

Dennis Lettenmaier

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2832619/dennis-lettenmaier-publications-by-year.pdf>

Version: 2024-04-26

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.

421
papers

51,390
citations

116
h-index

219
g-index

433
ext. papers

56,864
ext. citations

5.2
avg, IF

7.76
L-index

#	Paper	IF	Citations
4 ²¹	Changes in Mechanisms and Characteristics of Western U.S. Floods Over the Last Sixty Years. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	6
4 ²⁰	Post-Drought Groundwater Storage Recovery in California's Central Valley. <i>Water Resources Research</i> , 2021 , 57, e2021WR030352	5.4	2
4 ¹⁹	Outdoor Residential Water Use Restrictions during Recent Drought Suppressed Disease Vector Abundance in Southern California. <i>Environmental Science & Technology</i> , 2021 , 55, 478-487	10.3	1
4 ¹⁸	Advances in Land Surface Models and Indicators for Drought Monitoring and Prediction. <i>Bulletin of the American Meteorological Society</i> , 2021 , 1-68	6.1	2
4 ¹⁷	Drought Variability over the Conterminous United States for the Past Century. <i>Journal of Hydrometeorology</i> , 2021 , 22, 1153-1168	3.7	5
4 ¹⁶	An extreme-preserving long-term gridded daily precipitation data set for the conterminous United States. <i>Journal of Hydrometeorology</i> , 2021 ,	3.7	2
4 ¹⁵	Modeling Snow Ablation over the Mountains of the Western United States: Patterns and Controlling Factors. <i>Journal of Hydrometeorology</i> , 2021 , 22, 297-311	3.7	4
4 ¹⁴	Stay-at-Home Orders during the COVID-19 Pandemic Reduced Urban Water Use. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 431-436	11	11
4 ¹³	Digital Elevation Model and Drainage Network Data Sets for Global Flood and Drought Modeling. <i>Geophysical Monograph Series</i> , 2021 , 213-235	1.1	
4 ¹²	Global Flood Models. <i>Geophysical Monograph Series</i> , 2021 , 181-200	1.1	1
4 ¹¹	Integrating Soil Moisture Active/Passive Observations with Rainfall Data Using an Analytic Model for Drought Monitoring at the Continental Scale. <i>Geophysical Monograph Series</i> , 2021 , 165-180	1.1	
4 ¹⁰	Drought Monitoring Using Reservoir Data Collected via Satellite Remote Sensing. <i>Geophysical Monograph Series</i> , 2021 , 47-59	1.1	
4 ⁰⁹	Remote Sensing of Evapotranspiration for Global Drought Monitoring. <i>Geophysical Monograph Series</i> , 2021 , 29-46	1.1	3
4 ⁰⁸	Calibration of Global Flood Models. <i>Geophysical Monograph Series</i> , 2021 , 201-211	1.1	0
4 ⁰⁷	Atmospheric Rivers and Snow Accumulation in the Upper Colorado River Basin. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094265	4.9	0
4 ⁰⁶	Progress, Challenges, and Opportunities in Remote Sensing of Drought. <i>Geophysical Monograph Series</i> , 2021 , 1-28	1.1	1
4 ⁰⁵	A near-global, high resolution land surface parameter dataset for the variable infiltration capacity model. <i>Scientific Data</i> , 2021 , 8, 216	8.2	1

404	Global Integrated Drought Monitoring with a Multivariate Framework. <i>Geophysical Monograph Series</i> , 2021 , 137-145	1.1	
403	A Probabilistic Framework for Agricultural Drought Forecasting Using the Ensemble Data Assimilation and Bayesian Multivariate Modeling. <i>Geophysical Monograph Series</i> , 2021 , 147-164	1.1	0
402	Global Flood Partnership. <i>Geophysical Monograph Series</i> , 2021 , 307-322	1.1	0
401	Western U.S. Superfloods in the Recent Instrumental Record. <i>Water Resources Research</i> , 2021 , 57, e2020WR029287	5.4	7
400	A Data Assimilation Framework for Generating Space-Time Continuous Daily SWOT River Discharge Data Products. <i>Water Resources Research</i> , 2020 , 56, e2019WR026999	5.4	7
399	Runoff and Evapotranspiration Elasticities in the Western United States: Are They Consistent With Dooge's Complementary Relationship?. <i>Water Resources Research</i> , 2020 , 56, e2019WR026719	5.4	3
398	Can Managed Aquifer Recharge Mitigate the Groundwater Overdraft in California's Central Valley?. <i>Water Resources Research</i> , 2020 , 56, e2020WR027244	5.4	14
397	Prediction of Flash Droughts over the United States. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1793-1810	3.7	6
396	Floods due to Atmospheric Rivers along the U.S. West Coast: The Role of Antecedent Soil Moisture in a Warming Climate. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1827-1845	3.7	10
395	Satellite-based remote sensing data set of global surface water storage change from 1992 to 2018. <i>Earth System Science Data</i> , 2020 , 12, 1141-1151	10.5	15
394	Thermal thresholds heighten sensitivity of West Nile virus transmission to changing temperatures in coastal California. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20201065	4.4	2
393	Elevation-dependent response of vegetation dynamics to climate change in a cold mountainous region. <i>Environmental Research Letters</i> , 2020 , 15, 094005	6.2	9
392	Understanding the Asymmetry of Annual Streamflow Responses to Seasonal Warming in the Western United States. <i>Water Resources Research</i> , 2020 , 56, e2020WR027158	5.4	2
391	Observations of an Extreme Atmospheric River Storm With a Diverse Sensor Network. <i>Earth and Space Science</i> , 2020 , 7, e2020EA001129	3.1	11
390	Investigation of the Variability of Near-Surface Temperature Anomaly and Its Causes Over the Tibetan Plateau. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032800	4.4	5
389	The Role of Hydrological Initial Conditions on Atmospheric River Floods in the Russian River Basin. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1667-1686	3.7	11
388	Trends and Interannual Variability in Terrestrial Water Storage Over the Eastern United States, 2003-2016. <i>Water Resources Research</i> , 2019 , 55, 1928-1950	5.4	10
387	Drought and Famine in India, 1870-2016. <i>Geophysical Research Letters</i> , 2019 , 46, 2075-2083	4.9	62

386	Sensitivity of Seasonal Snowfall Attribution to Atmospheric Rivers and Their Reanalysis-Based Detection. <i>Geophysical Research Letters</i> , 2019 , 46, 794-803	4.9	21
385	On the causes of the summer 2015 Eastern Washington wildfires. <i>Environmental Research Communications</i> , 2019 , 1, 011009	3.1	2
384	The Utility of Infrequent Snow Depth Images for Deriving Continuous Space-Time Estimates of Seasonal Snow Water Equivalent. <i>Geophysical Research Letters</i> , 2019 , 46, 5331-5340	4.9	18
383	A Curve-Fitting Method for Estimating Bathymetry From Water Surface Height and Width. <i>Water Resources Research</i> , 2019 , 55, 4288-4303	5.4	12
382	Atmospheric River-Induced Precipitation and Snowpack during the Western United States Cold Season. <i>Journal of Hydrometeorology</i> , 2019 , 20, 613-630	3.7	9
381	Observed Impacts of Anthropogenic Climate Change on Wildfire in California. <i>Earth's Future</i> , 2019 , 7, 892-910	7.9	242
380	The Value of Accurate High-Resolution and Spatially Continuous Snow Information to Streamflow Forecasts. <i>Journal of Hydrometeorology</i> , 2019 , 20, 731-749	3.7	9
379	Characterizing the Role of Wind and Dust in Traffic Accidents in California. <i>GeoHealth</i> , 2019 , 3, 328-336	5	19
378	The Role of Rain-on-Snow in Flooding Over the Conterminous United States. <i>Water Resources Research</i> , 2019 , 55, 8492-8513	5.4	32
377	Climate change impacts on groundwater storage in the Central Valley, California. <i>Climatic Change</i> , 2019 , 157, 387-406	4.5	18
376	Increases in temperature do not translate to increased flooding. <i>Nature Communications</i> , 2019 , 10, 5676	7.4	21
375	Recent Third Pole Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 423-444	6.1	253
374	Estimation of Precipitation over the OLYMPEX Domain during Winter 2015/16. <i>Journal of Hydrometeorology</i> , 2018 , 19, 143-160	3.7	12
373	Dramatic declines in snowpack in the western US. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	213
372	Drought Variability and Trends over the Central United States in the Instrumental Record. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1149-1166	3.7	7
371	Climate Elasticity of Low Flows in the Maritime Western U.S. Mountains. <i>Water Resources Research</i> , 2018 , 54, 5602-5619	5.4	42
370	Glacier Recession and the Response of Summer Streamflow in the Pacific Northwest United States, 1960-2009. <i>Water Resources Research</i> , 2018 , 54, 6202-6225	5.4	28
369	Spatiotemporal variations of annual shallow soil temperature on the Tibetan Plateau during 1983-2013. <i>Climate Dynamics</i> , 2018 , 51, 2209-2227	4.2	15

