James McPhee

List of Publications by Year in descending order

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60 papers	2,634 citations	218677 26 h-index	197818 49 g-index
67 all docs	67 docs citations	67 times ranked	2767 citing authors

#	Article	IF	Citations
1	Sensitivity of forestâ€“snow interactions to climate forcing: Local variability in a Pyrenean valley. Journal of Hydrology, 2022, 605, 127311.	5.4	7
2	Snow Processes and Climate Sensitivity in an Arid Mountain Region, Northern Chile. Atmosphere, 2021, 12, 520.	2.3	7
3	The role of local geochemical and mineralogical backgrounds as essential information to build efficient sediment quality guidelines at high-mountainous hydrothermally-altered basins (Mapocho) Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	6
4	An integrated modeling approach for mineral and metal transport in acidic rivers at high mountainous porphyry Cu systems. Journal of Hydrology, 2021, 602, 126718.	5.4	4
5	Glacier albedo reduction and drought effects in the extratropical Andes, 1986â€“2020. Journal of Glaciology, 2021, 67, 158-169.	2.2	25
6	Snow Cover and Glaciers. World Water Resources, 2021, , 129-151.	0.4	2
7	Snow Depth Patterns in a High Mountain Andean Catchment from Satellite Optical Tristereoscopic Remote Sensing. Water Resources Research, 2020, 56, e2019WR024880.	4.2	32
8	A near 90-year record of the evolution of El Morado Glacier and its proglacial lake, Central Chilean Andes. Journal of Glaciology, 2020, 66, 846-860.	2.2	18
9	Spatial Distribution and Scaling Properties of Lidarâ€Derived Snow Depth in the Extratropical Andes. Water Resources Research, 2020, 56, e2020WR028480.	4.2	7
10	Atmospheric Rivers Contribution to the Snow Accumulation Over the Southern Andes (26.5Â° Sâ€“37.5Â°) Tj ETQq0 0 0 rgBT /Overlock	1.8	11
11	Monitoring Spatial and Temporal Differences in Andean Snow Depth Derived From Satellite Tri-Stereo Photogrammetry. Frontiers in Earth Science, 2020, 8, .	1.8	9
12	Interannual and Seasonal Variability of Snow Depth Scaling Behavior in a Subalpine Catchment. Water Resources Research, 2020, 56, e2020WR027343.	4.2	15
13	The Utility of Optical Satellite Winter Snow Depths for Initializing a Glacioâ€Hydrological Model of a Highâ€Elevation, Andean Catchment. Water Resources Research, 2020, 56, e2020WR027188.	4.2	12
14	Hydrogeochemical and environmental water quality standards in the overlap between high mountainous natural protected areas and copper mining activities (Mapocho river upper basin,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 21	3.4	1
15	Glacier runoff variations since 1955 in the Maipo River basin, in the semiarid Andes of central Chile. Cryosphere, 2020, 14, 2005-2027.	3.9	44
16	Snowfall interception in a deciduous <scp>Nothofagus</scp> forest and implications for spatial snowpack distribution. Hydrological Processes, 2019, 33, 1818-1834.	2.6	15
17	Interannual variability in glacier contribution to runoff from a highâ€elevation Andean catchment: understanding the role of debris cover in glacier hydrology. Hydrological Processes, 2019, 33, 214-229.	2.6	34
18	The CAMELS-CL dataset: catchment attributes and meteorology for large sample studies â€“ Chile dataset. Hydrology and Earth System Sciences, 2018, 22, 5817-5846.	4.9	188

