

# Jeffrey J Mcdonnell

## List of Publications by Year in descending order

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Version: 2024-02-01

282  
papers

27,432  
citations

4370

86  
h-index

7136

153  
g-index

308  
all docs

308  
docs citations

308  
times ranked

13414  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sources and mean transit times of intermittent streamflow in semi-arid headwater catchments. <i>Journal of Hydrology</i> , 2022, 604, 127208.	2.3	7
2	Modeling streamflow variability at the regional scale: (1) perceptual model development through signature analysis. <i>Journal of Hydrology</i> , 2022, 605, 127287.	2.3	7
3	Modeling streamflow variability at the regional scale: (2) Development of a bespoke distributed conceptual model. <i>Journal of Hydrology</i> , 2022, 605, 127286.	2.3	3
4	Using stable isotopes to track hydrological processes at an oil sands mine, Alberta, Canada. <i>Journal of Hydrology: Regional Studies</i> , 2022, 40, 101032.	1.0	2
5	Toward a Closure of Catchment Mass Balance: Insight on the Missing Link From a Vegetated Lysimeter. <i>Water Resources Research</i> , 2022, 58, .	1.7	6
6	Phloem water isotopically different to xylem water: Potential causes and implications for ecohydrological tracing. <i>Ecohydrology</i> , 2022, 15, .	1.1	16
7	Tree water deficit and dynamic source water partitioning. <i>Hydrological Processes</i> , 2021, 35, .	1.1	34
8	On the use of leaf water to determine plant water source: A proof of concept. <i>Hydrological Processes</i> , 2021, 35, e14073.	1.1	20
9	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada – Part 2: Future change in cryosphere, vegetation, and hydrology. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1849-1882.	1.9	20
10	The evolving perceptual model of streamflow generation at the Panola Mountain Research Watershed. <i>Hydrological Processes</i> , 2021, 35, e14127.	1.1	12
11	Tracing and Closing the Water Balance in a Vegetated Lysimeter. <i>Water Resources Research</i> , 2021, 57, e2020WR029049.	1.7	20
12	Fill-and-Spill: A Process Description of Runoff Generation at the Scale of the Beholder. <i>Water Resources Research</i> , 2021, 57, e2020WR027514.	1.7	43
13	The Maimai experimental catchment database: Forty years of process-based research on steep, wet hillslopes. <i>Hydrological Processes</i> , 2021, 35, e14112.	1.1	4
14	Organic contamination detection for isotopic analysis of water by laser spectroscopy. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9118.	0.7	14
15	Crustal Groundwater Volumes Greater Than Previously Thought. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093549.	1.5	24
16	Tropical forest water source patterns revealed by stable isotopes: A preliminary analysis of 46 neighboring species. <i>Forest Ecology and Management</i> , 2021, 494, 119355.	1.4	11
17	Tracers reveal limited influence of plantation forests on surface runoff in a UK natural flood management catchment. <i>Journal of Hydrology: Regional Studies</i> , 2021, 36, 100834.	1.0	4
18	No evidence of isotopic fractionation in olive trees ( <i>Olea europaea</i> ): a stable isotope tracing experiment. <i>Hydrological Sciences Journal</i> , 2021, 66, 2415-2430.	1.2	11