368	If Precipitation Extremes Are Increasing, Why Aren't Floods?. <i>Water Resources Research</i> , 2018 , 54, 8545-8551	5.4	165
367	Does elevation-dependent warming hold true above 5000 m elevation? Lessons from the Tibetan Plateau. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	34
366	A Climate Data Record (CDR) for the global terrestrial water budget: 1984-2010. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 241-263	5.5	51
365	On the Causes of Declining Colorado River Streamflows. <i>Water Resources Research</i> , 2018 , 54, 6739-6756	5.4	59
364	Tracking an atmospheric river in a warmer climate: from water vapor to economic impacts. <i>Earth System Dynamics</i> , 2018 , 9, 249-266	4.8	19
363	Terrestrial ecosystem model performance in simulating productivity and its vulnerability to climate change in the northern permafrost region. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 430-446	3.7	35
362	How much groundwater did California's Central Valley lose during the 2012-2016 drought?. <i>Geophysical Research Letters</i> , 2017 , 44, 4872-4879	4.9	66
361	Observational breakthroughs lead the way to improved hydrological predictions. <i>Water Resources Research</i> , 2017 , 53, 2591-2597	5.4	15
360	An approach for global monitoring of surface water extent variations in reservoirs using MODIS data. <i>Remote Sensing of Environment</i> , 2017 , 202, 113-128	13.2	90
359	Comments on "Effects of Environmental Temperature Change on the Efficiency of Coal- and Natural Gas-Fired Power Plants". <i>Environmental Science & Technology</i> , 2017 , 51, 5343-5344	10.3	2
358	THE OLYMPIC MOUNTAINS EXPERIMENT (OLYMPEX). <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 2167-2188	6.1	95
357	How much runoff originates as snow in the western United States, and how will that change in the future?. <i>Geophysical Research Letters</i> , 2017 , 44, 6163-6172	4.9	142
356	Lake and wetland ecosystem services measuring water storage and local climate regulation. <i>Water Resources Research</i> , 2017 , 53, 3197-3223	5.4	25
355	Effects of climate change on snowpack and fire potential in the western USA. <i>Climatic Change</i> , 2017 , 141, 287-299	4.5	108
354	Forecasting the Hydroclimatic Signature of the 2015/16 El Niño Event on the Western United States. <i>Journal of Hydrometeorology</i> , 2017 , 18, 177-186	3.7	20
353	How much have California winters warmed over the last century?. <i>Geophysical Research Letters</i> , 2017 , 44, 8893-8900	4.9	9
352	GPM Satellite Radar Measurements of Precipitation and Freezing Level in Atmospheric Rivers: Comparison With Ground-Based Radars and Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 12,747	4.4	15
351	Spatial Variability of Wet Troposphere Delays Over Inland Water Bodies. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 11,329-11,346	4.4	4

350	The 2015 drought in Washington State: a harbinger of things to come?. <i>Environmental Research Letters</i> , 2017 , 12, 114008	6.2	51
349	Land Surface Climate in the Regional Arctic System Model. <i>Journal of Climate</i> , 2016 , 29, 6543-6562	4.4	17
348	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 1015-1037	5.9	83
347	Climate and land cover effects on the temperature of Puget Sound streams. <i>Hydrological Processes</i> , 2016 , 30, 2286-2304	3.3	23
346	Toward a High-Resolution Monitoring of Continental Surface Water Extent and Dynamics, at Global Scale: from GIEMS (Global Inundation Extent from Multi-Satellites) to SWOT (Surface Water Ocean Topography). <i>Surveys in Geophysics</i> , 2016 , 37, 339-355	7.6	23
345	The SWOT Mission and Its Capabilities for Land Hydrology. <i>Surveys in Geophysics</i> , 2016 , 37, 307-337	7.6	247
344	The Contribution of Reservoirs to Global Land Surface Water Storage Variations*. <i>Journal of Hydrometeorology</i> , 2016 , 17, 309-325	3.7	85
343	Evaluation of air/soil temperature relationships simulated by land surface models during winter across the permafrost region. <i>Cryosphere</i> , 2016 , 10, 1721-1737	5.5	29
342	Implications of decadal to century scale glacio-hydrological change for water resources of the Hood River basin, OR, USA. <i>Hydrological Processes</i> , 2016 , 30, 4314	3.3	16
341	Value of long-term streamflow forecasts to reservoir operations for water supply in snow-dominated river catchments. <i>Water Resources Research</i> , 2016 , 52, 4209-4225	5.4	109
340	Perspectives on the causes of exceptionally low 2015 snowpack in the western United States. <i>Geophysical Research Letters</i> , 2016 , 43, 10,980	4.9	65
339	The SWOT Mission and Its Capabilities for Land Hydrology. <i>Space Sciences Series of ISSI</i> , 2016 , 117-147	0.1	29
338	Precipitation Deficit Flash Droughts over the United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1169-1184	5.7	77
337	Drought in the Pacific Northwest, 1920-2013. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2391-2404	3.7	14
336	Human-Induced Changes in the Global Water Cycle. <i>Geophysical Monograph Series</i> , 2016 , 55-69	1.1	9
335	A spatially distributed model for assessment of the effects of changing land use and climate on urban stream quality. <i>Hydrological Processes</i> , 2016 , 30, 4779-4798	3.3	25
334	Uses of Results of Regional Climate Model Experiments for Impacts and Adaptation Studies: the Example of NARCCAP. <i>Current Climate Change Reports</i> , 2015 , 1, 1-9	9	38
333	Seasonal hydrologic responses to climate change in the Pacific Northwest. <i>Water Resources Research</i> , 2015 , 51, 1959-1976	5.4	68

332	Hydroclimatic Conditions Preceding the March 2014 Oso Landslide*. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1243-1249	3.7	16
331	A spatially distributed model for the assessment of land use impacts on stream temperature in small urban watersheds. <i>Hydrological Processes</i> , 2015 , 29, 2331-2345	3.3	66
330	Inroads of remote sensing into hydrologic science during the WRR era. <i>Water Resources Research</i> , 2015 , 51, 7309-7342	5.4	162
329	Continental Runoff into the Oceans (1950-2008). <i>Journal of Hydrometeorology</i> , 2015 , 16, 1502-1520	3.7	30
328	SWOT data assimilation for operational reservoir management on the upper Niger River Basin. <i>Water Resources Research</i> , 2015 , 51, 554-575	5.4	58
327	Predicting glacio-hydrologic change in the headwaters of the Zongo River, Cordillera Real, Bolivia. <i>Water Resources Research</i> , 2015 , 51, 9029-9052	5.4	21
326	Is climate change implicated in the 2013-2014 California drought? A hydrologic perspective. <i>Geophysical Research Letters</i> , 2015 , 42, 2805-2813	4.9	116
325	Heat wave flash droughts in decline. <i>Geophysical Research Letters</i> , 2015 , 42, 2823-2829	4.9	108
324	On Critiques of Stationarity is Dead: Whither Water Management? <i>Water Resources Research</i> , 2015 , 51, 7785-7789	5.4	150
323	Changes in observed climate extremes in global urban areas. <i>Environmental Research Letters</i> , 2015 , 10, 024005	6.2	145
322	On Critiques of Stationarity is Dead: Whither Water Management? 2015 , 51, 7785		1
321	A sensitivity-based approach to evaluating future changes in Colorado River discharge. <i>Climatic Change</i> , 2014 , 122, 621-634	4.5	41
320	Runoff sensitivity to global mean temperature change in the CMIP5 Models. <i>Geophysical Research Letters</i> , 2014 , 41, 5492-5498	4.9	48
319	Modeling seasonal snowpack evolution in the complex terrain and forested Colorado Headwaters region: A model intercomparison study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,795-13,819	4.4	69
318	Modeling the effect of glacier recession on streamflow response using a coupled glacio-hydrological model. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 787-802	5.5	57
317	Objective Drought Classification Using Multiple Land Surface Models. <i>Journal of Hydrometeorology</i> , 2014 , 15, 990-1010	3.7	52
316	Understanding Uncertainties in Future Colorado River Streamflow. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 59-78	6.1	141
315	Evaluation of Real-Time Satellite Precipitation Data for Global Drought Monitoring. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1651-1660	3.7	26

