Paul A Dirmeyer

List of Publications by Citations

185 papers	14,826 citations	58 h-index	119 g-index
198 ext. papers	16,618 ext. citations	4.8 avg, IF	6.55 L-index

#	Paper	IF	Citations
185	Regions of strong coupling between soil moisture and precipitation. *Science*, **2004**, 305, 1138-40	33.3	1939
184	The Common Land Model. *Bulletin of the American Meteorological Society*, **2003**, 84, 1013-1024	6.1	897
183	GLACE: The Global Land-Atmosphere Coupling Experiment. Part I: Overview. *Journal of Hydrometeorology*, **2006**, 7, 590-610	3.7	525
182	GSWP-2: Multimodel Analysis and Implications for Our Perception of the Land Surface. *Bulletin of the American Meteorological Society*, **2006**, 87, 1381-1398	6.1	518
181	Land cover changes and their biogeophysical effects on climate. *International Journal of Climatology*, **2014**, 34, 929-953	3.5	410
180	Land information system: An interoperable framework for high resolution land surface modeling. *Environmental Modelling and Software*, **2006**, 21, 1402-1415	5.2	400
179	On the Nature of Soil Moisture in Land Surface Models. *Journal of Climate*, **2009**, 22, 4322-4335	4.4	387
178	GLACE: The Global Land-Atmosphere Coupling Experiment. Part II: Analysis. *Journal of Hydrometeorology*, **2006**, 7, 611-625	3.7	287
177	Modeling Root Water Uptake in Hydrological and Climate Models. *Bulletin of the American Meteorological Society*, **2001**, 82, 2797-2809	6.1	282
176	Contribution of land surface initialization to subseasonal forecast skill: First results from a multi-model experiment. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	280
175	Global intercomparison of 12 land surface heat flux estimates. *Journal of Geophysical Research*, **2011**, 116,		271
174	Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	267
173	The Pilot Phase of the Global Soil Wetness Project. *Bulletin of the American Meteorological Society*, **1999**, 80, 851-878	6.1	264
172	Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. *Hydrology and Earth System Sciences*, **2013**, 17, 3707-3720	5.5	253
171	The Second Phase of the Global Land-Atmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. *Journal of Hydrometeorology*, **2011**, 12, 805-822	3.7	242
170	Precipitation, Recycling, and Land Memory: An Integrated Analysis. *Journal of Hydrometeorology*, **2009**, 10, 278-288	3.7	234
169	The terrestrial segment of soil moisture-climate coupling. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	213

168	Soil Moisture Memory in AGCM Simulations: Analysis of Global Land–Atmosphere Coupling Experiment (GLACE) Data. *Journal of Hydrometeorology*, **2006**, 7, 1090-1112	3.7	212
167	Assessment of Annual Runoff from Land Surface Models Using Total Runoff Integrating Pathways (TRIP). *Journal of the Meteorological Society of Japan*, **1999**, 77, 235-255	2.8	208
166	Do Global Models Properly Represent the Feedback between Land and Atmosphere?. *Journal of Hydrometeorology*, **2006**, 7, 1177-1198	3.7	180
165	Characterization of the Global Hydrologic Cycle from a Back-Trajectory Analysis of Atmospheric Water Vapor. *Journal of Hydrometeorology*, **2007**, 8, 20-37	3.7	179
164	Using a Global Soil Wetness Dataset to Improve Seasonal Climate Simulation. *Journal of Climate*, **2000**, 13, 2900-2922	4.4	175
163	The Rhône-Aggregation Land Surface Scheme Intercomparison Project: An Overview. *Journal of Climate*, **2004**, 17, 187-208	4.4	161
162	Simulating the diurnal cycle of rainfall in global climate models: resolution versus parameterization. *Climate Dynamics*, **2012**, 39, 399-418	4.2	160
161	Contrasting evaporative moisture sources during the drought of 1988 and the flood of 1993. *Journal of Geophysical Research*, **1999**, 104, 19383-19397		159
160	The Plumbing of Land Surface Models: Benchmarking Model Performance. *Journal of Hydrometeorology*, **2015**, 16, 1425-1442	3.7	150
159	High-performance Earth system modeling with NASA/GSFC's Land Information System. *Innovations in Systems and Software Engineering*, **2007**, 3, 157-165	1.1	143
158	Land–Atmosphere Interactions: The LoCo Perspective. *Bulletin of the American Meteorological Society*, **2018**, 99, 1253-1272	6.1	140
157	Albedo as a modulator of climate response to tropical deforestation. *Journal of Geophysical Research*, **1994**, 99, 20863		119
156	Trends in Land–Atmosphere Interactions from CMIP5 Simulations. *Journal of Hydrometeorology*, **2013**, 14, 829-849	3.7	118
155	Human–water interface in hydrological modelling: current status and future directions. *Hydrology and Earth System Sciences*, **2017**, 21, 4169-4193	5.5	114
154	Intercomparison and analyses of the climatology of the West African Monsoon in the West African Monsoon Modeling and Evaluation project (WAMME) first model intercomparison experiment. *Climate Dynamics*, **2010**, 35, 3-27	4.2	110
153	Comparison, Validation, and Transferability of Eight Multiyear Global Soil Wetness Products. *Journal of Hydrometeorology*, **2004**, 5, 1011-1033	3.7	105
152	Modeling the effects of vegetation on Mediterranean climate during the Roman Classical Period Part I: Climate history and model sensitivity. *Global and Planetary Change*, **2000**, 25, 163-184	4.2	101
151	Comparing the Degree of Land–Atmosphere Interaction in Four Atmospheric General Circulation Models. *Journal of Hydrometeorology*, **2002**, 3, 363-375	3.7	100

