

Justin Sheffield

List of Publications by Year in descending order

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190
papers

31,492
citations

6442

81
h-index

4731

170
g-index

241
all docs

241
docs citations

241
times ranked

29037
citing authors

#	ARTICLE	IF	CITATIONS
1	Global warming and changes in drought. <i>Nature Climate Change</i> , 2014, 4, 17-22.	14.3	2,389
2	Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , 2010, 467, 951-954.	36.2	1,821
3	Development of a 50-Year High-Resolution Global Dataset of Meteorological Forcings for Land Surface Modeling. <i>Journal of Climate</i> , 2006, 19, 3088-3111.	4.2	1,623
4	Little change in global drought over the past 60 years. <i>Nature</i> , 2012, 491, 435-438.	36.2	1,586
5	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, .	3.3	1,020
6	Projected changes in drought occurrence under future global warming from multi-model, multi-scenario, IPCC AR4 simulations. <i>Climate Dynamics</i> , 2008, 31, 79-105.	3.8	953
7	Past and future changes in climate and hydrological indicators in the US Northeast. <i>Climate Dynamics</i> , 2007, 28, 381-407.	3.8	705
8	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2011, 47, .	4.2	660
9	Global assessment of trends in wetting and drying over land. <i>Nature Geoscience</i> , 2014, 7, 716-721.	11.9	642
10	Bias correction of monthly precipitation and temperature fields from Intergovernmental Panel on Climate Change AR4 models using equidistant quantile matching. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	605
11	Drought in the Anthropocene. <i>Nature Geoscience</i> , 2016, 9, 89-91.	11.9	586
12	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, .	3.3	564
13	Global Trends and Variability in Soil Moisture and Drought Characteristics, 1950-2000, from Observation-Driven Simulations of the Terrestrial Hydrologic Cycle. <i>Journal of Climate</i> , 2008, 21, 432-458.	4.2	543
14	Land information system: An interoperable framework for high resolution land surface modeling. <i>Environmental Modelling and Software</i> , 2006, 21, 1402-1415.	4.6	539
15	Anthropogenic warming exacerbates European soil moisture droughts. <i>Nature Climate Change</i> , 2018, 8, 421-426.	14.3	475
16	Broad threat to humanity from cumulative climate hazards intensified by greenhouse gas emissions. <i>Nature Climate Change</i> , 2018, 8, 1062-1071.	14.3	424
17	Soil Moisture Drought in China, 1950-2006. <i>Journal of Climate</i> , 2011, 24, 3257-3271.	4.2	404
18	A Drought Monitoring and Forecasting System for Sub-Sahara African Water Resources and Food Security. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 861-882.	5.5	377

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19	Real-time and retrospective forcing in the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	375
20	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015, 8, 284-289.	11.9	356
21	Multifaceted characteristics of dryland aridity changes in a warming world. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 232-250.	20.6	339
22	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.	4.2	338
23	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	320
24	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 3707-3720.	5.0	320
25	Characteristics of global and regional drought, 1950-2000: Analysis of soil moisture data from offline simulation of the terrestrial hydrologic cycle. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	314
26	Global intercomparison of 12 land surface heat flux estimates. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	314
27	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3631-3650.	5.0	312
28	A simulated soil moisture based drought analysis for the United States. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	296
29	Satellite Remote Sensing for Water Resources Management: Potential for Supporting Sustainable Development in Data-Poor Regions. <i>Water Resources Research</i> , 2018, 54, 9724-9758.	4.2	287
30	CMIP5 Climate Model Analyses: Climate Extremes in the United States. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 571-583.	5.5	274
31	Anthropogenic shift towards higher risk of flash drought over China. <i>Nature Communications</i> , 2019, 10, 4661.	13.2	274
32	North American Climate in CMIP5 Experiments. Part I: Evaluation of Historical Simulations of Continental and Regional Climatology. <i>Journal of Climate</i> , 2013, 26, 9209-9245.	4.2	246
33	Continental-scale water and energy flux analysis and validation for North American Land Data Assimilation System project phase 2 (NLDAS-2): 2. Validation of model-simulated streamflow. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	242
34	The Observed State of the Water Cycle in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015, 28, 8289-8318.	4.2	241
35	North American Climate in CMIP5 Experiments: Part III: Assessment of Twenty-First-Century Projections*. <i>Journal of Climate</i> , 2014, 27, 2230-2270.	4.2	234
36	Divergent surface and total soil moisture projections under global warming. <i>Geophysical Research Letters</i> , 2017, 44, 236-244.	4.0	221