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19	Isotopic fractionation from deep roots to tall shoots: A forensic analysis of xylem water isotope composition in mature tropical savanna trees. <i>Science of the Total Environment</i> , 2021, 795, 148675.	3.9	16
20	Depth distribution of soil water sourced by plants at the global scale: A new direct inference approach. <i>Ecohydrology</i> , 2020, 13, e2177.	1.1	43
21	The impact of across-slope forest strips on hillslope subsurface hydrological dynamics. <i>Journal of Hydrology</i> , 2020, 581, 124427.	2.3	11
22	Freshwater pearl mussels from northern Sweden serve as long-term, high-resolution stream water isotope recorders. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 673-696.	1.9	8
23	The Maimai Catchment New Zealand. , 2020, , 271-274.		1
24	Where Is the Bottom of a Watershed?. <i>Water Resources Research</i> , 2020, 56, e2019WR026010.	1.7	65
25	Further experiments comparing direct vapor equilibration and cryogenic vacuum distillation for plant water stable isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1850-1854.	0.7	6
26	Intercomparison of soil pore water extraction methods for stable isotope analysis and interpretation of hillslope runoff sources. <i>Hydrological Processes</i> , 2019, 33, 2939-2954.	1.1	14
27	Fill and Spill Hillslope Runoff Representation With a Richards Equation-Based Model. <i>Water Resources Research</i> , 2019, 55, 8445-8462.	1.7	28
28	Editorial Expression of Concern: Global analysis of streamflow response to forest management. <i>Nature</i> , 2019, 574, E7-E7.	13.7	3
29	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	1.2	474
30	The Demographics of Water: A Review of Water Ages in the Critical Zone. <i>Reviews of Geophysics</i> , 2019, 57, 800-834.	9.0	197
31	<sup>17</sup> O-excess as a detector for co-extracted organics in vapor analyses of plant isotope signatures. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1301-1310.	0.7	18
32	The role of vegetation, soils, and precipitation on water storage and hydrological services in Andean Páramo catchments. <i>Journal of Hydrology</i> , 2019, 572, 805-819.	2.3	41
33	Possible soil tension controls on the isotopic equilibrium fractionation factor for evaporation from soil. <i>Hydrological Processes</i> , 2019, 33, 1629-1634.	1.1	26
34	Characterizing the Fluxes and Age Distribution of Soil Water, Plant Water, and Deep Percolation in a Model Tropical Ecosystem. <i>Water Resources Research</i> , 2019, 55, 3307-3327.	1.7	73
35	A global assessment of freshwater mollusk shell oxygen isotope signatures and their relation to precipitation and stream water. <i>Scientific Reports</i> , 2019, 9, 4312.	1.6	21
36	The Role of Matric Potential, Solid Interfacial Chemistry, and Wettability on Isotopic Equilibrium Fractionation. <i>Vadose Zone Journal</i> , 2019, 18, 1-11.	1.3	19

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37	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019, 55, 1737-1772.	1.7	281
38	Velocities, Residence Times, Tracer Breakthroughs in a Vegetated Lysimeter: A Multitracer Experiment. <i>Water Resources Research</i> , 2019, 55, 21-33.	1.7	28
39	Water mining from the deep critical zone by apple trees growing on loess. <i>Hydrological Processes</i> , 2019, 33, 320-327.	1.1	96
40	Fifty years of recorded hillslope runoff on seasonally frozen ground: the Swift Current, Saskatchewan, Canada, dataset. <i>Earth System Science Data</i> , 2019, 11, 1375-1383.	3.7	0
41	A simple greenhouse experiment to explore the effect of cryogenic water extraction for tracing plant source water. <i>Ecohydrology</i> , 2018, 11, e1967.	1.1	23
42	A comparison of extraction systems for plant water stable isotope analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2018, 32, 1031-1044.	0.7	75
43	Fill and spill drives runoff connectivity over frozen ground. <i>Journal of Hydrology</i> , 2018, 558, 115-128.	2.3	35
44	The two water worlds hypothesis: Addressing multiple working hypotheses and proposing a way forward. <i>Ecohydrology</i> , 2018, 11, e1843.	1.1	90
45	Infiltration into frozen soil: From core-scale dynamics to hillslope-scale connectivity. <i>Hydrological Processes</i> , 2018, 32, 66-79.	1.1	20
46	No Direct Linkage Between Event-Based Runoff Generation and Groundwater Recharge on the Maimai Hillslope. <i>Water Resources Research</i> , 2018, 54, 8718-8733.	1.7	10
47	Inter-laboratory comparison of cryogenic water extraction systems for stable isotope analysis of soil water. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 3619-3637.	1.9	92
48	Freshwater pearl mussels as a stream water stable isotope recorder. <i>Ecohydrology</i> , 2018, 11, e2007.	1.1	11
49	Groundwater Subsidy From Headwaters to Their Parent Water Watershed: A Combined Field-Modeling Approach. <i>Water Resources Research</i> , 2018, 54, 5110-5125.	1.7	36
50	Woody bioenergy crop selection can have large effects on water yield: A southeastern United States case study. <i>Biomass and Bioenergy</i> , 2018, 117, 180-189.	2.9	20
51	Discussing scientific ethics: what would you do?. <i>Astronomy and Geophysics</i> , 2018, 59, 4.12-4.12.	0.1	0
52	Water sustainability and watershed storage. <i>Nature Sustainability</i> , 2018, 1, 378-379.	11.5	56
53	Contrasting Groundwater and Streamflow Ages at the Maimai Watershed. <i>Water Resources Research</i> , 2018, 54, 3937-3957.	1.7	37
54	A Numerical Water Tracer Model for Understanding Event-Scale Hydrometeorological Phenomena. <i>Journal of Hydrometeorology</i> , 2018, 19, 947-967.	0.7	8