314	Hydrologic Prediction over the Conterminous United States Using the National Multi-Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1457-1472	3.7	69
313	A Prototype Global Drought Information System Based on Multiple Land Surface Models. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1661-1676	3.7	49
312	Hydrological Changes: Historical Analysis, Contemporary Status, and Future Projections. <i>Springer Environmental Science and Engineering</i> , 2013 , 111-154		29
311	Monitoring and Understanding Changes in Heat Waves, Cold Waves, Floods, and Droughts in the United States: State of Knowledge. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 821-834	6.1	300
310	Global evaluation of MTCLIM and related algorithms for forcing of ecological and hydrological models. <i>Agricultural and Forest Meteorology</i> , 2013 , 176, 38-49	5.8	132
309	Hydrologic Processes in Global Climate Change. <i>Special Publications</i> , 2013 , 14-15		
308	Relationships between Recent Pan-Arctic Snow Cover and Hydroclimate Trends. <i>Journal of Climate</i> , 2013 , 26, 2048-2064	4.4	22
307	Global river discharge and water temperature under climate change. <i>Global Environmental Change</i> , 2013 , 23, 450-464	10.1	482
306	A Long-Term Hydrologically Based Dataset of Land Surface Fluxes and States for the Conterminous United States: Update and Extensions. <i>Journal of Climate</i> , 2013 , 26, 9384-9392	4.4	411
305	Are climatic or land cover changes the dominant cause of runoff trends in the Upper Mississippi River Basin?. <i>Geophysical Research Letters</i> , 2013 , 40, 1104-1110	4.9	76
304	Regional parameter estimation for the unified land model. <i>Water Resources Research</i> , 2013 , 49, 100-114	5.4	15
303	Multi-RCM ensemble downscaling of NCEP CFS winter season forecasts: Implications for seasonal hydrologic forecast skill. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 10,770-10,790	4.4	14
302	Present state of global wetland extent and wetland methane modelling: conclusions from a model inter-comparison project (WETCHIMP). <i>Biogeosciences</i> , 2013 , 10, 753-788	4.6	382
301	Present state of global wetland extent and wetland methane modelling: methodology of a model inter-comparison project (WETCHIMP). <i>Geoscientific Model Development</i> , 2013 , 6, 617-641	6.3	128
300	On the sources of global land surface hydrologic predictability. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 2781-2796	5.5	78
299	On the contribution of groundwater storage to interannual streamflow anomalies in the Colorado River basin. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1475-1491	5.5	22
298	Improving Understanding of the Global Hydrologic Cycle 2013 , 151-184		13
297	Implications of Representing Snowpack Stratigraphy for the Assimilation of Passive Microwave Satellite Observations. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1493-1506	3.7	22

296	Urban precipitation extremes: How reliable are regional climate models?. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	45
295	Changes in winter precipitation extremes for the western United States under a warmer climate as simulated by regional climate models. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	101
294	21st century runoff sensitivities of major global river basins. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	73
293	Continental-scale water and energy flux analysis and validation for the North American Land Data Assimilation System project phase 2 (NLDAS-2): 1. Intercomparison and application of model products. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		373
292	Reply to comment by Keith J. Beven and Hannah L. Cloke on Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2012 , 48,	5.4	26
291	Relationship between hourly extreme precipitation and local air temperature in the United States. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	99
290	Global monitoring of large reservoir storage from satellite remote sensing. <i>Water Resources Research</i> , 2012 , 48,	5.4	192
289	Soil Moisture, Snow, and Seasonal Streamflow Forecasts in the United States. <i>Journal of Hydrometeorology</i> , 2012 , 13, 189-203	3.7	105
288	Vulnerability of US and European electricity supply to climate change. <i>Nature Climate Change</i> , 2012 , 2, 676-681	21.4	361
287	Coupled daily streamflow and water temperature modelling in large river basins. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4303-4321	5.5	104
286	Multi-criteria parameter estimation for the Unified Land Model. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 3029-3048	5.5	27
285	Value of medium range weather forecasts in the improvement of seasonal hydrologic prediction skill. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 2825-2838	5.5	16
284	Uncertainties in North American Land Data Assimilation Systems over the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2012 , 13, 996-1009	3.7	44
283	Predictability of Evapotranspiration Patterns Using Remotely Sensed Vegetation Dynamics during the North American Monsoon. <i>Journal of Hydrometeorology</i> , 2012 , 13, 103-121	3.7	52
282	Hydrologic Sensitivities of Colorado River Runoff to Changes in Precipitation and Temperature*. <i>Journal of Hydrometeorology</i> , 2012 , 13, 932-949	3.7	139
281	A prominent pattern of year-to-year variability in Indian Summer Monsoon Rainfall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7213-7	11.5	159
280	Progress in Hydrological Modeling over High Latitudes: Under Arctic Climate System Study (ACSYS). <i>Atmospheric and Oceanographic Sciences Library</i> , 2012 , 357-380		3
279	The contribution of glacier melt to streamflow. <i>Environmental Research Letters</i> , 2012 , 7, 034029	6.2	97

278	Moisture flux convergence in regional and global climate models: Implications for droughts in the southwestern United States under climate change. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	42
277	Do Climate Forecast System (CFSv2) forecasts improve seasonal soil moisture prediction?. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	63
276	Change in spring snowmelt timing in Eurasian Arctic rivers. <i>Journal of Geophysical Research</i> , 2011 , 116,		47
275	Evaluating climate change over the Colorado River basin using regional climate models. <i>Journal of Geophysical Research</i> , 2011 , 116,		63
274	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2011 , 47,	5.4	520
273	Forecasting transboundary river water elevations from space. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	71
272	Climatic trends in major U.S. urban areas, 1950-2009. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	43
271	The importance of warm season warming to western U.S. streamflow changes. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	57
270	Soil Moisture Drought in China, 1950-2006. <i>Journal of Climate</i> , 2011 , 24, 3257-3271	4.4	322
269	Seasonal hydrologic prediction in the United States: understanding the role of initial hydrologic conditions and seasonal climate forecast skill. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 3529-3538	5.5	118
268	Hydrologic uncertainties in climate change from IPCC AR4 GCM simulations of the Chungju Basin, Korea. <i>Journal of Hydrology</i> , 2011 , 401, 90-105	6	144
267	Effects of mid-twenty-first century climate and land cover change on the hydrology of the Puget Sound basin, Washington. <i>Hydrological Processes</i> , 2011 , 25, 1729-1753	3.3	54
266	Assimilation of virtual wide swath altimetry to improve Arctic river modeling. <i>Remote Sensing of Environment</i> , 2011 , 115, 373-381	13.2	120
265	Drought Monitoring for Washington State: Indicators and Applications. <i>Journal of Hydrometeorology</i> , 2011 , 12, 66-83	3.7	84
264	Potential Utility of the Real-Time TMPA-RT Precipitation Estimates in Streamflow Prediction. <i>Journal of Hydrometeorology</i> , 2011 , 12, 444-455	3.7	48
263	On the causes of the shrinking of Lake Chad. <i>Environmental Research Letters</i> , 2011 , 6, 034021	6.2	120
262	The role of surface energy fluxes in pan-Arctic snow cover changes. <i>Environmental Research Letters</i> , 2011 , 6, 035204	6.2	13
261	Development of a Unified Land Model for Prediction of Surface Hydrology and Land-Atmosphere Interactions. <i>Journal of Hydrometeorology</i> , 2011 , 12, 1299-1320	3.7	26

