

Adrian A Harpold

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

2,220
citations

28
h-index

46
g-index

76
ext. papers

2,834
ext. citations

4.6
avg. IF

5.15
L-index

#	Paper	IF	Citations
59	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158	3.5	259
58	Snowmelt rate dictates streamflow. <i>Geophysical Research Letters</i> , 2016 , 43, 8006-8016	4.9	149
57	Rain or snow: hydrologic processes, observations, prediction, and research needs. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 1-22	5.5	145
56	Changes in snowpack accumulation and ablation in the intermountain west. <i>Water Resources Research</i> , 2012 , 48,	5.4	111
55	How Water, Carbon, and Energy Drive Critical Zone Evolution: The Jemez-Santa Catalina Critical Zone Observatory. <i>Vadose Zone Journal</i> , 2011 , 10, 884-899	2.7	96
54	Changes in snow accumulation and ablation following the Las Conchas Forest Fire, New Mexico, USA. <i>Ecohydrology</i> , 2014 , 7, 440-452	2.5	86
53	Multiscale observations of snow accumulation and peak snowpack following widespread, insect-induced lodgepole pine mortality. <i>Ecohydrology</i> , 2014 , 7, 150-162	2.5	78
52	Quantifying the effects of vegetation structure on snow accumulation and ablation in mixed-conifer forests. <i>Ecohydrology</i> , 2015 , 8, 1073-1094	2.5	78
51	Recent tree die-off has little effect on streamflow in contrast to expected increases from historical studies. <i>Water Resources Research</i> , 2015 , 51, 9775-9789	5.4	74
50	Soil moisture response to snowmelt timing in mixed-conifer subalpine forests. <i>Hydrological Processes</i> , 2015 , 29, 2782-2798	3.3	66
49	Increased evaporation following widespread tree mortality limits streamflow response. <i>Water Resources Research</i> , 2014 , 50, 5395-5409	5.4	65
48	LiDAR-derived snowpack data sets from mixed conifer forests across the Western United States. <i>Water Resources Research</i> , 2014 , 50, 2749-2755	5.4	63
47	Humidity determines snowpack ablation under a warming climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1215-1220	11.5	60
46	Sensitivity of soil water availability to changing snowmelt timing in the western U.S.. <i>Geophysical Research Letters</i> , 2015 , 42, 8011-8020	4.9	57
45	Rare earth elements as reactive tracers of biogeochemical weathering in forested rhyolitic terrain. <i>Chemical Geology</i> , 2015 , 391, 19-32	4.2	50
44	Variation in root density along stream banks. <i>Journal of Environmental Quality</i> , 2004 , 33, 2030-9	3.4	50
43	Stream water carbon controls in seasonally snow-covered mountain catchments: impact of inter-annual variability of water fluxes, catchment aspect and seasonal processes. <i>Biogeochemistry</i> , 2014 , 118, 273-290	3.8	46

42	Topographically driven differences in energy and water constrain climatic control on forest carbon sequestration. <i>Ecosphere</i> , 2017 , 8, e01797	3.1	43
41	Aerosol and precipitation chemistry in the southwestern United States: spatiotemporal trends and interrelationships. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7361-7379	6.8	43
40	Regional sensitivities of seasonal snowpack to elevation, aspect, and vegetation cover in western North America. <i>Water Resources Research</i> , 2017 , 53, 6908-6926	5.4	41
39	The relative contributions of alpine and subalpine ecosystems to the water balance of a mountainous, headwater catchment. <i>Hydrological Processes</i> , 2015 , 29, 4794-4808	3.3	39
38	Temperature controls production but hydrology regulates export of dissolved organic carbon at the catchment scale. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 945-966	5.5	36
37	Geochemical evolution of the Critical Zone across variable time scales informs concentration-discharge relationships: Jemez River Basin Critical Zone Observatory. <i>Water Resources Research</i> , 2017 , 53, 4169-4196	5.4	35
36	Investigating a high resolution, stream chloride time series from the Biscuit Brook catchment, Catskills, NY. <i>Journal of Hydrology</i> , 2008 , 348, 245-256	6	35
35	Relative Humidity Has Uneven Effects on Shifts From Snow to Rain Over the Western U.S.. <i>Geophysical Research Letters</i> , 2017 , 44, 9742-9750	4.9	33
34	Laser vision: lidar as a transformative tool to advance critical zone science. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 2881-2897	5.5	33
33	Diverging sensitivity of soil water stress to changing snowmelt timing in the Western U.S.. <i>Advances in Water Resources</i> , 2016 , 92, 116-129	4.7	33
32	From Hydrometeorology to River Water Quality: Can a Deep Learning Model Predict Dissolved Oxygen at the Continental Scale?. <i>Environmental Science & Technology</i> , 2021 , 55, 2357-2368	10.3	33
31	Testing and Improving Temperature Thresholds for Snow and Rain Prediction in the Western United States. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 1142-1154	2.1	22
30	The Hydrological Effects of Lateral Preferential Flow Paths in a Glaciated Watershed in the Northeastern USA. <i>Vadose Zone Journal</i> , 2010 , 9, 397-414	2.7	20
29	Potential for Changing Extreme Snowmelt and Rainfall Events in the Mountains of the Western United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 13,219	4.4	17
28	Stream Discharge Measurement Using a Large-Scale Particle Image Velocimetry (LSPIV) Prototype. <i>Transactions of the ASABE</i> , 2006 , 49, 1791-1805	0.9	17
27	Does Including Soil Moisture Observations Improve Operational Streamflow Forecasts in Snow-Dominated Watersheds?. <i>Journal of the American Water Resources Association</i> , 2017 , 53, 179-196	2.1	15
26	Watershed-scale mapping of fractional snow cover under conifer forest canopy using lidar. <i>Remote Sensing of Environment</i> , 2019 , 222, 34-49	13.2	15
25	Impacts of Sampling Dissolved Organic Matter with Passive Capillary Wicks Versus Aqueous Soil Extraction. <i>Soil Science Society of America Journal</i> , 2012 , 76, 2019-2030	2.5	14