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55	Potential risks to freshwater aquatic organisms following a silvicultural application of herbicides in Oregon's Coast Range. <i>Integrated Environmental Assessment and Management</i> , 2017, 13, 396-409.	1.6	9
56	Paper writing gone Hollywood. <i>Science</i> , 2017, 355, 102-102.	6.0	4
57	Bedrock geology controls on catchment storage, mixing, and release: A comparative analysis of 16 nested catchments. <i>Hydrological Processes</i> , 2017, 31, 1828-1845.	1.1	104
58	Prevalence and magnitude of groundwater use by vegetation: a global stable isotope meta-analysis. <i>Scientific Reports</i> , 2017, 7, 44110.	1.6	109
59	Global aquifers dominated by fossil groundwaters but wells vulnerable to modern contamination. <i>Nature Geoscience</i> , 2017, 10, 425-429.	5.4	210
60	Spatial and temporal patterns of soil water storage and vegetation water use in humid northern catchments. <i>Science of the Total Environment</i> , 2017, 595, 486-493.	3.9	72
61	Save northern high-latitude catchments. <i>Nature Geoscience</i> , 2017, 10, 324-325.	5.4	71
62	Climate change impacts on hillslope runoff on the northern Great Plains, 1962–2013. <i>Journal of Hydrology</i> , 2017, 550, 538-548.	2.3	37
63	Reply to comment by Fred L. Ogden et al. on “Beyond the SCS-CN method: A theoretical framework for spatially lumped rainfall-runoff response”. <i>Water Resources Research</i> , 2017, 53, 6351-6354.	1.7	4
64	A role for meta-analysis in hydrology. <i>Hydrological Processes</i> , 2017, 31, 3588-3591.	1.1	12
65	Plant source water apportionment using stable isotopes: A comparison of simple linear, two-compartment mixing model approaches. <i>Hydrological Processes</i> , 2017, 31, 3750-3758.	1.1	75
66	Beyond the water balance. <i>Nature Geoscience</i> , 2017, 10, 396-396.	5.4	52
67	Potential limitation of cryogenic vacuum extractions and spiked experiments. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 821-823.	0.7	28
68	Primary weathering rates, water transit times, and concentration-discharge relations: A theoretical analysis for the critical zone. <i>Water Resources Research</i> , 2017, 53, 942-960.	1.7	73
69	The sustainable scientist. <i>Science</i> , 2017, 357, 1202-1202.	6.0	0
70	HP Volume to honor Keith Beven. <i>Hydrological Processes</i> , 2017, 31, 3762-3764.	1.1	0
71	A portable experimental hillslope for frozen ground studies. <i>Hydrological Processes</i> , 2017, 31, 4450-4457.	1.1	2
72	Carbon, nitrogen, and water stable isotopes in plant tissue and soils across a moisture gradient in Puerto Rico. <i>Hydrological Processes</i> , 2017, 31, 1558-1559.	1.1	2