260	Application of a Medium-Range Global Hydrologic Probabilistic Forecast Scheme to the Ohio River Basin. <i>Weather and Forecasting</i> , 2011 , 26, 425-446	2.1	51
259	Skill in streamflow forecasts derived from large-scale estimates of soil moisture and snow. <i>Nature Geoscience</i> , 2010 , 3, 613-616	18.3	195
258	Modeling the Effects of Lakes and Wetlands on the Water Balance of Arctic Environments. <i>Journal of Hydrometeorology</i> , 2010 , 11, 276-295	3.7	103
257	Seasonal Hydrologic Forecasting: Do Multimodel Ensemble Averages Always Yield Improvements in Forecast Skill?. <i>Journal of Hydrometeorology</i> , 2010 , 11, 1358-1372	3.7	43
256	Use of satellite snow-cover data for streamflow prediction in the Feather River Basin, California. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3745-3762	3.1	28
255	Systematic biases in large-scale estimates of wetland methane emissions arising from water table formulations. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	26
254	Surface radiative fluxes over the pan-Arctic land region: Variability and trends. <i>Journal of Geophysical Research</i> , 2010 , 115,		13
253	Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010 , 23, 5715-5737	4.4	253
252	Estimating the water budget of major US river basins via remote sensing. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3955-3978	3.1	94
251	Satellite-based observations of hydrological processes. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3661-3667	3.1	11
250	Noah LSM Snow Model Diagnostics and Enhancements. <i>Journal of Hydrometeorology</i> , 2010 , 11, 721-738	3.7	121
249	Calibration and Downscaling Methods for Quantitative Ensemble Precipitation Forecasts. <i>Weather and Forecasting</i> , 2010 , 25, 1603-1627	2.1	53
248	Dynamics of Terrestrial Water Storage Change from Satellite and Surface Observations and Modeling. <i>Journal of Hydrometeorology</i> , 2010 , 11, 156-170	3.7	60
247	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 689-697	4.7	14
246	Hydrologic impacts of climate change on the Nile River Basin: implications of the 2007 IPCC scenarios. <i>Climatic Change</i> , 2010 , 100, 433-461	4.5	215
245	Climate change impacts on water management in the Puget Sound region, Washington State, USA. <i>Climatic Change</i> , 2010 , 102, 261-286	4.5	48
244	Precipitation extremes and the impacts of climate change on stormwater infrastructure in Washington State. <i>Climatic Change</i> , 2010 , 102, 319-349	4.5	132
243	Assessing regional impacts and adaptation strategies for climate change: the Washington Climate Change Impacts Assessment. <i>Climatic Change</i> , 2010 , 102, 9-27	4.5	19

242	Implications of 21st century climate change for the hydrology of Washington State. <i>Climatic Change</i> , 2010 , 102, 225-260	4.5	335
241	Climate change impacts on water management and irrigated agriculture in the Yakima River Basin, Washington, USA. <i>Climatic Change</i> , 2010 , 102, 287-317	4.5	87
240	The Surface Water and Ocean Topography Mission: Observing Terrestrial Surface Water and Oceanic Submesoscale Eddies. <i>Proceedings of the IEEE</i> , 2010 , 98, 766-779	14.3	208
239	Preliminary Characterization of SWOT Hydrology Error Budget and Global Capabilities. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 6-19	4.7	80
238	Terrestrial Water-Storage Contributions to Sea-Level Rise and Variability 2010 , 226-255		27
237	Interactions Between Land Cover/Use Change and Hydrology 2010 , 137-175		
236	Use of satellite data to assess the impacts of irrigation withdrawals on Upper Klamath Lake, Oregon. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 617-627	5.5	25
235	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009 , 22, 5251-5272	4.4	260
234	Global and Continental Drought in the Second Half of the Twentieth Century: Severity, Area, Duration Analysis and Temporal Variability of Large-Scale Events. <i>Journal of Climate</i> , 2009 , 22, 1962-1981	4.4	249
233	Estimation of the Surface Water Budget of the La Plata Basin. <i>Journal of Hydrometeorology</i> , 2009 , 10, 981-998	3.7	24
232	Multimodel Ensemble Reconstruction of Drought over the Continental United States. <i>Journal of Climate</i> , 2009 , 22, 2694-2712	4.4	139
231	SnowSTAR2002 Transect Reconstruction Using a Multilayered Energy and Mass Balance Snow Model. <i>Journal of Hydrometeorology</i> , 2009 , 10, 1151-1167	3.7	10
230	Real-Time Precipitation Estimation Based on Index Station Percentiles*. <i>Journal of Hydrometeorology</i> , 2009 , 10, 266-277	3.7	18
229	Implications of global climate change for snowmelt hydrology in the twenty-first century. <i>Hydrological Processes</i> , 2009 , 23, 962-972	3.3	322
228	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM). I: Model intercomparison with current land use. <i>Advances in Water Resources</i> , 2009 , 32, 129-146	4.7	141
227	Climate change and river ecosystems: protection and adaptation options. <i>Environmental Management</i> , 2009 , 44, 1053-68	3.1	260
226	Assessing the impact of land use change on hydrology by ensemble modelling (LUCHEM) II: Ensemble combinations and predictions. <i>Advances in Water Resources</i> , 2009 , 32, 147-158	4.7	108
225	Assessing the impact of land use change on hydrology by ensemble modeling (LUCHEM) III: Scenario analysis. <i>Advances in Water Resources</i> , 2009 , 32, 159-170	4.7	68

224	Sensitivity of the water resources of Rio Yaqui Basin, Mexico, to agriculture extensification under multiscale climate conditions. <i>Water Resources Research</i> , 2009 , 45,	5.4	21
223	Satellite-based near-real-time estimation of irrigated crop water consumption. <i>Journal of Geophysical Research</i> , 2009 , 114,		79
222	Evaluation of forest snow processes models (SnowMIP2). <i>Journal of Geophysical Research</i> , 2009 , 114,		250
221	Modeling snow accumulation and ablation processes in forested environments. <i>Water Resources Research</i> , 2009 , 45,	5.4	167
220	Effects of fire-precipitation timing and regime on post-fire sediment delivery in Pacific Northwest forests. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	15
219	Remote sensing: hydrology. <i>Progress in Physical Geography</i> , 2009 , 33, 490-509	3.5	93
218	Effects of a century of land cover and climate change on the hydrology of the Puget Sound basin. <i>Hydrological Processes</i> , 2009 , 23, 907-933	3.3	136
217	The Northern Eurasia Earth Science Partnership: An Example of Science Applied to Societal Needs. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 671-688	6.1	38
216	Evaluating the Influence of Antecedent Soil Moisture on Variability of the North American Monsoon Precipitation in the Coupled MM5/VIC Modeling System. <i>Journal of Advances in Modeling Earth Systems</i> , 2009 , 2,	7.1	14
215	Assessing the Impacts of Global Warming on Snowpack in the Washington Cascades*. <i>Journal of Climate</i> , 2009 , 22, 2758-2772	4.4	52
214	Evaluation of TRMM Multisatellite Precipitation Analysis (TMPA) and Its Utility in Hydrologic Prediction in the La Plata Basin. <i>Journal of Hydrometeorology</i> , 2008 , 9, 622-640	3.7	385
213	Integration of the variable infiltration capacity model soil hydrology scheme into the community land model. <i>Journal of Geophysical Research</i> , 2008 , 113,		18
212	Land use impact on the Uruguay River discharge. <i>Geophysical Research Letters</i> , 2008 , 35, n/a-n/a	4.9	32
211	Estimation of bathymetric depth and slope from data assimilation of swath altimetry into a hydrodynamic model. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	146
210	An ensemble approach for attribution of hydrologic prediction uncertainty. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	156
209	Extreme precipitation trends associated with tropical cyclones in the core of the North American monsoon. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	24
208	Characterization of Errors in a Coupled Snow Hydrology Microwave Emission Model. <i>Journal of Hydrometeorology</i> , 2008 , 9, 149-164	3.7	40
207	Have We Dropped the Ball on Water Resources Research?. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 491-492	2.8	13