150	The Sensitivity of Surface Fluxes to Soil Water Content in Three Land Surface Schemes. *Journal of Hydrometeorology*, **2000**, 1, 121-134	3.7	95
149	Evidence for Enhanced Land-Atmosphere Feedback in a Warming Climate. *Journal of Hydrometeorology*, **2012**, 13, 981-995	3.7	84
148	Comparison of ERA40 and NCEP/DOE near-surface data sets with other ISLSCP-II data sets. *Journal of Geophysical Research*, **2006**, 111,		82
147	Where Does the Irrigation Water Go? An Estimate of the Contribution of Irrigation to Precipitation Using MERRA. *Journal of Hydrometeorology*, **2013**, 14, 275-289	3.7	80
146	A 36-yr Climatological Description of the Evaporative Sources of Warm-Season Precipitation in the Mississippi River Basin. *Journal of Hydrometeorology*, **2001**, 2, 537-557	3.7	78
145	Vegetation Stress as a Feedback Mechanism in Midlatitude Drought. *Journal of Climate*, **1994**, 7, 1463-1483	4.4	73
144	Import and export of atmospheric water vapor between nations. *Journal of Hydrology*, **2009**, 365, 11-22	6	72
143	Revolutionizing Climate Modeling with Project Athena: A Multi-Institutional, International Collaboration. *Bulletin of the American Meteorological Society*, **2013**, 94, 231-245	6.1	71
142	Adapting observationally based metrics of biogeophysical feedbacks from land cover/land use change to climate modeling. *Environmental Research Letters*, **2016**, 11, 034002	6.2	70
141	HESS Opinions "A perspective on isotope versus non-isotope approaches to determine the contribution of transpiration to total evaporation". *Hydrology and Earth System Sciences*, **2014**, 18, 2815-2827	5.5	68
140	Acceleration of Land Surface Model Development over a Decade of Glass. *Bulletin of the American Meteorological Society*, **2011**, 92, 1593-1600	6.1	68
139	Detection and attribution of anthropogenic forcing to diurnal temperature range changes from 1950 to 1999: comparing multi-model simulations with observations. *Climate Dynamics*, **2010**, 35, 1289-1307	4.2	68
138	Water vapor sources for Yangtze River Valley rainfall: Climatology, variability, and implications for rainfall forecasting. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		67
137	Floods over the U.S. Midwest: A Regional Water Cycle Perspective. *Journal of Hydrometeorology*, **2010**, 11, 1172-1181	3.7	67
136	Dynamic Downscaling of Seasonal Simulations over South America. *Journal of Climate*, **2003**, 16, 103-117	4.4	67
135	Improving the quality of simulated soil moisture with a multi-model ensemble approach. *Quarterly Journal of the Royal Meteorological Society*, **2007**, 133, 731-747	6.4	66
134	Dissecting soil moisture-precipitation coupling. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	63
133	Confronting weather and climate models with observational data from soil moisture networks over the United States. *Journal of Hydrometeorology*, **2016**, 17, 1049-1067	3.7	60