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73	The role of stable isotopes in understanding rainfall interception processes: a review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, 1-17.	2.8	91
74	Reviews and syntheses: on the roles trees play in building and plumbing the critical zone. <i>Biogeosciences</i> , 2017, 14, 5115-5142.	1.3	130
75	Tritium analysis shows apple trees may be transpiring water several decades old. <i>Hydrological Processes</i> , 2017, 31, 1196-1201.	1.1	72
76	A sprinkling experiment to quantify celerityâ€“velocity differences at the hillslope scale. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 5891-5910.	1.9	10
77	Interactions between payments for hydrologic services, landowner decisions, and ecohydrological consequences: synergies and disconnection in the cloud forest zone of central Veracruz, Mexico. <i>Ecology and Society</i> , 2017, 22, .	1.0	43
78	Terrestrial diatoms as tracers in catchment hydrology: a review. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1241.	2.8	25
79	Stimulating a Canadian narrative for climate. <i>Facets</i> , 2017, 2, 131-149.	1.1	3
80	Multiple runoff processes and multiple thresholds control agricultural runoff generation. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 4525-4545.	1.9	55
81	Factors influencing stream baseflow transit times in tropical montane watersheds. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 1621-1635.	1.9	41
82	Insights into plant water uptake from xylemâ€“water isotope measurements in two tropical catchments with contrasting moisture conditions. <i>Hydrological Processes</i> , 2016, 30, 3210-3227.	1.1	110
83	Effect of bedrock permeability on stream base flow mean transit time scaling relations: 1. A multiscale catchment intercomparison. <i>Water Resources Research</i> , 2016, 52, 1358-1374.	1.7	86
84	The exponential decline in saturated hydraulic conductivity with depth: a novel method for exploring its effect on water flow paths and transit time distribution. <i>Hydrological Processes</i> , 2016, 30, 2438-2450.	1.1	54
85	Intercomparison of soil pore water extraction methods for stable isotope analysis. <i>Hydrological Processes</i> , 2016, 30, 3434-3449.	1.1	129
86	Critical issues with cryogenic extraction of soil water for stable isotope analysis. <i>Ecohydrology</i> , 2016, 9, 1-5.	1.1	127
87	Orchestrating a powerful group. <i>Science</i> , 2016, 352, 378-378.	6.0	0
88	Evaristo et al. reply. <i>Nature</i> , 2016, 536, E3-E3.	13.7	2
89	Framework for eventâ€“based semidistributed modeling that unifies the SCSâ€“CN method, VIC, PDM, and TOPMODEL. <i>Water Resources Research</i> , 2016, 52, 7036-7052.	1.7	15
90	The 1-hour workday. <i>Science</i> , 2016, 353, 718-718.	6.0	3

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91	Interactions among hydraulic conductivity distributions, subsurface topography, and transport thresholds revealed by a multitracer hillslope irrigation experiment. <i>Water Resources Research</i> , 2016, 52, 6186-6206.	1.7	30
92	Beyond the SCS-CN method: A theoretical framework for spatially lumped rainfall-runoff response. <i>Water Resources Research</i> , 2016, 52, 4608-4627.	1.7	67
93	Dual nitrate isotopes clarify the role of biological processing and hydrologic flow paths on nitrogen cycling in subtropical low-gradient watersheds. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 422-437.	1.3	25
94	Hillslope permeability architecture controls on subsurface transit time distribution and flow paths. <i>Journal of Hydrology</i> , 2016, 543, 17-30.	2.3	47
95	Diatoms as a tracer of hydrological connectivity: are they supply limited?. <i>Ecohydrology</i> , 2016, 9, 631-645.	1.1	15
96	Effect of bedrock permeability on stream base flow mean transit time scaling relationships: 2. Process study of storage and release. <i>Water Resources Research</i> , 2016, 52, 1375-1397.	1.7	45
97	Substantial proportion of global streamflow less than three months old. <i>Nature Geoscience</i> , 2016, 9, 126-129.	5.4	252
98	Interflow dynamics on a low relief forested hillslope: Lots of fill, little spill. <i>Journal of Hydrology</i> , 2016, 534, 648-658.	2.3	43
99	Are all runoff processes the same? Numerical experiments comparing a <math>D</math>-arcy<math>R</math>-richards solver to an overland flow-based approach for subsurface storm runoff simulation. <i>Water Resources Research</i> , 2015, 51, 10008-10028.	1.7	38
100	Interception effects on stable isotope driven streamwater transit time estimates. <i>Geophysical Research Letters</i> , 2015, 42, 5299-5308.	1.5	29
101	Examination of aerial diatom flushing across watersheds in Luxembourg, Oregon and Slovakia for tracing episodic hydrological connectivity. <i>Journal of Hydrology and Hydromechanics</i> , 2015, 63, 235-245.	0.7	6
102	Comparison of threshold hydrologic response across northern catchments. <i>Hydrological Processes</i> , 2015, 29, 3575-3591.	1.1	55
103	Tracer advances in catchment hydrology. <i>Hydrological Processes</i> , 2015, 29, 5135-5138.	1.1	28
104	Factors affecting the spatial pattern of bedrock groundwater recharge at the hillslope scale. <i>Hydrological Processes</i> , 2015, 29, 4594-4610.	1.1	40
105	Ecohydrological separation in wet, low energy northern environments? A preliminary assessment using different soil water extraction techniques. <i>Hydrological Processes</i> , 2015, 29, 5139-5152.	1.1	100
106	Temporal dynamics of catchment transit times from stable isotope data. <i>Water Resources Research</i> , 2015, 51, 4208-4223.	1.7	56
107	Hydropedology: Synergistic integration of soil science and hydrology in the Critical Zone. <i>Hydrological Processes</i> , 2015, 29, 4559-4561.	1.1	11
108	Water's Way at Sleepers River watershed - revisiting flow generation in a post-glacial landscape, Vermont USA. <i>Hydrological Processes</i> , 2015, 29, 3447-3459.	1.1	53

