zones to catchment runoff. Water Resources Research, 2003, 39, .	4.2	269
97	How does rainfall become runoff? A combined tracer and runoff transfer function approach. Water Resources Research, 2003, 39, .	4.2	191
98	A review of the evolving perceptual model of hillslope flowpaths at the Maimai catchments, New Zealand. Journal of Hydrology, 2002, 257, 1-26.	5.4	216