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37	A global transition to flash droughts under climate change. <i>Science</i> , 2023, 380, 187-191.	20.9	200
38	Surface radiation budgets in support of the GEWEX Continentalâ€šScale International Project (GCIP) and the GEWEX Americas Prediction Project (GAPP), including the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	199
39	Climate Change and Drought: the Soil Moisture Perspective. <i>Current Climate Change Reports</i> , 2018, 4, 180-191.	9.2	199
40	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). <i>Geoscientific Model Development</i> , 2015, 8, 261-277.	3.7	198
41	Multisource Estimation of Long-Term Terrestrial Water Budget for Major Global River Basins. <i>Journal of Climate</i> , 2012, 25, 3191-3206.	4.2	196
42	Closing the terrestrial water budget from satellite remote sensing. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	195
43	High-performance Earth system modeling with NASA/GSFCâ€™s Land Information System. <i>Innovations in Systems and Software Engineering</i> , 2007, 3, 157-165.	2.2	191
44	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 17-40.	5.0	175
45	Evaluation of multi-model simulated soil moisture in NLDAS-2. <i>Journal of Hydrology</i> , 2014, 512, 107-125.	5.6	170
46	Spatial downscaling of precipitation using adaptable random forests. <i>Water Resources Research</i> , 2016, 52, 8217-8237.	4.2	169
47	Detection of Intensification in Global- and Continental-Scale Hydrological Cycles: Temporal Scale of Evaluation. <i>Journal of Climate</i> , 2003, 16, 535-547.	4.2	168
48	The Observed State of the Energy Budget in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015, 28, 8319-8346.	4.2	165
49	Anthropogenic influence on multidecadal changes in reconstructed global evapotranspiration. <i>Nature Climate Change</i> , 2013, 3, 59-62.	14.3	163
50	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project â€œ aims, setup and expected outcome. <i>Geoscientific Model Development</i> , 2016, 9, 2809-2832.	3.7	160
51	Evaluation of the North American Land Data Assimilation System over the southern Great Plains during the warm season. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	158
52	Reconciling the global terrestrial water budget using satellite remote sensing. <i>Remote Sensing of Environment</i> , 2011, 115, 1850-1865.	11.1	157
53	An efficient calibration method for continentalâ€šscale land surface modeling. <i>Water Resources Research</i> , 2008, 44, .	4.2	155
54	Snow process modeling in the North American Land Data Assimilation System (NLDAS): 2. Evaluation of model simulated snow water equivalent. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	154

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55	Multi-model, multi-sensor estimates of global evapotranspiration: climatology, uncertainties and trends. <i>Hydrological Processes</i> , 2011, 25, 3993-4010.	2.6	152
56	Climate change alters low flows in Europe under global warming of 1.5, 2, and 3°C. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1017-1032.	5.0	151
57	Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 776-785.	5.5	148
58	Streamflow and water balance intercomparisons of four land surface models in the North American Land Data Assimilation System project. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	144
59	Spatiotemporal dynamics of global drought. <i>Geophysical Research Letters</i> , 2017, 44, 2254-2263.	4.0	138
60	Validation of the North American Land Data Assimilation System (NLDAS) retrospective forcing over the southern Great Plains. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	137
61	Evaluation of the Tropical Rainfall Measuring Mission Multi-Satellite Precipitation Analysis (TMPA) for assessment of large-scale meteorological drought. <i>Remote Sensing of Environment</i> , 2015, 159, 181-193.	11.1	129
62	North American Climate in CMIP5 Experiments. Part II: Evaluation of Historical Simulations of Intraseasonal to Decadal Variability. <i>Journal of Climate</i> , 2013, 26, 9247-9290.	4.2	128
63	miR-21 mediates hematopoietic suppression in MDS by activating TGF- β 2 signaling. <i>Blood</i> , 2013, 121, 2875-2881.	1.4	127
64	Terrestrial hydrological controls on land surface phenology of African savannas and woodlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1652-1669.	3.0	123
65	Evaluation of historical and future simulations of precipitation and temperature in central Africa from CMIP5 climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 130-152.	3.3	123
66	Hydrological consistency using multi-sensor remote sensing data for water and energy cycle studies. <i>Remote Sensing of Environment</i> , 2008, 112, 430-444.	11.1	111
67	Intensification of hydrological drought in California by human water management. <i>Geophysical Research Letters</i> , 2017, 44, 1777-1785.	4.0	111
68	Global analysis of seasonal streamflow predictability using an ensemble prediction system and observations from 6192 small catchments worldwide. <i>Water Resources Research</i> , 2013, 49, 2729-2746.	4.2	110
69	Lagged Compound Occurrence of Droughts and Pluvials Globally Over the Past Seven Decades. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087924.	4.0	109
70	Drought. , 0, , .		108
71	Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. <i>Environmental Research Letters</i> , 2018, 13, 014003.	5.3	107
72	Shifts in tree functional composition amplify the response of forest biomass to climate. <i>Nature</i> , 2018, 556, 99-102.	36.2	105

