

Andrew W Wood

List of Publications by Year in descending order

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98
papers

11,713
citations

44069

48
h-index

51608

86
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124
all docs

124
docs citations

124
times ranked

9256
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrologic Model Sensitivity to Temporal Aggregation of Meteorological Forcing Data: A Case Study for the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2022, 23, 167-183.	1.9	4
2	Improving station-based ensemble surface meteorological analyses using numerical weather prediction: A case study of the Oroville Dam crisis precipitation event. <i>Journal of Hydrometeorology</i> , 2022, , .	1.9	1
3	Ensemble Dressing of Meteorological Fields: Using Spatial Regression to Estimate Uncertainty in Deterministic Gridded Meteorological Datasets. <i>Journal of Hydrometeorology</i> , 2022, 23, 1525-1543.	1.9	3
4	Flood spatial coherence, triggers, and performance in hydrological simulations: large-sample evaluation of four streamflow-calibrated models. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 105-119.	4.9	16
5	Increasing importance of temperature as a contributor to the spatial extent of streamflow drought. <i>Environmental Research Letters</i> , 2021, 16, 024038.	5.2	30
6	Space-time dependence of compound hot-dry events in the United States: assessment using a multi-site multi-variable weather generator. <i>Earth System Dynamics</i> , 2021, 12, 621-634.	7.1	13
7	EMDNA: an Ensemble Meteorological Dataset for North America. <i>Earth System Science Data</i> , 2021, 13, 3337-3362.	9.9	22
8	Generating Ensemble Streamflow Forecasts: A Review of Methods and Approaches Over the Past 40 Years. <i>Water Resources Research</i> , 2021, 57, e2020WR028392.	4.2	59
9	Potential in improving monthly streamflow forecasting through variational assimilation of observed streamflow. <i>Journal of Hydrology</i> , 2021, 600, 126559.	5.4	9
10	Leveraging ensemble meteorological forcing data to improve parameter estimation of hydrologic models. <i>Hydrological Processes</i> , 2021, 35, e14410.	2.6	5
11	Enhancing Ensemble Seasonal Streamflow Forecasts in the Upper Colorado River Basin Using Multi-Model Climate Forecasts. <i>Journal of the American Water Resources Association</i> , 2021, 57, 906-922.	2.4	6
12	Probabilistic Spatial Meteorological Estimates for Alaska and the Yukon. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032696.	3.3	11
13	Invigorating Hydrological Research Through Journal Publications. <i>Water Resources Research</i> , 2020, 56, .	4.2	5
14	Spatial Dependence of Floods Shaped by Spatiotemporal Variations in Meteorological and Land-Surface Processes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088000.	4.0	40
15	Ensemble flood forecasting: Current status and future opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2020, 7, e1432.	6.5	96
16	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020, 10, 191-199.	18.8	210
17	Application of Postprocessing to Watershed-Scale Subseasonal Climate Forecasts over the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2020, 21, 971-987.	1.9	7
18	SCDNA: a serially complete precipitation and temperature dataset for North America from 1979 to 2018. <i>Earth System Science Data</i> , 2020, 12, 2381-2409.	9.9	35

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19	Future streamflow regime changes in the United States: assessment using functional classification. Hydrology and Earth System Sciences, 2020, 24, 3951-3966.	4.9	50
20	On the choice of calibration metrics for "high-flow" estimation using hydrologic models. Hydrology and Earth System Sciences, 2019, 23, 2601-2614.	4.9	110
21	Developing Subseasonal to Seasonal Climate Forecast Products for Hydrology and Water Management. Journal of the American Water Resources Association, 2019, 55, 1024-1037.	2.4	18
22	Benchmark decadal forecast skill for terrestrial water storage estimated by an elasticity framework. Nature Communications, 2019, 10, 1237.	12.8	13
23	Diagnostic Evaluation of Large-Domain Hydrologic Models Calibrated Across the Contiguous United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13991-14007.	3.3	29
24	The potential to reduce uncertainty in regional runoff projections from climate models. Nature Climate Change, 2019, 9, 926-933.	18.8	75
25	Motivation and Overview of Hydrological Ensemble Post-processing. , 2019, , 783-793.		2
26	Seasonal Ensemble Forecast Post-processing. , 2019, , 819-845.		1
27	Seasonal Ensemble Forecast Post-processing. , 2019, , 1-27.		1
28	Motivation and Overview of Hydrological Ensemble Post-processing. , 2019, , 1-11.		1
29	Adjusting Flood Peak Frequency Changes to Account for Climate Change Impacts in the Western United States. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	23
30	100 Years of Progress in Hydrology. Meteorological Monographs, 2018, 59, 25.1-25.51.	5.0	16
31	Joint editorial: Invigorating hydrological research through journal publications. Hydrology and Earth System Sciences, 2018, 22, 5735-5739.	4.9	3
32	DOs and DON'Ts for using climate change information for water resource planning and management: guidelines for study design. Climate Services, 2018, 12, 1-13.	2.5	21
33	Motivation and Overview of Hydrological Ensemble Post-processing. , 2018, , 1-11.		0
34	Motivation and Overview of Hydrological Ensemble Post-processing. , 2018, , 1-10.		2
35	Seasonal Ensemble Forecast Post-processing. , 2018, , 1-27.		0
36	How Suitable is Quantile Mapping For Postprocessing GCM Precipitation Forecasts?. Journal of Climate, 2017, 30, 3185-3196.	3.2	135