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109	Efectos hidrológicos de la conversión del bosque de niebla en el centro de Veracruz, México. Bosque, 2015, 36, 395-407.	0.1	13
110	Hydrological connectivity inferred from diatom transport through the riparian-stream system. Hydrology and Earth System Sciences, 2015, 19, 3133-3151.	1.9	35
111	Where does streamwater come from in low-relief forested watersheds? A dual-isotope approach. Hydrology and Earth System Sciences, 2015, 19, 125-135.	1.9	55
112	Groundwater surface mapping informs sources of catchment baseflow. Hydrology and Earth System Sciences, 2015, 19, 1599-1613.	1.9	21
113	Stochastic rainfall-runoff model with explicit soil moisture dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150389.	1.0	15
114	Creating a research brand. Science, 2015, 349, 758-758.	6.0	2
115	Whither field hydrology? The need for discovery science and outrageous hydrological hypotheses. Water Resources Research, 2015, 51, 5919-5928.	1.7	127
116	Global separation of plant transpiration from groundwater and streamflow. Nature, 2015, 525, 91-94.	13.7	377
117	Seeing the climate through the trees: observing climate and forestry impacts on streamflow using a 60-year record. Hydrological Processes, 2015, 29, 473-480.	1.1	24
118	Gauging the Ungauged Basin: Relative Value of Soft and Hard Data. Journal of Hydrologic Engineering - ASCE, 2015, 20, .	0.8	60
119	Spatial patterns of throughfall isotopic composition at the event and seasonal timescales. Journal of Hydrology, 2015, 522, 58-66.	2.3	31
120	A stochastic approach to modelling and understanding hillslope runoff connectivity dynamics. Ecological Modelling, 2015, 298, 64-74.	1.2	23
121	The relative role of soil type and tree cover on water storage and transmission in northern headwater catchments. Hydrological Processes, 2015, 29, 1844-1860.	1.1	87
122	The pronounced seasonality of global groundwater recharge. Water Resources Research, 2014, 50, 8845-8867.	1.7	246
123	Ecohydrological flow networks in the subsurface. Ecohydrology, 2014, 7, 1073-1078.	1.1	19
124	A comparison of wetness indices for the prediction of observed connected saturated areas under contrasting conditions. Earth Surface Processes and Landforms, 2014, 39, 399-413.	1.2	62
125	The two water worlds hypothesis: ecohydrological separation of water between streams and trees?. Wiley Interdisciplinary Reviews: Water, 2014, 1, 323-329.	2.8	196
126	The role of pre-event canopy storage in throughfall and stemflow by using isotopic tracers. Ecohydrology, 2014, 7, 858-868.	1.1	67



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127	Analysis of hydrological seasonality across northern catchments using monthly precipitation-runoff polygon metrics. <i>Hydrological Sciences Journal</i> , 2014, 59, 56-72.	1.2	4
128	Lateral subsurface stormflow and solute transport in a forested hillslope: A combined measurement and modeling approach. <i>Water Resources Research</i> , 2014, 50, 8159-8178.	1.7	53
129	Debates-The future of hydrological sciences: A (common) path forward? A call to action aimed at understanding velocities, celerities and residence time distributions of the headwater hydrograph. <i>Water Resources Research</i> , 2014, 50, 5342-5350.	1.7	325
130	Rainfall seasonality and an ecohydrological feedback offset the potential impact of climate warming on evapotranspiration and groundwater recharge. <i>Water Resources Research</i> , 2014, 50, 1308-1321.	1.7	25
131	Simulated effect of soil depth and bedrock topography on near-surface hydrologic response and slope stability. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 146-159.	1.2	66
132	Toward a formal definition of water scarcity in natural-human systems. <i>Water Resources Research</i> , 2013, 49, 4506-4517.	1.7	65
133	Hydrograph separation using stable isotopes: Review and evaluation. <i>Journal of Hydrology</i> , 2013, 505, 47-64.	2.3	473
134	A new multisource and high-frequency approach to measuring $\delta^2\text{H}$ and $\delta^{18}\text{O}$ in hydrological field studies. <i>Water Resources Research</i> , 2013, 49, 7797-7803.	1.7	32
135	Use of color maps and wavelet coherence to discern seasonal and interannual climate influences on streamflow variability in northern catchments. <i>Water Resources Research</i> , 2013, 49, 6194-6207.	1.7	59
136	A decade of Predictions in Ungauged Basins (PUB)-a review. <i>Hydrological Sciences Journal</i> , 2013, 58, 1198-1255.	1.2	821
137	Catchments on the cusp? Structural and functional change in northern ecohydrology. <i>Hydrological Processes</i> , 2013, 27, 766-774.	1.1	55
138	Are all runoff processes the same?. <i>Hydrological Processes</i> , 2013, 27, 4103-4111.	1.1	84
139	Outcomes of synthesis. , 2013, , 361-383.		4
140	Change in winter climate will affect dissolved organic carbon and water fluxes in mid-to-high latitude catchments. <i>Hydrological Processes</i> , 2013, 27, 700-709.	1.1	35
141	Macropore flow of old water revisited: experimental insights from a tile-drained hillslope. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 103-118.	1.9	112
142	Land use change effects on runoff generation in a humid tropical montane cloud forest region. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3543-3560.	1.9	106
143	The hydrology of the humid tropics. <i>Nature Climate Change</i> , 2012, 2, 655-662.	8.1	284
144	A comparison of similarity indices for catchment classification using a cross-regional dataset. <i>Advances in Water Resources</i> , 2012, 40, 11-22.	1.7	85

