Justin Sheffield

List of Publications by Year
in descending order

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		8208	6024
185	29,489	78	165
papers	citations	h-index	g-index

218	218	218	26367
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Early season prediction of within-field crop yield variability by assimilating CubeSat data into a crop model. Agricultural and Forest Meteorology, 2022, 313, 108736.	1.9	40
2	Comparison of hydrological and vegetation remote sensing datasets as proxies for rainfed maize yield in Malawi. Agricultural Water Management, 2022, 262, 107375.	2.4	11
3	Performance of Stateâ€ofâ€theâ€Art C3S European Seasonal Climate Forecast Models for Mean and Extreme Precipitation Over Africa. Water Resources Research, 2022, 58, .	1.7	6
4	Increased flooded area and exposure in the White Volta river basin in Western Africa, identified from multi-source remote sensing data. Scientific Reports, 2022, 12, 3701.	1.6	12
5	Multi-variable assimilation into a modified AquaCrop model for improved maize simulation without management or crop phenology information. Agricultural Water Management, 2022, 266, 107576.	2.4	10
6	Maize Yield Estimation in Intercropped Smallholder Fields Using Satellite Data in Southern Malawi. Remote Sensing, 2022, 14, 2458.	1.8	8
7	Dynamic multi-dimensional identification of Yunnan droughts and its seasonal scale linkages to the El NiÃ±o-Southern Oscillation. Journal of Hydrology: Regional Studies, 2022, 42, 101128.	1.0	1
8	Variability and changes in hydrological drought in the Volta Basin, West Africa. Journal of Hydrology: Regional Studies, 2022, 42, 101143.	1.0	6
9	Deforestation-induced warming over tropical mountain regions regulated by elevation. Nature Geoscience, 2021, 14, 23-29.	5.4	73
10	Satellite Flood Inundation Assessment and Forecast Using SMAP and Landsat. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 6707-6715.	2.3	20
11	Evaluation of 18 satellite- and model-based soil moisture products using in situ measurements from 826 sensors. Hydrology and Earth System Sciences, 2021, 25, 17-40.	1.9	156
12	Multifaceted characteristics of dryland aridity changes in a warming world. Nature Reviews Earth & Environment, 2021, 2, 232-250.	12.2	281
13	Field-scale soil moisture bridges the spatial-scale gap between drought monitoring and agricultural yields. Hydrology and Earth System Sciences, 2021, 25, 1827-1847.	1.9	23
14	Reducing Solar Radiation Forcing Uncertainty and Its Impact on Surface Energy and Water Fluxes. Journal of Hydrometeorology, 2021, 22, 813-829.	0.7	2
15	Synergistic Satellite Assessment of Global Vegetation Health in Relation to ENSOâ€Induced Droughts and Pluvials. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006006.	1.3	4
16	Crop-specific exposure to extreme temperature and moisture for the globe for the last half century. Environmental Research Letters, 2021, 16, 064006.	2.2	18
17	Assimilation of soil moisture and canopy cover data improves maize simulation using an under-calibrated crop model. Agricultural Water Management, 2021, 252, 106884.	2.4	30
18	Assessment of <scp>CHADFDM</scp> satelliteâ€based input dataset for the groundwater recharge estimation in arid and data scarce regions. Hydrological Processes, 2021, 35, e14250.	1.1	2

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19	Global sensitivity analysis of crop yield and transpiration from the FAO-AquaCrop model for dryland environments. Field Crops Research, 2021, 269, 108182.	2.3	16
20	Recent changes in cropland area and productivity indicate unsustainable cropland expansion in Malawi. Environmental Research Letters, 2021, 16, 084052.	2.2	14
21	Exploring the Capability of Natural Flood Management Approaches in Groundwater-Dominated Chalk Streams. Water (Switzerland), 2021, 13, 2212.	1.2	4
22	Strengthening Flood and Drought Risk Management Tools for the Lake Chad Basin. , 2021, , 387-405.		2
23	SMAP-HydroBlocks, a 30-m satellite-based soil moisture dataset for the conterminous US. Scientific Data, 2021, 8, 264.	2.4	24