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73	Bias Correction of Global High-Resolution Precipitation Climatologies Using Streamflow Observations from 9372 Catchments. <i>Journal of Climate</i> , 2020, 33, 1299-1315.	4.2	105
74	Land surface model spin-up behavior in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	103
75	Snow process modeling in the North American Land Data Assimilation System (NLDAS): 1. Evaluation of model-simulated snow cover extent. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	97
76	Quantifying uncertainty in a remote sensing-based estimate of evapotranspiration over continental USA. <i>International Journal of Remote Sensing</i> , 2010, 31, 3821-3865.	3.0	97
77	A Climate Data Record (CDR) for the global terrestrial water budget: 1984–2010. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 241-263.	5.0	97
78	Seasonal Soil Moisture Drought Prediction over Europe Using the North American Multi-Model Ensemble (NMME). <i>Journal of Hydrometeorology</i> , 2015, 16, 2329-2344.	3.6	96
79	Global Evaluation of the ISBA-TRIP Continental Hydrological System. Part I: Comparison to GRACE Terrestrial Water Storage Estimates and In Situ River Discharges. <i>Journal of Hydrometeorology</i> , 2010, 11, 583-600.	3.6	93
80	On the sources of global land surface hydrologic predictability. <i>Hydrology and Earth System Sciences</i> , 2013, 17, 2781-2796.	5.0	93
81	Impacts of recent drought and warm years on water resources and electricity supply worldwide. <i>Environmental Research Letters</i> , 2016, 11, 124021.	5.3	91
82	An intercomparison of soil moisture fields in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	88
83	Seasonal Forecasting of Global Hydrologic Extremes: System Development and Evaluation over GEWEX Basins. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1895-1912.	5.5	87
84	Deforestation-induced warming over tropical mountain regions regulated by elevation. <i>Nature Geoscience</i> , 2021, 14, 23-29.	11.9	85
85	A physically based approach for the estimation of root-zone soil moisture from surface measurements. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1199-1212.	5.0	82
86	Bias Correction of Historical and Future Simulations of Precipitation and Temperature for China from CMIP5 Models. <i>Journal of Hydrometeorology</i> , 2018, 19, 609-623.	3.6	78
87	Development of a High-Resolution Gridded Daily Meteorological Dataset over Sub-Saharan Africa: Spatial Analysis of Trends in Climate Extremes. <i>Journal of Climate</i> , 2014, 27, 5815-5835.	4.2	74
88	Integrated approaches to understanding and reducing drought impact on food security across scales. <i>Current Opinion in Environmental Sustainability</i> , 2019, 40, 43-54.	6.6	74
89	Probabilistic Seasonal Forecasting of African Drought by Dynamical Models. <i>Journal of Hydrometeorology</i> , 2013, 14, 1706-1720.	3.6	73
90	Application of USDM statistics in NLDAS-2: Optimal blended NLDAS drought index over the continental United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2947-2965.	3.3	71