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37	An Efficient Approach for Estimating Streamflow Forecast Skill Elasticity. <i>Journal of Hydrometeorology</i> , 2017, 18, 1715-1729.	1.9	22
38	Benchmarking of a Physically Based Hydrologic Model. <i>Journal of Hydrometeorology</i> , 2017, 18, 2215-2225.	1.9	79
39	Assessing recent declines in Upper Rio Grande runoff efficiency from a paleoclimate perspective. <i>Geophysical Research Letters</i> , 2017, 44, 4124-4133.	4.0	57
40	Towards seamless large-domain parameter estimation for hydrologic models. <i>Water Resources Research</i> , 2017, 53, 8020-8040.	4.2	108
41	Mitigating the Impacts of Climate Nonstationarity on Seasonal Streamflow Predictability in the U.S. Southwest. <i>Geophysical Research Letters</i> , 2017, 44, 12,208.	4.0	37
42	An intercomparison of approaches for improving operational seasonal streamflow forecasts. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3915-3935.	4.9	49
43	Climate change impacts on flood risk and asset damages within mapped 100-year floodplains of the contiguous United States. <i>Natural Hazards and Earth System Sciences</i> , 2017, 17, 2199-2211.	3.6	53
44	Evaluation of snow data assimilation using the ensemble Kalman filter for seasonal streamflow prediction in the western United States. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 635-650.	4.9	52
45	The evolution of process-based hydrologic models: historical challenges and the collective quest for physical realism. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 3427-3440.	4.9	177
46	Research to Advance Drought Monitoring and Prediction Capabilities. <i>Drought and Water Crises</i> , 2017, , 127-140.	0.1	2
47	Automation and human expertise in operational river forecasting. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 692-705.	6.5	24
48	The Evaporative Demand Drought Index. Part I: Linking Drought Evolution to Variations in Evaporative Demand. <i>Journal of Hydrometeorology</i> , 2016, 17, 1745-1761.	1.9	209
49	A hybrid statistical-dynamical framework for meteorological drought prediction: Application to the southwestern United States. <i>Water Resources Research</i> , 2016, 52, 5095-5110.	4.2	53
50	Quantifying Streamflow Forecast Skill Elasticity to Initial Condition and Climate Prediction Skill. <i>Journal of Hydrometeorology</i> , 2016, 17, 651-668.	1.9	70
51	Characterizing Uncertainty of the Hydrologic Impacts of Climate Change. <i>Current Climate Change Reports</i> , 2016, 2, 55-64.	8.6	159
52	The Evaporative Demand Drought Index. Part II: CONUS-Wide Assessment against Common Drought Indicators. <i>Journal of Hydrometeorology</i> , 2016, 17, 1763-1779.	1.9	113
53	Projected wetland densities under climate change: habitat loss but little geographic shift in conservation strategy. <i>Ecological Applications</i> , 2016, 26, 1677-1692.	3.8	57
54	An Experiment on Risk-Based Decision-Making in Water Management Using Monthly Probabilistic Forecasts. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 541-551.	3.3	20