24	Bias Correction of Global High-Resolution Precipitation Climatologies Using Streamflow Observations from 9372 Catchments. Journal of Climate, 2020, 33, 1299-1315.	1.2	94
25	Farmer forecasts: Impacts of seasonal rainfall expectations on agricultural decision-making in Sub-Saharan Africa. Climate Risk Management, 2020, 30, 100247.	1.6	34
26	Lagged Compound Occurrence of Droughts and Pluvials Globally Over the Past Seven Decades. Geophysical Research Letters, 2020, 47, e2020GL087924.	1.5	84
27	A global near-real-time soil moisture index monitor for food security using integrated SMOS and SMAP. Remote Sensing of Environment, 2020, 246, 111864.	4.6	35
28	Identification of uncertainty sources in quasi-global discharge and inundation simulations using satellite-based precipitation products. Journal of Hydrology, 2020, 589, 125180.	2.3	9
29	The Optimal Multimodel Ensemble of Bias-Corrected CMIP5 Climate Models over China. Journal of Hydrometeorology, 2020, 21, 845-863.	0.7	19
30	Combining hyper-resolution land surface modeling with SMAP brightness temperatures to obtain 30-m soil moisture estimates. Remote Sensing of Environment, 2020, 242, 111740.	4.6	59
31	A Global Drought and Flood Catalogue from 1950 to 2016. Bulletin of the American Meteorological Society, 2020, 101, E508-E535.	1.7	98
32	Contrasting Influences of Human Activities on Hydrological Drought Regimes Over China Based on Highâ€Resolution Simulations. Water Resources Research, 2020, 56, e2019WR025843.	1.7	62
33	Streamflow prediction in â€œgeopolitically ungaugedâ€• basins using satellite observations and regionalization at subcontinental scale. Journal of Hydrology, 2020, 588, 125016.	2.3	16
34	Projected Seasonal Changes in Large-Scale Global Precipitation and Temperature Extremes Based on the CMIP5 Ensemble. Journal of Climate, 2020, 33, 5651-5671.	1.2	39
35	The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. Earth System Science Data, 2020, 12, 1295-1320.	3.7	33
36	The Global Drought and Flood Catalogue: A Complex Relation of Hydrology and Impact. Bulletin of the American Meteorological Society, 2020, 101, 519-522.	1.7	0

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37	Hydrological Forecasts and Projections for Improved Decision-Making in the Water Sector in Europe. Bulletin of the American Meteorological Society, 2019, 100, 2451-2472.	1.7	52
38	Long-term, non-anthropogenic groundwater storage changes simulated by three global-scale hydrological models. Scientific Reports, 2019, 9, 10746.	1.6	40
39	Integrated approaches to understanding and reducing drought impact on food security across scales. Current Opinion in Environmental Sustainability, 2019, 40, 43-54.	3.1	63
40	Anthropogenic shift towards higher risk of flash drought over China. Nature Communications, 2019, 10, 4661.	5.8	236
41	Solar and wind energy enhances drought resilience and groundwater sustainability. Nature Communications, 2019, 10, 4893.	5.8	39
42	Determinants of the ratio of actual to potential evapotranspiration. Global Change Biology, 2019, 25, 1326-1343.	4.2	39
43	Cognitive Biases about Climate Variability in Smallholder Farming Systems in Zambia. Weather, Climate, and Society, 2019, 11, 369-383.	0.5	29
44	Historic and Projected Changes in Coupling Between Soil Moisture and Evapotranspiration (ET) in CMIP5 Models Confounded by the Role of Different ET Components. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5791-5806.	1.2	15
45	Reduced Moisture Transport Linked to Drought Propagation Across North America. Geophysical Research Letters, 2019, 46, 5243-5253.	1.5	64
46	Evapotranspiration Partitioning in CMIP5 Models: Uncertainties and Future Projections. Journal of Climate, 2019, 32, 2653-2671.	1.2	38
47	Development and Evaluation of a Pan-European Multimodel Seasonal Hydrological Forecasting System. Journal of Hydrometeorology, 2019, 20, 99-115.	0.7	51
48	Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. Environmental Research Letters, 2018, 13, 014003.	2.2	104
49	Anthropogenic warming exacerbates European soil moisture droughts. Nature Climate Change, 2018, 8, 421-426.	8.1	439