206	Climate change. Stationarity is dead: whither water management?. <i>Science</i> , 2008 , 319, 573-4	33.3	2737
205	Evaluation of Precipitation Products for Global Hydrological Prediction. <i>Journal of Hydrometeorology</i> , 2008 , 9, 388-407	3.7	58
204	How Essential is Hydrologic Model Calibration to Seasonal Streamflow Forecasting?. <i>Journal of Hydrometeorology</i> , 2008 , 9, 1350-1363	3.7	92
203	Application of New Precipitation and Reconstructed Streamflow Products to Streamflow Trend Attribution in Northern Eurasia. <i>Journal of Climate</i> , 2008 , 21, 1807-1828	4.4	77
202	Landscape structure and use, climate, and water movement in the Mekong River basin. <i>Hydrological Processes</i> , 2008 , 22, 1731-1746	3.3	65
201	Hydrologic prediction for urban watersheds with the Distributed HydrologySoilVegetation Model. <i>Hydrological Processes</i> , 2008 , 22, 4205-4213	3.3	78
200	A multimodel simulation of pan-Arctic hydrology. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		71
199	Measuring surface water from space. <i>Reviews of Geophysics</i> , 2007 , 45,	23.1	614
198	Effects of 20th century warming and climate variability on flood risk in the western U.S.. <i>Water Resources Research</i> , 2007 , 43,	5.4	253
197	Measuring global oceans and terrestrial freshwater from space. <i>Eos</i> , 2007 , 88, 253-257	1.5	12
196	Prospects for river discharge and depth estimation through assimilation of swath-altimetry into a raster-based hydrodynamics model. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	186
195	Simulation of reservoir influences on annual and seasonal streamflow changes for the Lena, Yenisei, and Ob' rivers. <i>Journal of Geophysical Research</i> , 2007 , 112,		96
194	Twentieth-Century Trends in Runoff, Evapotranspiration, and Soil Moisture in the Western United States*. <i>Journal of Climate</i> , 2007 , 20, 1468-1486	4.4	185
193	A multimodel ensemble approach to assessment of climate change impacts on the hydrology and water resources of the Colorado River Basin. <i>Hydrology and Earth System Sciences</i> , 2007 , 11, 1417-1434	5.5	380
192	Hydrologic effects of land and water management in North America and Asia: 1700-1992. <i>Hydrology and Earth System Sciences</i> , 2007 , 11, 1035-1045	5.5	73
191	Design of a soil sampling study to determine the habitability of the emergency declaration area, Love Canal, New York. <i>Environmetrics</i> , 2007 , 1, 89-119	1.3	1
190	Role of Antecedent Land Surface Conditions in Warm Season Precipitation over Northwestern Mexico. <i>Journal of Climate</i> , 2007 , 20, 1774-1791	4.4	29
189	MEETING SUMMARIES. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 1625-1634	6.1	30

188	GEWEX Contributions to Large-Scale Hydrometeorology. <i>Journal of Hydrometeorology</i> , 2007 , 8, 629-641	3.7	9
187	Long-Term Climate and Derived Surface Hydrology and Energy Flux Data for Mexico: 1925-2004. <i>Journal of Climate</i> , 2007 , 20, 1936-1946	4.4	73
186	International Global Precipitation Measurement (GPM) Program and Mission: An Overview 2007 , 611-653		78
185	Supplement to Predicting Drought on Seasonal-to-Decadal Time Scales: A National Drought Attribution and Prediction Consortium. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, S9-S10	6.1	12
184	Measuring surface water from space 2007 , 45,		2
183	Assimilating remotely sensed snow observations into a macroscale hydrology model. <i>Advances in Water Resources</i> , 2006 , 29, 872-886	4.7	324
182	Correction of Global Precipitation Products for Orographic Effects. <i>Journal of Climate</i> , 2006 , 19, 15-38	4.4	176
181	The NAME 2004 Field Campaign and Modeling Strategy. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 79-94	6.1	90
180	A Test Bed for New Seasonal Hydrologic Forecasting Approaches in the Western United States. <i>Bulletin of the American Meteorological Society</i> , 2006 , 87, 1699-1712	6.1	182
179	Reconciling Simulated Moisture Fluxes Resulting from Alternate Hydrologic Model Time Steps and Energy Budget Closure Assumptions. <i>Journal of Hydrometeorology</i> , 2006 , 7, 355-370	3.7	8
178	Toward a Unified View of the American Monsoon Systems. <i>Journal of Climate</i> , 2006 , 19, 4977-5000	4.4	564
177	A spatially distributed model for the dynamic prediction of sediment erosion and transport in mountainous forested watersheds. <i>Water Resources Research</i> , 2006 , 42,	5.4	38
176	Evaluation of surface water fluxes of the pan-Arctic land region with a land surface model and ERA-40 reanalysis. <i>Journal of Geophysical Research</i> , 2006 , 111,		58
175	Trends in 20th century drought over the continental United States. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	199
174	Anthropogenic impacts on continental surface water fluxes. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	172
173	Flood prediction in the future: Recognizing hydrologic issues in anticipation of the Global Precipitation Measurement mission. <i>Water Resources Research</i> , 2006 , 42,	5.4	44
172	Use of Satellite Data for Streamflow and Reservoir Storage Forecasts in the Snake River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006 , 132, 97-110	2.8	48
171	Effects of irrigation on the water and energy balances of the Colorado and Mekong river basins. <i>Journal of Hydrology</i> , 2006 , 324, 210-223	6	226

170	The Role of Climate Forecasts in Western U.S. Power Planning. <i>Journal of Applied Meteorology and Climatology</i> , 2006 , 45, 653-673	2.7	35
169	Effects of Temperature and Precipitation Variability on Snowpack Trends in the Western United States*. <i>Journal of Climate</i> , 2005 , 18, 4545-4561	4.4	392
168	A retrospective assessment of National Centers for Environmental Prediction climate model-based ensemble hydrologic forecasting in the western United States. <i>Journal of Geophysical Research</i> , 2005 , 110,		77
167	Streamflow simulations of the terrestrial Arctic domain. <i>Journal of Geophysical Research</i> , 2005 , 110,		91
166	Production of Temporally Consistent Gridded Precipitation and Temperature Fields for the Continental United States*. <i>Journal of Hydrometeorology</i> , 2005 , 6, 330-336	3.7	208
165	Observations of the Global Water Cycle [Global Monitoring Networks 2005 ,		4
164	Potential impacts of a warming climate on water availability in snow-dominated regions. <i>Nature</i> , 2005 , 438, 303-9	50.4	2843
163	Detection Time for Plausible Changes in Annual Precipitation, Evapotranspiration, and Streamflow in Three Mississippi River Sub-Basins. <i>Climatic Change</i> , 2005 , 72, 17-36	4.5	38
162	Role of Antecedent Land Surface Conditions on North American Monsoon Rainfall Variability*. <i>Journal of Climate</i> , 2005 , 18, 3104-3121	4.4	55
161	DECLINING MOUNTAIN SNOWPACK IN WESTERN NORTH AMERICA*. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 39-50	6.1	1034
160	Twentieth-Century Drought in the Conterminous United States. <i>Journal of Hydrometeorology</i> , 2005 , 6, 985-1001	3.7	354
159	Parameterization of Blowing-Snow Sublimation in a Macroscale Hydrology Model. <i>Journal of Hydrometeorology</i> , 2004 , 5, 745-762	3.7	92
158	PREDICTION OF STREAM TEMPERATURE IN FORESTED WATERSHEDS1. <i>Journal of the American Water Resources Association</i> , 2004 , 40, 197-213	2.1	65
157	REPLY TO DISCUSSION by John D. Fox, Jr.1. <i>Journal of the American Water Resources Association</i> , 2004 , 40, 1661-1662	2.1	4
156	Evaluation of Hydrologically Relevant PCM Climate Variables and Large-Scale Variability over the Continental U.S.. <i>Climatic Change</i> , 2004 , 62, 45-74	4.5	8
155	The Effects of Climate Change on the Hydrology and Water Resources of the Colorado River Basin. <i>Climatic Change</i> , 2004 , 62, 337-363	4.5	686
154	Hydrologic Implications of Dynamical and Statistical Approaches to Downscaling Climate Model Outputs. <i>Climatic Change</i> , 2004 , 62, 189-216	4.5	1227
153	Potential Implications of PCM Climate Change Scenarios for Sacramento-San Joaquin River Basin Hydrology and Water Resources. <i>Climatic Change</i> , 2004 , 62, 257-281	4.5	175