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91	The impacts of future climate and carbon dioxide changes on the average and variability of US maize yields under two emission scenarios. <i>Environmental Research Letters</i> , 2015, 10, 045003.	5.3	71
92	Assessment of water budget for sixteen large drainage basins in Canada. <i>Journal of Hydrology</i> , 2014, 512, 1-15.	5.6	70
93	Contrasting Influences of Human Activities on Hydrological Drought Regimes Over China Based on High-Resolution Simulations. <i>Water Resources Research</i> , 2020, 56, e2019WR025843.	4.2	70
94	Reduced Moisture Transport Linked to Drought Propagation Across North America. <i>Geophysical Research Letters</i> , 2019, 46, 5243-5253.	4.0	69
95	Test of the SHETRAN technology for modelling the impact of reforestation on badlands runoff and sediment yield at Draix, France. <i>Journal of Hydrology</i> , 2000, 235, 44-62.	5.6	68
96	Combining hyper-resolution land surface modeling with SMAP brightness temperatures to obtain 30-m soil moisture estimates. <i>Remote Sensing of Environment</i> , 2020, 242, 111740.	11.1	67
97	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 2586-2614.	3.6	66
98	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> , 0, 15, 117-126.	0.9	65
99	Global Multimodel Analysis of Drought in Runoff for the Second Half of the Twentieth Century. <i>Journal of Hydrometeorology</i> , 2013, 14, 1535-1552.	3.6	61
100	Less reliable water availability in the 21st century climate projections. <i>Earth's Future</i> , 2014, 2, 152-160.	6.2	61
101	The Influence of Atlantic Tropical Cyclones on Drought over the Eastern United States (1980-2007). <i>Journal of Climate</i> , 2013, 26, 3067-3086.	4.2	59
102	Long-Term Regional Estimates of Evapotranspiration for Mexico Based on Downscaled ISCCP Data. <i>Journal of Hydrometeorology</i> , 2010, 11, 253-275.	3.6	58
103	A Prototype Global Drought Information System Based on Multiple Land Surface Models. <i>Journal of Hydrometeorology</i> , 2014, 15, 1661-1676.	3.6	57
104	Development and Evaluation of a Pan-European Multimodel Seasonal Hydrological Forecasting System. <i>Journal of Hydrometeorology</i> , 2019, 20, 99-115.	3.6	53
105	Correction of the High-Latitude Rain Day Anomaly in the NCEP-NCAR Reanalysis for Land Surface Hydrological Modeling. <i>Journal of Climate</i> , 2004, 17, 3814-3828.	4.2	52
106	Changes in drought risk over the contiguous United States (1901-2012): The influence of the Pacific and Atlantic Oceans. <i>Geophysical Research Letters</i> , 2014, 41, 5897-5903.	4.0	50
107	Early season prediction of within-field crop yield variability by assimilating CubeSat data into a crop model. <i>Agricultural and Forest Meteorology</i> , 2022, 313, 108736.	4.8	50
108	Soil Moisture-Evapotranspiration Coupling in CMIP5 Models: Relationship with Simulated Climate and Projections. <i>Journal of Climate</i> , 2018, 31, 4865-4878.	4.2	48

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109	Spatial validation of large-scale land surface models against monthly land surface temperature patterns using innovative performance metrics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5430-5452.	3.3	47
110	Nonstationarity of low flows and their timing in the eastern United States. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 633-649.	5.0	46
111	Depiction of drought over sub-Saharan Africa using reanalyses precipitation data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,555.	3.3	45
112	Climate change and dissolved organic carbon export to the Gulf of Maine. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2700-2716.	3.0	44
113	Long-term, non-anthropogenic groundwater storage changes simulated by three global-scale hydrological models. <i>Scientific Reports</i> , 2019, 9, 10746.	3.4	44
114	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.	3.7	43
115	A large-area, spatially continuous assessment of land cover map error and its impact on downstream analyses. <i>Global Change Biology</i> , 2018, 24, 322-337.	9.7	43
116	Evapotranspiration simulations in ISIMIP2a—Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. <i>Environmental Research Letters</i> , 2018, 13, 075001.	5.3	43
117	Determinants of the ratio of actual to potential evapotranspiration. <i>Global Change Biology</i> , 2019, 25, 1326-1343.	9.7	43
118	A global near-real-time soil moisture index monitor for food security using integrated SMOS and SMAP. <i>Remote Sensing of Environment</i> , 2020, 246, 111864.	11.1	43
119	Estimation of the Terrestrial Water Budget over Northern Eurasia through the Use of Multiple Data Sources. <i>Journal of Climate</i> , 2011, 24, 3272-3293.	4.2	42
120	Representation of Terrestrial Hydrology and Large-Scale Drought of the Continental United States from the North American Regional Reanalysis. <i>Journal of Hydrometeorology</i> , 2012, 13, 856-876.	3.6	42
121	Changes in the low flow regime over the eastern United States (1962–2011): variability, trends, and attributions. <i>Climatic Change</i> , 2016, 135, 639-653.	3.7	42
122	Solar and wind energy enhances drought resilience and groundwater sustainability. <i>Nature Communications</i> , 2019, 10, 4893.	13.2	41
123	Projected Seasonal Changes in Large-Scale Global Precipitation and Temperature Extremes Based on the CMIP5 Ensemble. <i>Journal of Climate</i> , 2020, 33, 5651-5671.	4.2	40
124	Continental Runoff into the Oceans (1950–2008). <i>Journal of Hydrometeorology</i> , 2015, 16, 1502-1520.	3.6	39
125	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. <i>Earth System Science Data</i> , 2020, 12, 1295-1320.	8.9	38
126	Connectivity between Eurasian snow cover extent and Canadian snow water equivalent and river discharge. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	37