50	Climate Change and Drought: the Soil Moisture Perspective. Current Climate Change Reports, 2018, 4, 180-191.	2.8	170
51	Soil Moistureâ€“Evapotranspiration Coupling in CMIP5 Models: Relationship with Simulated Climate and Projections. Journal of Climate, 2018, 31, 4865-4878.	1.2	47
52	Bias Correction of Historical and Future Simulations of Precipitation and Temperature for China from CMIP5 Models. Journal of Hydrometeorology, 2018, 19, 609-623.	0.7	69
53	Shifts in tree functional composition amplify the response of forest biomass to climate. Nature, 2018, 556, 99-102.	13.7	99
54	A largeâ€area, spatially continuous assessment of land cover map error and its impact on downstream analyses. Global Change Biology, 2018, 24, 322-337.	4.2	42

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55	Broad threat to humanity from cumulative climate hazards intensified by greenhouse gas emissions. Nature Climate Change, 2018, 8, 1062-1071.	8.1	365
56	Response of electricity sector air pollution emissions to drought conditions in the western United States. Environmental Research Letters, 2018, 13, 124032.	2.2	20
57	Satellite Remote Sensing for Water Resources Management: Potential for Supporting Sustainable Development in Dataâ€Poor Regions. Water Resources Research, 2018, 54, 9724-9758.	1.7	247
58	A Climate Data Record (CDR) for the global terrestrial water budget: 1984â€“2010. Hydrology and Earth System Sciences, 2018, 22, 241-263.	1.9	91
59	Evapotranspiration simulations in ISIMIP2aâ€”Evaluation of spatio-temporal characteristics with a comprehensive ensemble of independent datasets. Environmental Research Letters, 2018, 13, 075001.	2.2	38
60	Comparing empirical and survey-based yield forecasts in a dryland agro-ecosystem. Agricultural and Forest Meteorology, 2018, 262, 147-156.	1.9	17
61	Climate change alters low flows in Europe under global warming of 1.5, 2, and 3â€Â°C. Hydrology and Earth System Sciences, 2018, 22, 1017-1032.	1.9	146
62	Drivers of Variability in Atmospheric Evaporative Demand: Multiscale Spectral Analysis Based on Observations and Physically Based Modeling. Water Resources Research, 2018, 54, 3510-3529.	1.7	20
63	Intensification of hydrological drought in California by human water management. Geophysical Research Letters, 2017, 44, 1777-1785.	1.5	99
64	Spatiotemporal dynamics of global drought. Geophysical Research Letters, 2017, 44, 2254-2263.	1.5	125
65	Uncertainties in Future Projections of Summer Droughts and Heat Waves over the Contiguous United States. Journal of Climate, 2017, 30, 6225-6246.	1.2	34
66	Divergent surface and total soil moisture projections under global warming. Geophysical Research Letters, 2017, 44, 236-244.	1.5	206
67	Historical effects of CO2 and climate trends on global crop water demand. Nature Climate Change, 2017, 7, 901-905.	8.1	19
68	Corrigendum to â€œDevelopment and Application of Improved Long-Term Datasets of Surface Hydrology for Texasâ€• Advances in Meteorology, 2017, 2017, 1-4.	0.6	0
69	Development and Application of Improved Long-Term Datasets of Surface Hydrology for Texas. Advances in Meteorology, 2017, 2017, 1-13.	0.6	5
70	Continuous and consistent land use/cover change estimates using socio-ecological data. Earth System Dynamics, 2017, 8, 55-73.	2.7	6
71	Nonstationarity of low flows and their timing inÂtheÂeasternÂUnitedÂStates. Hydrology and Earth System Sciences, 2016, 20, 633-649.	1.9	44
72	LS3MIP (v1.0) contribution to CMIP6: the Land Surface, Snow and Soil moisture Model Intercomparison Project â€“ aims, setup and expected outcome. Geoscientific Model Development, 2016, 9, 2809-2832.	1.3	152

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73	Impacts of recent drought and warm years on water resources and electricity supply worldwide. Environmental Research Letters, 2016, 11, 124021.	2.2	85
74	Drought in a human-modified world: reframing drought definitions, understanding, and analysis approaches. Hydrology and Earth System Sciences, 2016, 20, 3631-3650.	1.9	289