24	Partitioning snowmelt and rainfall in the critical zone: effects of climate type and soil properties. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 3553-3570	5.5	13
23	A net ecosystem carbon budget for snow dominated forested headwater catchments: linking water and carbon fluxes to critical zone carbon storage. <i>Biogeochemistry</i> , 2018 , 138, 225-243	3.8	12
22	Now you see it, now you don't: a case study of ephemeral snowpacks and soil moisture response in the Great Basin, USA. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 4891-4906	5.5	11
21	Direct Channel Precipitation and Storm Characteristics Influence Short-Term Fallout Radionuclide Assessment of Sediment Source. <i>Water Resources Research</i> , 2018 , 54, 4579-4594	5.4	10
20	Performance Assessment of Optical Satellite-Based Operational Snow Cover Monitoring Algorithms in Forested Landscapes. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021 , 14, 7159-7178	4.7	10
19	Increasing the efficacy of forest thinning for snow using high-resolution modeling: A proof of concept in the Lake Tahoe Basin, California, USA. <i>Ecohydrology</i> , 2020 , 13, e2203	2.5	9
18	Patterns and Drivers of Atmospheric River Precipitation and Hydrologic Impacts across the Western United States. <i>Journal of Hydrometeorology</i> , 2020 , 21, 143-159	3.7	9
17	Riparian zones attenuate nitrogen loss following bark beetle-induced lodgepole pine mortality. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 933-948	3.7	8
16	Relating hydrogeomorphic properties to stream buffering chemistry in the Neversink River watershed, New York State, USA. <i>Hydrological Processes</i> , 2010 , 24, 3759-3771	3.3	8
15	Snowmelt causes different limitations on transpiration in a Sierra Nevada conifer forest. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108089	5.8	8
14	Estimating the Effects of Forest Structure Changes From Wildfire on Snow Water Resources Under Varying Meteorological Conditions. <i>Water Resources Research</i> , 2020 , 56, e2020WR027071	5.4	7
13	Using Process Based Snow Modeling and Lidar to Predict the Effects of Forest Thinning on the Northern Sierra Nevada Snowpack. <i>Frontiers in Forests and Global Change</i> , 2020 , 3,	3.7	7
12	Laser vision: lidar as a transformative tool to advance critical zone science		6
11	The sensitivity of snow ephemerality to warming climate across an arid to montane vegetation gradient. <i>Ecohydrology</i> , 2019 , 12, e2060	2.5	6
10	Streams as mirrors: reading subsurface water chemistry from stream chemistry. <i>Water Resources Research</i> , e2021WR029931	5.4	5
9	Drivers and projections of ice phenology in mountain lakes in the western United States. <i>Limnology and Oceanography</i> , 2021 , 66, 995-1008	4.8	5
8	Growing new generations of critical zone scientists. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 2498-2502	3.7	4
7	Bias Correction of Airborne Thermal Infrared Observations Over Forests Using Melting Snow. <i>Water Resources Research</i> , 2019 , 55, 11331-11343	5.4	4

6	Using Lidar to Advance Critical Zone Science. <i>Eos</i> , 2014 , 95, 364-364	1.5	3
5	Drivers of Dissolved Organic Carbon Mobilization From Forested Headwater Catchments: A Multi Scaled Approach. <i>Frontiers in Water</i> , 2021 , 3,	2.6	3
4	Variation in Root Density along Stream Banks 2004 , 400		2
3	Hydrogeomorphology explains acidification-driven variation in aquatic biological communities in the Neversink Basin, USA 2013 , 23, 791-800		1
2	Unraveling the Controls on Snow Disappearance in Montane Conifer Forests Using Multi-Site Lidar. <i>Water Resources Research</i> , 2021 , 57,	5.4	1
1	Accounting for Fine-Scale Forest Structure is Necessary to Model Snowpack Mass and Energy Budgets in Montane Forests. <i>Water Resources Research</i> , 2021 , 57, e2021WR029716	5.4	0