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55	Development of a large-sample watershed-scale hydrometeorological data set for the contiguous USA: data set characteristics and assessment of regional variability in hydrologic model performance. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 209-223.	4.9	310
56	A unified approach for process-based hydrologic modeling: 2. Model implementation and case studies. <i>Water Resources Research</i> , 2015, 51, 2515-2542.	4.2	173
57	Prospects for Advancing Drought Understanding, Monitoring, and Prediction. <i>Journal of Hydrometeorology</i> , 2015, 16, 1636-1657.	1.9	72
58	A unified approach for process-based hydrologic modeling: 1. Modeling concept. <i>Water Resources Research</i> , 2015, 51, 2498-2514.	4.2	354
59	The Great Colorado Flood of September 2013. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1461-1487.	3.3	175
60	Gridded Ensemble Precipitation and Temperature Estimates for the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2015, 16, 2481-2500.	1.9	124
61	Value of Forecasts in Reservoir Operations Management. , 2014, , .		1
62	Improving Forecasts for Water Management. <i>Eos</i> , 2014, 95, 3-3.	0.1	3
63	Challenges of Operational River Forecasting. <i>Journal of Hydrometeorology</i> , 2014, 15, 1692-1707.	1.9	127
64	Western U.S. Water Supply Forecasting: A Tradition Evolves. <i>Eos</i> , 2014, 95, 28-29.	0.1	17
65	Informing Hydrometric Network Design for Statistical Seasonal Streamflow Forecasts. <i>Journal of Hydrometeorology</i> , 2013, 14, 1587-1604.	1.9	7
66	Planning for an Uncertain Future: Climate Change Sensitivity Assessment toward Adaptation Planning for Public Water Supply. <i>Earth Interactions</i> , 2013, 17, 1-26.	1.5	31
67	Advancing Drought Understanding, Monitoring, and Prediction. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, ES186-ES188.	3.3	19
68	What Drives the Variability of Evaporative Demand across the Conterminous United States?. <i>Journal of Hydrometeorology</i> , 2012, 13, 1195-1214.	1.9	60
69	Statistical applications of physically based hydrologic models to seasonal streamflow forecasts. <i>Water Resources Research</i> , 2011, 47, .	4.2	67
70	Real-Time Precipitation Estimation Based on Index Station Percentiles*. <i>Journal of Hydrometeorology</i> , 2009, 10, 266-277.	1.9	20
71	Detection and Attribution of Streamflow Timing Changes to Climate Change in the Western United States. <i>Journal of Climate</i> , 2009, 22, 3838-3855.	3.2	260
72	Use of a standardized runoff index for characterizing hydrologic drought. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	825

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73	Attribution of Declining Western U.S. Snowpack to Human Effects. <i>Journal of Climate</i> , 2008, 21, 6425-6444.	3.2	217
74	An ensemble approach for attribution of hydrologic prediction uncertainty. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	178
75	Evaluation of Precipitation Products for Global Hydrological Prediction. <i>Journal of Hydrometeorology</i> , 2008, 9, 388-407.	1.9	67
76	Correcting Errors in Streamflow Forecast Ensemble Mean and Spread. <i>Journal of Hydrometeorology</i> , 2008, 9, 132-148.	1.9	142
77	How Essential is Hydrologic Model Calibration to Seasonal Streamflow Forecasting?. <i>Journal of Hydrometeorology</i> , 2008, 9, 1350-1363.	1.9	111
78	Human-Induced Changes in the Hydrology of the Western United States. <i>Science</i> , 2008, 319, 1080-1083.	12.6	956
79	Detection and Attribution of Temperature Changes in the Mountainous Western United States. <i>Journal of Climate</i> , 2008, 21, 6404-6424.	3.2	109
80	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.	2.6	55
81	The NAME 2004 Field Campaign and Modeling Strategy. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 79-94.	3.3	98
82	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.	3.3	206
83	Twentieth-Century Drought in the Conterminous United States. <i>Journal of Hydrometeorology</i> , 2005, 6, 985-1001.	1.9	457
84	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, .	3.3	84
85	Evaluation of Hydrologically Relevant PCM Climate Variables and Large-Scale Variability over the Continental U.S.. <i>Climatic Change</i> , 2004, 62, 45-74.	3.6	12
86	The Effects of Climate Change on the Hydrology and Water Resources of the Colorado River Basin. <i>Climatic Change</i> , 2004, 62, 337-363.	3.6	825
87	Hydrologic Implications of Dynamical and Statistical Approaches to Downscaling Climate Model Outputs. <i>Climatic Change</i> , 2004, 62, 189-216.	3.6	1,503
88	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.	3.6	203
89	Mitigating the Effects of Climate Change on the Water Resources of the Columbia River Basin. <i>Climatic Change</i> , 2004, 62, 233-256.	3.6	314
90	Mapping the spatial distribution and time evolution of snow water equivalent with passive microwave measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 612-621.	6.3	13

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91	Long-range experimental hydrologic forecasting for the eastern United States. Journal of Geophysical Research, 2002, 107, ACL 6-1.	3.3	772
92	Passive microwave remote sensing of snow constrained by hydrological simulations. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1744-1756.	6.3	30
93	The Effects of Climate Change on Water Management Strategies and Demands in the Central Valley of California. , 2001, , 1.		1
94	Title is missing!. Climatic Change, 2000, 44, 539-541.	3.6	0
95	Water Resources Implications of Global Warming: A U.S. Regional Perspective. Climatic Change, 1999, 43, 537-579.	3.6	225
96	Conducting a Virtual Flood for Devils Lake, North Dakota. , 1999, , 1.		0
97	Assessing Climate Change Implications for Water Resources Planning. Climatic Change, 1997, 37, 203-228.	3.6	54
98	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 0, 380, 3-8.	1.0	0