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	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
2	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
3	Climate change impacts on the hydrology of a snowmelt driven basin in semiarid Chile. Climatic Change, 2011, 105, 469-488.	3.6	177
4	A diversified multiobjective GA for optimizing reservoir rule curves. Advances in Water Resources, 2007, 30, 1082-1093.	3.8	163
5	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
6	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
7	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
8	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
9	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
10	Multiobjective Optimization for Sustainable Groundwater Management in Semiarid Regions. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 490-497.	2.6	75
11	Climatic sensitivity of streamflow timing in the extratropical western Andes Cordillera. Journal of Hydrology, 2011, 405, 93-109.	5.4	64
12	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
13	An evaluation of approaches for modelling hydrological processes in highâ€elevation, glacierized Andean watersheds. Hydrological Processes, 2014, 28, 5674-5695.	2.6	62
14	Physically Based Mountain Hydrological Modeling Using Reanalysis Data in Patagonia. Journal of Hydrometeorology, 2015, 16, 172-193.	1.9	55
15	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
16	Groundwater Management Using Model Reduction via Empirical Orthogonal Functions. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 161-170.	2.6	48
17	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
18	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

#	Article	IF	Citations
19	The Andes Cordillera. Part I: snow distribution, properties, and trends (1979â€“2014). International Journal of Climatology, 2017, 37, 1680-1698.	3.5	42
20	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
21	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
22	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
23	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
24	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
25	Snow Depth Patterns in a High Mountain Andean Catchment from Satellite Optical Tristereoscopic Remote Sensing. Water Resources Research, 2020, 56, e2019WR024880.	4.2	32
26	Estimating runoff from a glacierized catchment using natural tracers in the semiâ€arid Andes cordillera. Hydrological Processes, 2016, 30, 3609-3626.	2.6	30
27	Uncertainty in flood forecasting: A distributed modeling approach in a sparse data catchment. Water Resources Research, 2012, 48, .	4.2	29
28	Catastrophic, rainfall-induced debris flows in Andean villages of TarapacÃ¡, Atacama Desert, northern Chile. Landslides, 2014, 11, 481-491.	5.4	29
29	A robust multimodel framework for ensemble seasonal hydroclimatic forecasts. Water Resources Research, 2014, 50, 6030-6052.	4.2	26
30	Glacier albedo reduction and drought effects in the extratropical Andes, 1986â€“2020. Journal of Glaciology, 2021, 67, 158-169.	2.2	25
31	Experimental design for groundwater modeling and management. Water Resources Research, 2006, 42, .	4.2	24
32	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
33	Snowfall interception in a deciduous <scp>Nothofagus</scp> forest and implications for spatial snowpack distribution. Hydrological Processes, 2019, 33, 1818-1834.	2.6	15
34	Interannual and Seasonal Variability of Snow Depth Scaling Behavior in a Subalpine Catchment. Water Resources Research, 2020, 56, e2020WR027343.	4.2	15
35	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
36	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

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37	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
38	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
39	Atmospheric Rivers Contribution to the Snow Accumulation Over the Southern Andes (26.5Â° Sâ€“37.5Â°) Tj ETQq1 1 0.784314 rgBT /O	1.8	11
40	Downscaling Climate Changes for Santiago: What Effects can be Expected?. , 2014, , 19-41.		10
41	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
42	Monitoring Spatial and Temporal Differences in Andean Snow Depth Derived From Satellite Tri-Stereo Photogrammetry. Frontiers in Earth Science, 2020, 8, .	1.8	9
43	Hydrogeochemical and environmental water quality standards in the overlap between high mountainous natural protected areas and copper mining activities (Mapocho river upper basin,) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	9
44	An Approach to Estimating Hydropower Impacts of Climate Change from a Regional Perspective. , 2010, , .		7
45	Spatial Distribution and Scaling Properties of Lidarâ€Derived Snow Depth in the Extratropical Andes. Water Resources Research, 2020, 56, e2020WR028480.	4.2	7
46	Snow Processes and Climate Sensitivity in an Arid Mountain Region, Northern Chile. Atmosphere, 2021, 12, 520.	2.3	7
47	Sensitivity of forestâ€“snow interactions to climate forcing: Local variability in a Pyrenean valley. Journal of Hydrology, 2022, 605, 127311.	5.4	7
48	Climate Change Economic Impacts on Supply of Water for the M & I Sector in the Metropolitan Region of Chile. , 2010, , .		6
49	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	3.4	6
50	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
51	The influence of urban expansion on the flood hazard in Santiago de Chile. , 2009, , .		3
52	Risks and Opportunities for Sustainable Management of Water Resources and Services in Santiago de Chile. , 2012, , 251-278.		3
53	Optimal Experimental Design for Parameter Estimation and Contaminant Plume Characterization in Groundwater Modelling. , 2005, , 219-245.		2
54	Best Practices in Addressing NPDES and Other Water Quality Issues in Highway System Management. , 2010, , .		2

#	Article	IF	Citations
55	Snow Cover and Glaciers. World Water Resources, 2021, , 129-151.	0.4	2
56	Vulnerability and Adaptation to Climate Change in an Irrigated Agricultural Basin in Semi Arid Chile. , 2010, , .		1
57	Retrofitting with Bioretention and a Bioswale to Treat Bridge Deck Stormwater Runoff. , 2010, , .		1
58	Decision Support System for Sustainable Groundwater Management. , 2003, , 142.		0
59	Optimal Groundwater Management Using Empirical Orthogonal Functions. , 2006, , 1.		0
60	Applying Principles of Denver Strategic Transportation Plan: East Side Corridor. , 2010, , .		0