75	Climate-driven shifts in continental net primary production implicated as a driver of a recent abrupt increase in the land carbon sink. Biogeosciences, 2016, 13, 1597-1607.	1.3	12
76	Terrestrial Precipitation Analysis (<scp>TPA</scp>): A resource for characterizing longâ€term precipitation regimes and extremes. Methods in Ecology and Evolution, 2016, 7, 1396-1401.	2.2	23
77	Depiction of drought over subâ€Saharan Africa using reanalyses precipitation data sets. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,555.	1.2	44
78	Climate change and dissolved organic carbon export to the Gulf of Maine. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2700-2716.	1.3	41
79	Spatial downscaling of precipitation using adaptable random forests. Water Resources Research, 2016, 52, 8217-8237.	1.7	152
80	Twentieth century temperature trends in CMIP3, CMIP5, and CESMâ€LE climate simulations: Spatialâ€temporal uncertainties, differences, and their potential sources. Journal of Geophysical Research D: Atmospheres, 2016, 121, 9561-9575.	1.2	15
81	Reconciling agriculture, carbon and biodiversity in a savannah transformation frontier. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150316.	1.8	33
82	Increased Drought and Pluvial Risk over California due to Changing Oceanic Conditions. Journal of Climate, 2016, 29, 8269-8279.	1.2	19
83	Spatial validation of largeâ€scale land surface models against monthly land surface temperature patterns using innovative performance metrics. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5430-5452.	1.2	46
84	Evaluation of historical and future simulations of precipitation and temperature in central Africa from CMIP5 climate models. Journal of Geophysical Research D: Atmospheres, 2016, 121, 130-152.	1.2	116
85	Changes in the low flow regime over the eastern United States (1962â€“2011): variability, trends, and attributions. Climatic Change, 2016, 135, 639-653.	1.7	39
86	Drought in the Anthropocene. Nature Geoscience, 2016, 9, 89-91.	5.4	537
87	Continental Runoff into the Oceans (1950â€“2008). Journal of Hydrometeorology, 2015, 16, 1502-1520.	0.7	37
88	The impacts of future climate and carbon dioxide changes on the average and variability of US maize yields under two emission scenarios. Environmental Research Letters, 2015, 10, 045003.	2.2	68
89	The Global Gridded Crop Model Intercomparison: data and modeling protocols for Phase 1 (v1.0). Geoscientific Model Development, 2015, 8, 261-277.	1.3	190
90	Seasonal Forecasting of Global Hydrologic Extremes: System Development and Evaluation over GEWEX Basins. Bulletin of the American Meteorological Society, 2015, 96, 1895-1912.	1.7	85

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91	Evaluation of the Tropical Rainfall Measuring Mission Multi-Satellite Precipitation Analysis (TMPA) for assessment of large-scale meteorological drought. Remote Sensing of Environment, 2015, 159, 181-193.	4.6	126
92	Photosynthetic seasonality of global tropical forests constrained by hydroclimate. Nature Geoscience, 2015, 8, 284-289.	5.4	337
93	The Observed State of the Water Cycle in the Early Twenty-First Century. Journal of Climate, 2015, 28, 8289-8318.	1.2	230
94	The Observed State of the Energy Budget in the Early Twenty-First Century. Journal of Climate, 2015, 28, 8319-8346.	1.2	160
95	Seasonal Soil Moisture Drought Prediction over Europe Using the North American Multi-Model Ensemble (NMME). Journal of Hydrometeorology, 2015, 16, 2329-2344.	0.7	93
96	Changes in drought risk over the contiguous United States (1901â€“2012): The influence of the Pacific and Atlantic Oceans. Geophysical Research Letters, 2014, 41, 5897-5903.	1.5	46
97	Development of a High-Resolution Gridded Daily Meteorological Dataset over Sub-Saharan Africa: Spatial Analysis of Trends in Climate Extremes. Journal of Climate, 2014, 27, 5815-5835.	1.2	73
98	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. Journal of Hydrometeorology, 2014, 15, 2586-2614.	0.7	66