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145	Runoff generation in a steep, tropical montane cloud forest catchment on permeable volcanic substrate. <i>Water Resources Research</i> , 2012, 48, .	1.7	127
146	Cross-regional prediction of long-term trajectory of stream water DOC response to climate change. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	127
147	Ecohydrologic connections and complexities in drylands: new perspectives for understanding transformative landscape change. <i>Ecohydrology</i> , 2012, 5, 143-144.	1.1	11
148	Organization of complexity in water limited ecohydrology. <i>Ecohydrology</i> , 2012, 5, 184-199.	1.1	73
149	Ecohydrological controls on soil erosion and landscape evolution. <i>Ecohydrology</i> , 2012, 5, 478-490.	1.1	13
150	Stable isotopes reveal linkages among ecohydrological processes in a seasonally dry tropical montane cloud forest. <i>Ecohydrology</i> , 2012, 5, 779-790.	1.1	193
151	The "hidden streamflow" challenge in catchment hydrology: a call to action for stream water transit time analysis. <i>Hydrological Processes</i> , 2012, 26, 2061-2066.	1.1	59
152	Hydroclimatic and hydrochemical controls on Plecoptera diversity and distribution in northern freshwater ecosystems. <i>Hydrobiologia</i> , 2012, 693, 39-53.	1.0	8
153	The role of bedrock groundwater in rainfall-runoff response at hillslope and catchment scales. <i>Journal of Hydrology</i> , 2012, 450-451, 117-133.	2.3	105
154	An inexpensive and portable drill rig for bedrock groundwater studies in headwater catchments. <i>Hydrological Processes</i> , 2012, 26, 622-632.	1.1	22
155	Topographic, pedologic and climatic interactions influencing streamflow generation at multiple catchment scales. <i>Hydrological Processes</i> , 2012, 26, 3858-3874.	1.1	21
156	Lateral Subsurface Flow in a Soil Cover over Waste Rock in a Humid Temperate Environment. <i>Vadose Zone Journal</i> , 2011, 10, 332-344.	1.3	16
157	Examining the role of throughfall patterns on subsurface stormflow generation. <i>Journal of Hydrology</i> , 2011, 409, 460-471.	2.3	30
158	On the value of long-term, low-frequency water quality sampling: avoiding throwing the baby out with the bathwater. <i>Hydrological Processes</i> , 2011, 25, 828-830.	1.1	44
159	On the relative role of upslope and downslope topography for describing water flow path and storage dynamics: a theoretical analysis. <i>Hydrological Processes</i> , 2011, 25, 3909-3923.	1.1	22
160	How much water can a watershed store?. <i>Hydrological Processes</i> , 2011, 25, 3899-3908.	1.1	134
161	Hillslope threshold response to rainfall: (1) A field based forensic approach. <i>Journal of Hydrology</i> , 2010, 393, 65-76.	2.3	161
162	Hillslope threshold response to rainfall: (2) Development and use of a macroscale model. <i>Journal of Hydrology</i> , 2010, 393, 77-93.	2.3	58

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