152	Mitigating the Effects of Climate Change on the Water Resources of the Columbia River Basin. <i>Climatic Change</i> , 2004 , 62, 233-256	4.5	271
151	An intercomparison of soil moisture fields in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2004 , 109,		78
150	Effect of precipitation sampling error on simulated hydrological fluxes and states: Anticipating the Global Precipitation Measurement satellites. <i>Journal of Geophysical Research</i> , 2004 , 109,		147
149	The multi-institution North American Land Data Assimilation System (NLDAS): Utilizing multiple GCIP products and partners in a continental distributed hydrological modeling system. <i>Journal of Geophysical Research</i> , 2004 , 109,		847
148	Variability and potential sources of predictability of North American runoff. <i>Water Resources Research</i> , 2004 , 40,	5.4	59
147	Potential Effects of Long-Lead Hydrologic Predictability on Missouri River Main-Stem Reservoirs*. <i>Journal of Climate</i> , 2004 , 17, 174-186	4.4	77
146	Hydrologic Implications of Dynamical and Statistical Approaches to Downscaling Climate Model Outputs 2004 , 62, 189		1
145	Detection of Intensification in Global- and Continental-Scale Hydrological Cycles: Temporal Scale of Evaluation. <i>Journal of Climate</i> , 2003 , 16, 535-547	4.4	145
144	The Role of Climate in Water Resources Planning and Management. <i>Water Resources Monograph</i> , 2003 , 247-266		1
143	Preparing for Climatic Change: The Water, Salmon, and Forests of the Pacific Northwest. <i>Climatic Change</i> , 2003 , 61, 45-88	4.5	242
142	Evaluation of the snow-covered area data product from MODIS. <i>Hydrological Processes</i> , 2003 , 17, 59-71	3.3	161
141	Assessing snowmelt dynamics with NASA scatterometer (NSCAT) data and a hydrologic process model. <i>Remote Sensing of Environment</i> , 2003 , 86, 52-69	13.2	20
140	Adjustment of global gridded precipitation for systematic bias. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		323
139	Predictability of seasonal runoff in the Mississippi River basin. <i>Journal of Geophysical Research</i> , 2003 , 108,		75
138	The role of surface storage in a low-gradient Arctic watershed. <i>Water Resources Research</i> , 2003 , 39,	5.4	96
137	The need for global, satellite-based observations of terrestrial surface waters. <i>Eos</i> , 2003 , 84, 269-276	1.5	76
136	Simulation of spatial variability in snow and frozen soil. <i>Journal of Geophysical Research</i> , 2003 , 108,		130
135	Geophysics. Tracking fresh water from space. <i>Science</i> , 2003 , 301, 1491-4	33.3	218

134	Simulation of high-latitude hydrological processes in the TorneÅkalix basin: PILPS Phase 2(e): 1: Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 2003 , 38, 1-30	4.2	177
133	Simulation of high latitude hydrological processes in the TorneÅkalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003 , 38, 31-53	4.2	100
132	Simulation of high-latitude hydrological processes in the TorneÅkalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003 , 38, 55-71	4.2	19
131	Variable infiltration capacity cold land process model updates. <i>Global and Planetary Change</i> , 2003 , 38, 151-159	4.2	256
130	IN BOX. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 1513-1524	6.1	63
129	Effects of land-cover changes on the hydrological response of interior Columbia River basin forested catchments. <i>Hydrological Processes</i> , 2002 , 16, 2499-2520	3.3	81
128	Hatchery Surpluses in the Pacific Northwest. <i>Fisheries</i> , 2002 , 27, 16-27	1.1	36
127	A Long-Term Hydrologically Based Dataset of Land Surface Fluxes and States for the Conterminous United States*. <i>Journal of Climate</i> , 2002 , 15, 3237-3251	4.4	1079
126	Economic Value of Long-Lead Streamflow Forecasts for Columbia River Hydropower. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2002 , 128, 91-101	2.8	196
125	Long-range experimental hydrologic forecasting for the eastern United States. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 6-1		649
124	Water balance dynamics of a boreal forest watershed: White Gull Creek basin, 1994-1996. <i>Water Resources Research</i> , 2002 , 38, 37-1-37-12	5.4	10
123	Influence of spatial resolution on simulated streamflow in a macroscale hydrologic model. <i>Water Resources Research</i> , 2002 , 38, 29-1-29-10	5.4	53
122	Measurement of snow interception and canopy effects on snow accumulation and melt in a mountainous maritime climate, Oregon, United States. <i>Water Resources Research</i> , 2002 , 38, 5-1-5-16	5.4	187
121	Evaluation of NCEP/NCAR reanalysis water and energy budgets using macroscale hydrologic model simulations. <i>Water Science and Application</i> , 2001 , 137-158		12
120	Effects of forest roads on flood flows in the Deschutes River, Washington. <i>Earth Surface Processes and Landforms</i> , 2001 , 26, 115-134	3.7	105
119	Hydrologic Sensitivity of Global Rivers to Climate Change. <i>Climatic Change</i> , 2001 , 50, 143-175	4.5	451
118	Global Retrospective Estimation of Soil Moisture Using the Variable Infiltration Capacity Land Surface Model, 1980-93. <i>Journal of Climate</i> , 2001 , 14, 1790-1808	4.4	336
117	Predicting the Discharge of Global Rivers. <i>Journal of Climate</i> , 2001 , 14, 3307-3323	4.4	390

116	Reply [to Comment on Modeling ground heat flux in land surface parameterization schemes] by Xu Liang, Eric F. Wood, and Dennis P. Lettenmaier. <i>Journal of Geophysical Research</i> , 2001 , 106, 17893-17896		2
115	Validation of land surface models using satellite-derived surface temperature. <i>Journal of Geophysical Research</i> , 2001 , 106, 20085-20099		11
114	Evaluation of the land surface water budget in NCEP/NCAR and NCEP/DOE reanalyses using an off-line hydrologic model. <i>Journal of Geophysical Research</i> , 2001 , 106, 17841-17862		117
113	Passive microwave remote sensing of snow constrained by hydrological simulations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2001 , 39, 1744-1756	8.1	19
112	The Effects of Climate Change on Water Management Strategies and Demands in the Central Valley of California 2001 , 1		
111	The effects of forest roads and harvest on catchment hydrology in a mountainous maritime environment. <i>Water Science and Application</i> , 2001 , 145-164		27
110	Hydrologic effects of logging in western Washington, United States. <i>Water Resources Research</i> , 2000 , 36, 3223-3240	5.4	88
109	Satellite-derived digital elevation model accuracy: hydrological modelling requirements. <i>Hydrological Processes</i> , 2000 , 14, 177-194	3.3	12
108	Effects of land cover change on streamflow in the interior Columbia River Basin (USA and Canada). <i>Hydrological Processes</i> , 2000 , 14, 867-885	3.3	168
107	Effects of Digital Elevation Model Accuracy on Hydrologic Predictions. <i>Remote Sensing of Environment</i> , 2000 , 74, 432-444	13.2	91
106	Reply to comment by Kirshen on Assessing Climate Change Implications for Water Resources Planning. <i>Climatic Change</i> , 2000 , 44, 539-541	4.5	
105	Long-range climate forecasting and its use for water management in the Pacific Northwest region of North America. <i>Journal of Hydroinformatics</i> , 2000 , 2, 163-182	2.6	24
104	Hydrological Aspects of Weather Prediction and Flood Warnings: Report of the Ninth Prospectus Development Team of the U.S. Weather Research Program. <i>Bulletin of the American Meteorological Society</i> , 2000 , 81, 2665-2680	6.1	51
103	Comment on Five-minute, 15 and 15 data sets of continental watersheds and river networks for use in regional and global hydrologic and climate modeling studies by Graham et al.. <i>Water Resources Research</i> , 2000 , 36, 3117-3120	5.4	6
102	Dependence of Extreme Daily Maximum Temperatures on Antecedent Soil Moisture in the Contiguous United States during Summer. <i>Journal of Climate</i> , 2000 , 13, 2641-2651	4.4	103
101	Macroscale hydrological modeling using remotely sensed inputs: Application to the Ohio River basin. <i>Journal of Geophysical Research</i> , 2000 , 105, 12499-12516		14
100	Columbia River Streamflow Forecasting Based on ENSO and PDO Climate Signals. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1999 , 125, 333-341	2.8	247
99	Simulations of the ENSO Hydroclimate Signals in the Pacific Northwest Columbia River Basin. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 2313-2329	6.1	71

