

Adrian A Harpold

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3624708/adrian-a-harpold-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | 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 |
| 58 | Drivers of Dissolved Organic Carbon Mobilization From Forested Headwater Catchments: A Multi Scaled Approach. <i>Frontiers in Water</i> , 2021 , 3, | 2.6 | 3 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | Unraveling the Controls on Snow Disappearance in Montane Conifer Forests Using Multi-Site Lidar. <i>Water Resources Research</i> , 2021 , 57, | 5.4 | 1 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | Snowmelt causes different limitations on transpiration in a Sierra Nevada conifer forest. <i>Agricultural and Forest Meteorology</i> , 2020 , 291, 108089 | 5.8 | 8 |
| 47 | 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 |
| 46 | Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158 | 3.5 | 259 |
| 45 | Bias Correction of Airborne Thermal Infrared Observations Over Forests Using Melting Snow. <i>Water Resources Research</i> , 2019 , 55, 11331-11343 | 5.4 | 4 |
| 44 | 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 |
| 43 | The sensitivity of snow ephemerality to warming climate across an arid to montane vegetation gradient. <i>Ecohydrology</i> , 2019 , 12, e2060 | 2.5 | 6 |

| | | | |
|----|--|------|-----|
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 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 | 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 |
| 35 | 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 |
| 34 | Rain or snow: hydrologic processes, observations, prediction, and research needs. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 1-22 | 5.5 | 145 |
| 33 | Growing new generations of critical zone scientists. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 2498-2502 | 3.7 | 4 |
| 32 | Topographically driven differences in energy and water constrain climatic control on forest carbon sequestration. <i>Ecosphere</i> , 2017 , 8, e01797 | 3.1 | 43 |
| 31 | 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 |
| 30 | Snowmelt rate dictates streamflow. <i>Geophysical Research Letters</i> , 2016 , 43, 8006-8016 | 4.9 | 149 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Rare earth elements as reactive tracers of biogeochemical weathering in forested rhyolitic terrain. <i>Chemical Geology</i> , 2015 , 391, 19-32 | 4.2 | 50 |
| 25 | 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 |

| | | | |
|----|---|-----|-----|
| 24 | 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 |
| 23 | Soil moisture response to snowmelt timing in mixed-conifer subalpine forests. <i>Hydrological Processes</i> , 2015 , 29, 2782-2798 | 3.3 | 66 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Increased evaporation following widespread tree mortality limits streamflow response. <i>Water Resources Research</i> , 2014 , 50, 5395-5409 | 5.4 | 65 |
| 17 | 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 |
| 16 | Using Lidar to Advance Critical Zone Science. <i>Eos</i> , 2014 , 95, 364-364 | 1.5 | 3 |
| 15 | 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 |
| 14 | 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 |
| 13 | Hydrogeomorphology explains acidification-driven variation in aquatic biological communities in the Neversink Basin, USA 2013 , 23, 791-800 | | 1 |
| 12 | 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 |
| 11 | Changes in snowpack accumulation and ablation in the intermountain west. <i>Water Resources Research</i> , 2012 , 48, | 5.4 | 111 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | 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 |

| | | | |
|---|--|-----|----|
| 6 | 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 |
| 5 | 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 |
| 4 | Variation in root density along stream banks. <i>Journal of Environmental Quality</i> , 2004 , 33, 2030-9 | 3.4 | 50 |
| 3 | Variation in Root Density along Stream Banks 2004 , 400 | | 2 |
| 2 | Laser vision: lidar as a transformative tool to advance critical zone science | | 6 |
| 1 | Streams as mirrors: reading subsurface water chemistry from stream chemistry. <i>Water Resources Research</i> , e2021WR029931 | 5.4 | 5 |