99	Uncertainties, Correlations, and Optimal Blends of Drought Indices from the NLDAS Multiple Land Surface Model Ensemble. Journal of Hydrometeorology, 2014, 15, 1636-1650.	0.7	37
100	Application of USDM statistics in NLDAS-2: Optimal blended NLDAS drought index over the continental United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2947-2965.	1.2	69
101	A multiscale analysis of drought and pluvial mechanisms for the Southeastern United States. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7348-7367.	1.2	34
102	Did a skillful prediction of sea surface temperatures help or hinder forecasting of the 2012 Midwestern US drought?. Environmental Research Letters, 2014, 9, 034005.	2.2	30
103	Changing water availability during the African maize-growing season, 1979â€“2010. Environmental Research Letters, 2014, 9, 075005.	2.2	15
104	CMIP5 Climate Model Analyses: Climate Extremes in the United States. Bulletin of the American Meteorological Society, 2014, 95, 571-583.	1.7	270
105	A Prototype Global Drought Information System Based on Multiple Land Surface Models. Journal of Hydrometeorology, 2014, 15, 1661-1676.	0.7	56
106	A Drought Monitoring and Forecasting System for Sub-Sahara African Water Resources and Food Security. Bulletin of the American Meteorological Society, 2014, 95, 861-882.	1.7	371
107	Global warming and changes in drought. Nature Climate Change, 2014, 4, 17-22.	8.1	2,231
108	North American Climate in CMIP5 Experiments: Part III: Assessment of Twenty-First-Century Projections*. Journal of Climate, 2014, 27, 2230-2270.	1.2	231

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109	Global assessment of trends in wetting and drying over land. Nature Geoscience, 2014, 7, 716-721.	5.4	613
110	Assessment of water budget for sixteen large drainage basins in Canada. Journal of Hydrology, 2014, 512, 1-15.	2.3	66
111	Evaluation of multi-model simulated soil moisture in NLDAS-2. Journal of Hydrology, 2014, 512, 107-125.	2.3	163
112	A physically based approach for the estimation of root-zone soil moisture from surface measurements. Hydrology and Earth System Sciences, 2014, 18, 1199-1212.	1.9	71
113	Terrestrial hydrological controls on land surface phenology of African savannas and woodlands. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1652-1669.	1.3	117
114	Confronting terrestrial biosphere models with forest inventory data. , 2014, 24, 699-715.		18
115	Less reliable water availability in the 21st century climate projections. Earth's Future, 2014, 2, 152-160.	2.4	59
116	Global Climate Model Simulations of North America. Regional Climate Studies, 2014, , 167-200.	1.2	1
117	North American Climate in CMIP5 Experiments. Part II: Evaluation of Historical Simulations of Intraseasonal to Decadal Variability. Journal of Climate, 2013, 26, 9247-9290.	1.2	124
118	Validation of Noah-Simulated Soil Temperature in the North American Land Data Assimilation System Phase 2. Journal of Applied Meteorology and Climatology, 2013, 52, 455-471.	0.6	49
119	Using a Gridded Global Dataset to Characterize Regional Hydroclimate in Central Chile. Journal of Hydrometeorology, 2013, 14, 251-265.	0.7	21
120	North American Climate in CMIP5 Experiments. Part I: Evaluation of Historical Simulations of Continental and Regional Climatology. Journal of Climate, 2013, 26, 9209-9245.	1.2	242
121	Global Multimodel Analysis of Drought in Runoff for the Second Half of the Twentieth Century. Journal of Hydrometeorology, 2013, 14, 1535-1552.	0.7	58
122	The Influence of Atlantic Tropical Cyclones on Drought over the Eastern United States (1980â€“2007). Journal of Climate, 2013, 26, 3067-3086.	1.2	58
123	Toward Global Drought Early Warning Capability: Expanding International Cooperation for the Development of a Framework for Monitoring and Forecasting. Bulletin of the American Meteorological Society, 2013, 94, 776-785.	1.7	142
124	Anthropogenic influence on multidecadal changes in reconstructed global evapotranspiration. Nature Climate Change, 2013, 3, 59-62.	8.1	159
125	Overview of the North American Land Data Assimilation System (NLDAS). , 2013, , 337-377.		9