98	Hydrologic effects of frozen soils in the upper Mississippi River basin. <i>Journal of Geophysical Research</i> , 1999 , 104, 19599-19610		299
97	EFFECTS OF CLIMATE CHANGE ON HYDROLOGY AND WATER RESOURCES IN THE COLUMBIA RIVER BASIN1. <i>Journal of the American Water Resources Association</i> , 1999 , 35, 1597-1623	2.1	335
96	Water Resources Implications of Global Warming: A U.S. Regional Perspective. <i>Climatic Change</i> , 1999 , 43, 537-579	4.5	187
95	Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parametrization Schemes. <i>Climate Dynamics</i> , 1999 , 15, 673-684	4.2	92
94	A simple algorithm for generating streamflow networks for grid-based, macroscale hydrological models 1999 , 13, 1269-1275		41
93	Estimation of the ARNO model baseflow parameters using daily streamflow data. <i>Journal of Hydrology</i> , 1999 , 222, 37-54	6	24
92	Modeling ground heat flux in land surface parameterization schemes. <i>Journal of Geophysical Research</i> , 1999 , 104, 9581-9600		80
91	A comparison of simplified methods for routing topographically driven subsurface flow. <i>Water Resources Research</i> , 1999 , 35, 255-264	5.4	97
90	A simplified approach for predicting shortwave radiation transfer through boreal forest canopies. <i>Journal of Geophysical Research</i> , 1999 , 104, 27859-27868		39
89	An Agenda for Land Surface Hydrology Research and a Call for the Second International Hydrological Decade. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 2043-2058	6.1	160
88	Application of a GIS-based distributed hydrology model for prediction of forest harvest effects on peak stream flow in the Pacific Northwest. <i>Hydrological Processes</i> , 1998 , 12, 889-904	3.3	131
87	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) Red-Arkansas River basin experiment:: 1. Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 1998 , 19, 115-135	4.2	243
86	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:: <i>Global and Planetary Change</i> , 1998 , 19, 137-159	4.2	79
85	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:: <i>Global and Planetary Change</i> , 1998 , 19, 161-179	4.2	137
84	A case study of statistical downscaling in Australia using weather classification by recursive partitioning. <i>Journal of Hydrology</i> , 1998 , 212-213, 362-379	6	35
83	Regional scale hydrology: I. Formulation of the VIC-2L model coupled to a routing model. <i>Hydrological Sciences Journal</i> , 1998 , 43, 131-141	3.5	362
82	Regional scale hydrology: II. Application of the VIC-2L model to the Weser River, Germany. <i>Hydrological Sciences Journal</i> , 1998 , 43, 143-158	3.5	127
81	Sensitivity of Latent Heat Flux from PILPS Land-Surface Schemes to Perturbations of Surface Air Temperature. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 1909-1927	2.1	33

80	HYDROLOGICAL MODELING OF CONTINENTAL-SCALE BASINS. <i>Annual Review of Earth and Planetary Sciences</i> , 1997 , 25, 279-300	15.3	119
79	Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. <i>Journal of Climate</i> , 1997 , 10, 1194-1215	4.4	271
78	Spatiotemporal analysis of radar-estimated precipitation during the BOREAS summer 1994 field campaigns. <i>Journal of Geophysical Research</i> , 1997 , 102, 29417-29427		6
77	Point evaluation of a surface hydrology model for BOREAS. <i>Journal of Geophysical Research</i> , 1997 , 102, 29367-29378		31
76	BOREAS in 1997: Experiment overview, scientific results, and future directions. <i>Journal of Geophysical Research</i> , 1997 , 102, 28731-28769		367
75	Preface to the special section on Scale Problems in Hydrology. <i>Water Resources Research</i> , 1997 , 33, 2881-2881	5.281	14
74	Streamflow simulation for continental-scale river basins. <i>Water Resources Research</i> , 1997 , 33, 711-724	5.4	334
73	Development of regional parameter estimation equations for a macroscale hydrologic model. <i>Journal of Hydrology</i> , 1997 , 197, 230-257	6	142
72	Application of regional parameter estimation schemes to simulate the water balance of a large continental river. <i>Journal of Hydrology</i> , 1997 , 197, 258-285	6	42
71	Assessing Climate Change Implications for Water Resources Planning. <i>Climatic Change</i> , 1997 , 37, 203-228	4.5	49
70	Surface soil moisture parameterization of the VIC-2L model: Evaluation and modification. <i>Global and Planetary Change</i> , 1996 , 13, 195-206	4.2	635
69	Application of a macroscale hydrologic model to estimate the water balance of the Arkansas-Red River Basin. <i>Journal of Geophysical Research</i> , 1996 , 101, 7449-7459		160
68	Reply [to Comment on A Distributed Hydrology-Vegetation Model for Complex Terrain by Mark S. Wigmosta, Lance W. Vail, and Dennis P. Lettenmaier]. <i>Water Resources Research</i> , 1996 , 32, 213-214	5.4	1
67	One-dimensional statistical dynamic representation of subgrid spatial variability of precipitation in the two-layer variable infiltration capacity model. <i>Journal of Geophysical Research</i> , 1996 , 101, 21403-21422		325
66	Effects of Subgrid Spatial Heterogeneity on GCM-Scale Land Surface Energy and Moisture Fluxes. <i>Journal of Climate</i> , 1996 , 9, 1339-1349	4.4	23
65	The Boreal Ecosystem Atmosphere Study (BOREAS): An Overview and Early Results from the 1994 Field Year. <i>Bulletin of the American Meteorological Society</i> , 1995 , 76, 1549-1577	6.1	420
64	Modeling of Runoff and Streamflow at Regional to Global Scales 1995 , 297-316		1
63	Hydro-Climatological Trends in the Continental United States, 1948-88. <i>Journal of Climate</i> , 1994 , 7, 586-607	4.7	510

62	A simple hydrologically based model of land surface water and energy fluxes for general circulation models. <i>Journal of Geophysical Research</i> , 1994 , 99, 14415		2485
61	Dynamic modeling of orographically induced precipitation. <i>Reviews of Geophysics</i> , 1994 , 32, 265	23.1	163
60	A distributed hydrology-vegetation model for complex terrain. <i>Water Resources Research</i> , 1994 , 30, 1665-1679	5.1	871
59	Sensitivity of a GCM Simulation of Global Climate to the Representation of Land-Surface Hydrology. <i>Journal of Climate</i> , 1994 , 7, 1218-1239	4.4	67
58	Incorporation of an Evaporative Cooling Scheme into a Dynamic Model of Orographic Precipitation. <i>Monthly Weather Review</i> , 1994 , 122, 2777-2783	2.4	12
57	Applications of Stochastic Modeling in Climate Change Impact Assessment. <i>Water Science and Technology Library</i> , 1994 , 3-17	0.3	
56	A stochastic approach for assessing the effect of changes in synoptic circulation patterns on gauge precipitation. <i>Water Resources Research</i> , 1993 , 29, 3303-3315	5.4	52
55	Dynamic Modeling of the Spatial Distribution of Precipitation in Remote Mountainous Areas. <i>Monthly Weather Review</i> , 1993 , 121, 1195-1214	2.4	76
54	A land-surface hydrology parameterization with subgrid variability for general circulation models. <i>Journal of Geophysical Research</i> , 1992 , 97, 2717		403
53	A hierarchical stochastic model of large-scale atmospheric circulation patterns and multiple station daily precipitation. <i>Journal of Geophysical Research</i> , 1992 , 97, 2791		66
52	Simulation of daily precipitation in the Pacific Northwest using a weather classification scheme. <i>Surveys in Geophysics</i> , 1991 , 12, 127-142	7.6	15
51	Climatic Sensitivity of California Water Resources. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1991 , 117, 108-125	2.8	58
50	Hydrologic processes in global climate change. <i>Eos</i> , 1991 , 72, 114-114	1.5	1
49	Trends in stream quality in the continental United States, 1978-1987. <i>Water Resources Research</i> , 1991 , 27, 327-339	5.4	73
48	A daily hydroclimatological data set for the continental United States. <i>Water Resources Research</i> , 1991 , 27, 1657-1663	5.4	71
47	Simulation of Daily Precipitation in the Pacific Northwest Using a Weather Classification Scheme 1991 , 127-142		4
46	A comparison of regional flood frequency estimation methods using a resampling method. <i>Water Resources Research</i> , 1990 , 26, 415-424	5.4	62
45	Operating the Seattle Water System During the 1987 Drought. <i>Journal - American Water Works Association</i> , 1990 , 82, 55-60	0.5	4