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127	Uncertainties, Correlations, and Optimal Blends of Drought Indices from the NLDAS Multiple Land Surface Model Ensemble. <i>Journal of Hydrometeorology</i> , 2014, 15, 1636-1650.	3.6	37
128	Uncertainties in Future Projections of Summer Droughts and Heat Waves over the Contiguous United States. <i>Journal of Climate</i> , 2017, 30, 6225-6246.	4.2	37
129	SMAP-HydroBlocks, a 30-m satellite-based soil moisture dataset for the conterminous US. <i>Scientific Data</i> , 2021, 8, 264.	5.4	37
130	Farmer forecasts: Impacts of seasonal rainfall expectations on agricultural decision-making in Sub-Saharan Africa. <i>Climate Risk Management</i> , 2020, 30, 100247.	3.4	36
131	Assimilation of soil moisture and canopy cover data improves maize simulation using an under-calibrated crop model. <i>Agricultural Water Management</i> , 2021, 252, 106884.	5.7	36
132	A multiscale analysis of drought and pluvial mechanisms for the Southeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7348-7367.	3.3	34
133	Reconciling agriculture, carbon and biodiversity in a savannah transformation frontier. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150316.	4.2	34
134	Did a skillful prediction of sea surface temperatures help or hinder forecasting of the 2012 Midwestern US drought?. <i>Environmental Research Letters</i> , 2014, 9, 034005.	5.3	30
135	Cognitive Biases about Climate Variability in Smallholder Farming Systems in Zambia. <i>Weather, Climate, and Society</i> , 2019, 11, 369-383.	2.2	30
136	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, .	4.2	26
137	Validation of AIRS/AMSU water vapor and temperature data with in situ aircraft observations from the surface to UT/LS from 87°N to 67°S. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6816-6836.	3.3	26
138	Multimodel Analysis of Energy and Water Fluxes: Intercomparisons between Operational Analyses, a Land Surface Model, and Remote Sensing. <i>Journal of Hydrometeorology</i> , 2012, 13, 3-26.	3.6	24
139	Terrestrial Precipitation Analysis (TPA): A resource for characterizing long-term precipitation regimes and extremes. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1396-1401.	5.3	24
140	Field-scale soil moisture bridges the spatial-scale gap between drought monitoring and agricultural yields. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1827-1847.	5.0	23
141	Recent changes in cropland area and productivity indicate unsustainable cropland expansion in Malawi. <i>Environmental Research Letters</i> , 2021, 16, 084052.	5.3	23
142	Response of electricity sector air pollution emissions to drought conditions in the western United States. <i>Environmental Research Letters</i> , 2018, 13, 124032.	5.3	22
143	Satellite Flood Inundation Assessment and Forecast Using SMAP and Landsat. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 6707-6715.	4.9	22
144	The role of winter precipitation and temperature on northern Eurasian streamflow trends. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21

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145	Using a Gridded Global Dataset to Characterize Regional Hydroclimate in Central Chile. <i>Journal of Hydrometeorology</i> , 2013, 14, 251-265.	3.6	21
146	Historical effects of CO2 and climate trends on global crop water demand. <i>Nature Climate Change</i> , 2017, 7, 901-905.	14.3	21
147	Drivers of Variability in Atmospheric Evaporative Demand: Multiscale Spectral Analysis Based on Observations and Physically Based Modeling. <i>Water Resources Research</i> , 2018, 54, 3510-3529.	4.2	21
148	Crop-specific exposure to extreme temperature and moisture for the globe for the last half century. <i>Environmental Research Letters</i> , 2021, 16, 064006.	5.3	21
149	Confronting terrestrial biosphere models with forest inventory data. <i>Ecological Applications</i> , 2014, 24, 699-715.	3.9	20
150	Increased Drought and Pluvial Risk over California due to Changing Oceanic Conditions. <i>Journal of Climate</i> , 2016, 29, 8269-8279.	4.2	20
151	Streamflow prediction in "geopolitically ungauged" basins using satellite observations and regionalization at subcontinental scale. <i>Journal of Hydrology</i> , 2020, 588, 125016.	5.6	19
152	Increased flooded area and exposure in the White Volta river basin in Western Africa, identified from multi-source remote sensing data. <i>Scientific Reports</i> , 2022, 12, 3701.	3.4	19
153	Changing water availability during the African maize-growing season, 1979"2010. <i>Environmental Research Letters</i> , 2014, 9, 075005.	5.3	17
154	Comparing empirical and survey-based yield forecasts in a dryland agro-ecosystem. <i>Agricultural and Forest Meteorology</i> , 2018, 262, 147-156.	4.8	17
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