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19	Using a Statistical Preanalysis Approach as an Ensemble Technique for the Unbiased Mapping of GCM Changes to Local Stations. Journal of Hydrometeorology, 2018, 19, 1447-1465.	1.9	13
20	Spatiotemporal Variations in Hydroclimate across the Mediterranean Andes (30Â°â€“37Â°S) since the Early Twentieth Century. Journal of Hydrometeorology, 2017, 18, 1929-1942.	1.9	34
21	Patterns of glacier ablation across <scp>N</scp>orthâ€<scp>C</scp>entral <scp>C</scp>hile: Identifying the limits of empirical melt models under sublimationâ€favorable conditions. Water Resources Research, 2017, 53, 5601-5625.	4.2	32
22	The Andes Cordillera. Part IV: spatioâ€temporal freshwater runâ€off distribution to adjacent seas (1979â€“2014). International Journal of Climatology, 2017, 37, 3175-3196.	3.5	12
23	The Andes Cordillera. Part I: snow distribution, properties, and trends (1979â€“2014). International Journal of Climatology, 2017, 37, 1680-1698.	3.5	42
24	The Andes Cordillera. Part <scp>II</scp>: Rio Olivares Basin snow conditions (1979â€“2014), central Chile. International Journal of Climatology, 2017, 37, 1699-1715.	3.5	9
25	The 2010â€“2015 megadrought in central Chile: impacts on regional hydroclimate and vegetation. Hydrology and Earth System Sciences, 2017, 21, 6307-6327.	4.9	368
26	Spatio-temporal variability of snow water equivalent in the extra-tropical Andes Cordillera from distributed energy balance modeling and remotely sensed snow cover. Hydrology and Earth System Sciences, 2016, 20, 411-430.	4.9	47
27	Reconstructing the annual mass balance of the Echaurren Norte glacier (Central Andes, 33.5Â° S) using local and regional hydroclimatic data. Cryosphere, 2016, 10, 927-940.	3.9	49
28	Estimating runoff from a glacierized catchment using natural tracers in the semiâ€arid Andes cordillera. Hydrological Processes, 2016, 30, 3609-3626.	2.6	30
29	Modelling the hydrological response of debrisâ€free and debrisâ€covered glaciers to present climatic conditions in the semiarid Andes of central Chile. Hydrological Processes, 2016, 30, 4036-4058.	2.6	40
30	Physically Based Mountain Hydrological Modeling Using Reanalysis Data in Patagonia. Journal of Hydrometeorology, 2015, 16, 172-193.	1.9	55
31	A robust multimodel framework for ensemble seasonal hydroclimatic forecasts. Water Resources Research, 2014, 50, 6030-6052.	4.2	26
32	An evaluation of approaches for modelling hydrological processes in highâ€elevation, glacierized Andean watersheds. Hydrological Processes, 2014, 28, 5674-5695.	2.6	62
33	Altitudinal gradients, midwinter melt, and wind effects on snow accumulation in semiarid midlatitude Andes under La NiÃ±a conditions. Water Resources Research, 2014, 50, 3589-3594.	4.2	14
34	Catastrophic, rainfall-induced debris flows in Andean villages of TarapacÃ¡, Atacama Desert, northern Chile. Landslides, 2014, 11, 481-491.	5.4	29
35	Changes of glaciers in the Andes of Chile and priorities for future work. Science of the Total Environment, 2014, 493, 1197-1210.	8.0	94
36	Downscaling Climate Changes for Santiago: What Effects can be Expected?. , 2014, , 19-41.		10

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37	Stable water isotope variation in a Central Andean watershed dominated by glacier and snowmelt. Hydrology and Earth System Sciences, 2013, 17, 1035-1050.	4.9	92
38	Agriculture Vulnerability to Climate Change in a Snowmelt-Driven Basin in Semiarid Chile. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 431-441.	2.6	79
39	Uncertainty in flood forecasting: A distributed modeling approach in a sparse data catchment. Water Resources Research, 2012, 48, .	4.2	29
40	Risks and Opportunities for Sustainable Management of Water Resources and Services in Santiago de Chile. , 2012, , 251-278.		3
41	Climatic sensitivity of streamflow timing in the extratropical western Andes Cordillera. Journal of Hydrology, 2011, 405, 93-109.	5.4	64
42	Climate change impacts on the hydrology of a snowmelt driven basin in semiarid Chile. Climatic Change, 2011, 105, 469-488.	3.6	177
43	Applying Principles of Denver Strategic Transportation Plan: East Side Corridor. , 2010, , .		0
44	Best Practices in Addressing NPDES and Other Water Quality Issues in Highway System Management. , 2010, , .		2
45	Vulnerability and Adaptation to Climate Change in an Irrigated Agricultural Basin in Semi Arid Chile. , 2010, , .		1
46	An Approach to Estimating Hydropower Impacts of Climate Change from a Regional Perspective. , 2010, , .		7
47	Retrofitting with Bioretention and a Bioswale to Treat Bridge Deck Stormwater Runoff. , 2010, , .		1
48	Climate Change Economic Impacts on Supply of Water for the M & I Sector in the Metropolitan Region of Chile. , 2010, , .		6
49	Patterns of spatial and temporal variability in streamflow records in south central Chile in the period 1952â€“2003. Water Resources Research, 2010, 46, .	4.2	62
50	The influence of urban expansion on the flood hazard in Santiago de Chile. , 2009, , .		3
51	Revealing the impact of forest exotic plantations on water yield in large scale watersheds in South-Central Chile. Journal of Hydrology, 2009, 374, 162-170.	5.4	158
52	Assessment of ecosystem services as an opportunity for the conservation and management of native forests in Chile. Forest Ecology and Management, 2009, 258, 415-424.	3.2	147
53	Groundwater Management Using Model Reduction via Empirical Orthogonal Functions. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 161-170.	2.6	48
54	A diversified multiobjective GA for optimizing reservoir rule curves. Advances in Water Resources, 2007, 30, 1082-1093.	3.8	163

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55	Experimental design for groundwater modeling and management. Water Resources Research, 2006, 42, .	4.2	24
56	Optimal Groundwater Management Using Empirical Orthogonal Functions. , 2006, , 1.		0
57	Validation and Error Characterization of the GPCP-1DD Precipitation Product over the Contiguous United States. Journal of Hydrometeorology, 2005, 6, 441-459.	1.9	34
58	Optimal Experimental Design for Parameter Estimation and Contaminant Plume Characterization in Groundwater Modelling. , 2005, , 219-245.		2
59	Multiobjective Optimization for Sustainable Groundwater Management in Semiarid Regions. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 490-497.	2.6	75
60	Decision Support System for Sustainable Groundwater Management. , 2003, , 142.		0