44	Hydrologic sensitivities of the Sacramento-San Joaquin River Basin, California, to global warming. <i>Water Resources Research</i> , 1990 , 26, 69-86	5.4	265
43	Closure to "Initiative for Risk-Based Flood Design" by David R. Dawdy and Dennis P. Lettenmaier (August, 1987, Vol. 113, No. 8). <i>Journal of Hydraulic Engineering</i> , 1989 , 115, 421-422	1.8	
42	Network design factors for assessing temporal variability in ground-water quality. <i>Environmental Monitoring and Assessment</i> , 1989 , 12, 149-79	3.1	10
41	Risk-Based Selection of Monitoring Wells for Assessing Agricultural Chemical Contamination of Ground Water. <i>Ground Water Monitoring and Remediation</i> , 1989 , 9, 98-108	1.4	1
40	MULTIVARIATE NONPARAMETRIC TESTS FOR TREND IN WATER QUALITY ¹ . <i>Journal of the American Water Resources Association</i> , 1988 , 24, 505-512	2.1	75
39	Initiative for Risk-Based Flood Design. <i>Journal of Hydraulic Engineering</i> , 1987 , 113, 1041-1051	1.8	25
38	Effect of regional heterogeneity on flood frequency estimation. <i>Water Resources Research</i> , 1987 , 23, 313-323	5.4	148
37	An evaluation of data requirements for groundwater contaminant transport modeling. <i>Water Resources Research</i> , 1987 , 23, 408-424	5.4	20
36	A Markov Renewal Model for rainfall occurrences. <i>Water Resources Research</i> , 1987 , 23, 875-884	5.4	94
35	Model complexity and data worth: An assessment of changes in the global carbon budget. <i>Ecological Modelling</i> , 1987 , 39, 201-226	3	8
34	by James W. Male and Richard R. Noss ¹ "Consolidation of a Stream Quality Monitoring Network". <i>Journal of the American Water Resources Association</i> , 1986 , 22, 1053-1053	2.1	2
33	Closure to "Limitations on Seasonal Snowmelt Forecast Accuracy" by Dennis P. Lettenmaier (July, 1984). <i>Journal of Water Resources Planning and Management - ASCE</i> , 1986 , 112, 295-298	2.8	
32	Data acquisition. Cost-effective methods for obtaining data on water quality. <i>Environmental Science & Technology</i> , 1986 , 20, 545-51	10.3	15
31	Stochastic Modeling of the Space-Time Structure of Atmospheric Chemical Deposition. <i>Water Resources Research</i> , 1986 , 22, 165-179	5.4	28
30	Continuous-Time Versus Discrete-Time Point Process Models for Rainfall Occurrence Series. <i>Water Resources Research</i> , 1986 , 22, 531-542	5.4	23
29	Optimal design of biological sampling programs using the analysis of variance. <i>Estuarine, Coastal and Shelf Science</i> , 1986 , 22, 637-656	2.9	39
28	Space-Time Correlation and Its Effects on Methods for Detecting Aquatic Ecological Change. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1985 , 42, 1391-1400	2.4	26
27	Multisite ARMA(1,1) and Disaggregation Models for Annual Streamflow Generation. <i>Water Resources Research</i> , 1985 , 21, 497-509	5.4	52

26	Testing Flood Frequency Estimation Methods Using a Regional Flood Generation Model. <i>Water Resources Research</i> , 1985 , 21, 1903-1914	5.4	68
25	A nonlinear time-variant constrained model for rainfall-runoff. <i>Journal of Hydrology</i> , 1985 , 77, 1-18	6	3
24	Limitations on Seasonal Snowmelt Forecast Accuracy. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1984 , 110, 255-269	2.8	5
23	Synthetic Streamflow Forecast Generation. <i>Journal of Hydraulic Engineering</i> , 1984 , 110, 277-289	1.8	19
22	CONSOLIDATION OF A STREAM QUALITY MONITORING NETWORK ¹ . <i>Journal of the American Water Resources Association</i> , 1984 , 20, 473-481	2.1	25
21	The use of screening models in determining water supply reliability. <i>Civil Engineering and Environmental Systems</i> , 1983 , 1, 15-22		4
20	Closure to Gumbel's Extreme Value I Distribution: a New Look [by Dennis P. Lettenmaier and Stephen J. Burges (April, 1982)]. <i>Journal of Hydraulic Engineering</i> , 1983 , 109, 649-649	1.8	
19	Cyclic Storage: A Preliminary Assessment. <i>Ground Water</i> , 1982 , 20, 278-288	2.4	11
18	Data requirements for kriging: Estimation and network design. <i>Water Resources Research</i> , 1981 , 17, 1641-1650	5.1	96
17	Intervention analysis with missing data. <i>Water Resources Research</i> , 1980 , 16, 159-171	5.4	13
16	Correction for bias in estimation of the standard deviation and coefficient of skewness of the log Pearson 3 distribution. <i>Water Resources Research</i> , 1980 , 16, 762-766	5.4	12
15	DISCUSSION by David L. Egar, A. L. Wilson, and R. K. Aylesworth ¹ Design Considerations for Ambient Stream Quality Monitoring ² . <i>Journal of the American Water Resources Association</i> , 1979 , 15, 1785-1786	2.1	1
14	Dimensionality problems in water quality network design. <i>Water Resources Research</i> , 1979 , 15, 1692-1709	9.4	16
13	USE OF FIRST-ORDER ANALYSIS IN ESTIMATING MASS BALANCE ERRORS AND PLANNING SAMPLING ACTIVITIES 1979 , 79-104		3
12	Assessment of environmental impacts part one: Intervention analysis. <i>Environmental Management</i> , 1978 , 2, 529-535	3.1	13
11	Assessment of environmental impacts part two: Data collection. <i>Environmental Management</i> , 1978 , 2, 537-554	3.1	18
10	On the design of Hydrologic Data Networks. <i>Eos</i> , 1978 , 59, 772	1.5	12
9	Climate change: Detection and its impact on hydrologic design. <i>Water Resources Research</i> , 1978 , 14, 679-687	5.1	34

8	Operational assessment of hydrologic models of long-term persistence. <i>Water Resources Research</i> , 1977 , 13, 113-124	5.4	37
7	An operational approach to preserving skew in hydrologic models of long-term persistence. <i>Water Resources Research</i> , 1977 , 13, 281-290	5.4	23
6	Reply to DISCUSSION by Andras Szollosi-Nagy ¹ . <i>Journal of the American Water Resources Association</i> , 1977 , 13, 1289-1292	2.1	
5	Detection of trends in water quality data from records with dependent observations. <i>Water Resources Research</i> , 1976 , 12, 1037-1046	5.4	214
4	USE OF STATE ESTIMATION TECHNIQUES IN WATER RESOURCE SYSTEM MODELING ¹ . <i>Journal of the American Water Resources Association</i> , 1976 , 12, 83-99	2.1	20
3	PROBABILISTIC METHODS IN STREAM QUALITY MANAGEMENT ¹ . <i>Journal of the American Water Resources Association</i> , 1975 , 11, 115-130	2.1	89
2	Properties of the three-parameter log normal probability distribution. <i>Water Resources Research</i> , 1975 , 11, 229-235	5.4	27
1	The INTENSE project: using observations and models to understand the past, present and future of sub-daily rainfall extremes. <i>Advances in Science and Research</i> , 15 , 117-126		44