126	Probabilistic Seasonal Forecasting of African Drought by Dynamical Models. Journal of Hydrometeorology, 2013, 14, 1706-1720.	0.7	71

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127	Global-Scale Estimation of Land Surface Heat Fluxes from Space. , 2013, , 249-282.		5
128	Global analysis of seasonal streamflow predictability using an ensemble prediction system and observations from 6192 small catchments worldwide. Water Resources Research, 2013, 49, 2729-2746.	1.7	105
129	Validation of AIRS/AMSUâ€A water vapor and temperature data with in situ aircraft observations from the surface to UT/LS from 87Â°Nâ€“67Â°S. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6816-6836.	1.2	25
130	On the sources of global land surface hydrologic predictability. Hydrology and Earth System Sciences, 2013, 17, 2781-2796.	1.9	93
131	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. Hydrology and Earth System Sciences, 2013, 17, 3707-3720.	1.9	310
132	Representation of Terrestrial Hydrology and Large-Scale Drought of the Continental United States from the North American Regional Reanalysis. Journal of Hydrometeorology, 2012, 13, 856-876.	0.7	42
133	Little change in global drought over the past 60 years. Nature, 2012, 491, 435-438.	13.7	1,532
134	Multisource Estimation of Long-Term Terrestrial Water Budget for Major Global River Basins. Journal of Climate, 2012, 25, 3191-3206.	1.2	188
135	Continentalâ€scale water and energy flux analysis and validation for the North American Land Data Assimilation System project phase 2 (NLDASâ€2): 1. Intercomparison and application of model products. Journal of Geophysical Research, 2012, 117, .	3.3	530
136	Continentalâ€scale water and energy flux analysis and validation for North American Land Data Assimilation System project phase 2 (NLDASâ€2): 2. Validation of modelâ€simulated streamflow. Journal of Geophysical Research, 2012, 117, .	3.3	229
137	Reply to comment by Keith J. Beven and Hannah L. Cloke on â€œHyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial waterâ€. Water Resources Research, 2012, 48, .	1.7	26
138	Multimodel Analysis of Energy and Water Fluxes: Intercomparisons between Operational Analyses, a Land Surface Model, and Remote Sensing. Journal of Hydrometeorology, 2012, 13, 3-26.	0.7	24
139	The role of winter precipitation and temperature on northern Eurasian streamflow trends. Journal of Geophysical Research, 2012, 117, .	3.3	20
140	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	312
141	Global intercomparison of 12 land surface heat flux estimates. Journal of Geophysical Research, 2011, 116, .	3.3	309
142	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	1.7	634
143	Soil Moisture Drought in China, 1950â€“2006. Journal of Climate, 2011, 24, 3257-3271.	1.2	392
144	Estimation of the Terrestrial Water Budget over Northern Eurasia through the Use of Multiple Data Sources. Journal of Climate, 2011, 24, 3272-3293.	1.2	41

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145	Multiâ€model, multiâ€sensor estimates of global evapotranspiration: climatology, uncertainties and trends. Hydrological Processes, 2011, 25, 3993-4010.	1.1	147
146	Reconciling the global terrestrial water budget using satellite remote sensing. Remote Sensing of Environment, 2011, 115, 1850-1865.	4.6	152
147	Recent decline in the global land evapotranspiration trend due to limited moisture supply. Nature, 2010, 467, 951-954.	13.7	1,771
148	Global Evaluation of the ISBA-TRIP Continental Hydrological System. Part I: Comparison to GRACE Terrestrial Water Storage Estimates and In Situ River Discharges. Journal of Hydrometeorology, 2010, 11, 583-600.	0.7	89
149	Long-Term Regional Estimates of Evapotranspiration for Mexico Based on Downscaled ISCCP Data. Journal of Hydrometeorology, 2010, 11, 253-275.	0.7	58
150	Bias correction of monthly precipitation and temperature fields from Intergovernmental Panel on Climate Change AR4 models using equidistant quantile matching. Journal of Geophysical Research, 2010, 115, .	3.3	581
151	Quantifying uncertainty in a remote sensing-based estimate of evapotranspiration over continental USA. International Journal of Remote Sensing, 2010, 31, 3821-3865.	1.3	96
152	Global and Continental Drought in the Second Half of the Twentieth Century: Severityâ€“Areaâ€“Duration Analysis and Temporal Variability of Large-Scale Events. Journal of Climate, 2009, 22, 1962-1981.	1.2	331
153	Closing the terrestrial water budget from satellite remote sensing. Geophysical Research Letters, 2009, 36, .	1.5	186
154	Hydrological consistency using multi-sensor remote sensing data for water and energy cycle studies. Remote Sensing of Environment, 2008, 112, 430-444.	4.6	108
155	Projected changes in drought occurrence under future global warming from multi-model, multi-scenario, IPCC AR4 simulations. Climate Dynamics, 2008, 31, 79-105.	1.7	925
156	An efficient calibration method for continentalâ€scale land surface modeling. Water Resources Research, 2008, 44, .	1.7	149
157	Global Trends and Variability in Soil Moisture and Drought Characteristics, 1950â€“2000, from Observation-Driven Simulations of the Terrestrial Hydrologic Cycle. Journal of Climate, 2008, 21, 432-458.	1.2	536
158	Characteristics of global and regional drought, 1950â€“2000: Analysis of soil moisture data from offâ€line simulation of the terrestrial hydrologic cycle. Journal of Geophysical Research, 2007, 112, .	3.3	307
159	Past and future changes in climate and hydrological indicators in the US Northeast. Climate Dynamics, 2007, 28, 381-407.	1.7	697
160	High-performance Earth system modeling with NASA/GSFCâ€™s Land Information System. Innovations in Systems and Software Engineering, 2007, 3, 157-165.	1.6	184
161	Development of a 50-Year High-Resolution Global Dataset of Meteorological Forcings for Land Surface Modeling. Journal of Climate, 2006, 19, 3088-3111.	1.2	1,581
162	Land information system: An interoperable framework for high resolution land surface modeling. Environmental Modelling and Software, 2006, 21, 1402-1415.	1.9	517

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163	Detection Time for Plausible Changes in Annual Precipitation, Evapotranspiration, and Streamflow in Three Mississippi River Sub-Basins. Climatic Change, 2005, 72, 17-36.	1.7	42
164	Connectivity between Eurasian snow cover extent and Canadian snow water equivalent and river discharge. Journal of Geophysical Research, 2005, 110, .	3.3	36
165	An intercomparison of soil moisture fields in the North American Land Data Assimilation System (NLDAS). Journal of Geophysical Research, 2004, 109, .	3.3	88
166	Streamflow and water balance intercomparisons of four land surface models in the North American Land Data Assimilation System project. Journal of Geophysical Research, 2004, 109, .	3.3	141
167	The multi-institution North American Land Data Assimilation System (NLDAS): Utilizing multiple GCIP products and partners in a continental distributed hydrological modeling system. Journal of Geophysical Research, 2004, 109, .	3.3	985
168	A simulated soil moisture based drought analysis for the United States. Journal of Geophysical Research, 2004, 109, .	3.3	281
169	Correction of the High-Latitude Rain Day Anomaly in the NCEPâ€“NCAR Reanalysis for Land Surface Hydrological Modeling. Journal of Climate, 2004, 17, 3814-3828.	1.2	51
170	Realâ€time and retrospective forcing in the North American Land Data Assimilation System (NLDAS) project. Journal of Geophysical Research, 2003, 108, .	3.3	357
171	Evaluation of the North American Land Data Assimilation System over the southern Great Plains during the warm season. Journal of Geophysical Research, 2003, 108, .	3.3	157
172	Validation of the North American Land Data Assimilation System (NLDAS) retrospective forcing over the southern Great Plains. Journal of Geophysical Research, 2003, 108, .	3.3	136
173	Snow process modeling in the North American Land Data Assimilation System (NLDAS): 1. Evaluation of modelâ€simulated snow cover extent. Journal of Geophysical Research, 2003, 108, .	3.3	95
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