132	Multidecadal Climate Variability and the Warming Hole in North America: Results from CMIP5 Twentieth- and Twenty-First-Century Climate Simulations*. *Journal of Climate*, **2013**, 26, 3511-3527	4.4	60
131	A History and Review of the Global Soil Wetness Project (GSWP). *Journal of Hydrometeorology*, **2011**, 12, 729-749	3.7	60
130	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. *Remote Sensing*, **2018**, 10, 2038	5	60
129	Climate research must sharpen its view. *Nature Climate Change*, **2017**, 7, 89-91	21.4	58
128	ISLSCP Initiative II global data sets: Surface boundary conditions and atmospheric forcings for land-atmosphere studies. *Journal of Geophysical Research*, **2006**, 111,		58
127	Land use/cover change impacts in CMIP5 climate simulations: A new methodology and 21st century challenges. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 6337-6353	4.4	57
126	Effects of land cover change on moisture availability and potential crop yield in the world breadbaskets. *Environmental Research Letters*, **2012**, 7, 014009	6.2	57
125	Interannual Variability of Land–Atmosphere Coupling Strength. *Journal of Hydrometeorology*, **2013**, 14, 1636-1646	3.7	56
124	Snow-atmosphere coupling strength in a global atmospheric model. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	56
123	Evaluation of AMSR-E soil moisture results using the in-situ data over the Little River Experimental Watershed, Georgia. *Remote Sensing of Environment*, **2008**, 112, 3142-3152	13.2	56
122	Land surface impacts on subseasonal and seasonal predictability. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	55
121	Information theoretic evaluation of satellite soil moisture retrievals. *Remote Sensing of Environment*, **2018**, 204, 392-400	13.2	54
120	The Maya Express Floods in the U.S. Midwest. *Eos*, **2009**, 90, 101-102	1.5	53
119	A process-based framework for quantifying the atmospheric preconditioning of surface-triggered convection. *Geophysical Research Letters*, **2014**, 41, 173-178	4.9	52
118	The Hydrologic Feedback Pathway for Land–Climate Coupling. *Journal of Hydrometeorology*, **2006**, 7, 857-867	3.7	50
117	Current and Emerging Developments in Subseasonal to Decadal Prediction. *Bulletin of the American Meteorological Society*, **2020**, 101, E869-E896	6.1	49
116	The effect on regional and global climate of expansion of the world's deserts. *Quarterly Journal of the Royal Meteorological Society*, **1996**, 122, 451-482	6.4	49
115	Moisture origin and transport processes in Colombia, northern South America. *Climate Dynamics*, **2018**, 50, 971-990	4.2	48

114	Terrestrial contribution to the heterogeneity in hydrological changes under global warming. *Water Resources Research*, **2016**, 52, 3127-3142	5.4	47
113	Windows of Opportunity for Skillful Forecasts Subseasonal to Seasonal and Beyond. *Bulletin of the American Meteorological Society*, **2020**, 101, E608-E625	6.1	46
112	Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. *Journal of Hydrometeorology*, **2018**, 19, 375-392	3.7	46
111	Relation of Eurasian Snow Cover and Indian Summer Monsoon Rainfall: Importance of the Delayed Hydrological Effect. *Journal of Climate*, **2017**, 30, 1273-1289	4.4	44
110	Rebound in Atmospheric Predictability and the Role of the Land Surface. *Journal of Climate*, **2012**, 25, 4744-4749	4.4	44
109	The Role of the Land Surface Background State in Climate Predictability. *Journal of Hydrometeorology*, **2003**, 4, 599-610	3.7	44
108	Investigating the impact of land-use land-cover change on Indian summer monsoon daily rainfall and temperature during 1951–2005 using a regional climate model. *Hydrology and Earth System Sciences*, **2016**, 20, 1765-1784	5.5	44
107	Intensified land surface control on boundary layer growth in a changing climate. *Geophysical Research Letters*, **2014**, 41, 1290-1294	4.9	43
106	Revisiting trends in wetness and dryness in the presence of internal climate variability and water limitations over land. *Geophysical Research Letters*, **2015**, 42, 10,867	4.9	42
105	Evaluation of the Second Global Soil Wetness Project soil moisture simulations: 2. Sensitivity to external meteorological forcing. *Journal of Geophysical Research*, **2006**, 111,		42
104	The Sensitivity of Simulated River Discharge to Land Surface Representation and Meteorological Forcings. *Journal of Hydrometeorology*, **2010**, 11, 334-351	3.7	38
103	Less reliable water availability in the 21st century climate projections. *Earthls Future*, **2014**, 2, 152-160	7.9	38
102	The Land Surface Contribution to the Potential Predictability of Boreal Summer Season Climate. *Journal of Hydrometeorology*, **2005**, 6, 618-632	3.7	35
101	Assessing GCM Sensitivity to Soil Wetness Using GSWP Data. *Journal of the Meteorological Society of Japan*, **1999**, 77, 367-385	2.8	35
100	Sensitivity of Simulated Surface Fluxes to Changes in Land Surface Parameterizations-A Study Using ABRACOS Data. *Journal of Applied Meteorology and Climatology*, **1996**, 35, 386-400		35
99	Sensitivity of Numerical Weather Forecasts to Initial Soil Moisture Variations in CFSv2. *Weather and Forecasting*, **2016**, 31, 1973-1983	2.1	35
98	Comparing Evaporative Sources of Terrestrial Precipitation and Their Extremes in MERRA Using Relative Entropy. *Journal of Hydrometeorology*, **2014**, 15, 102-116	3.7	34
97	How Much Do Different Land Models Matter for Climate Simulation? Part I: Climatology and Variability. *Journal of Climate*, **2010**, 23, 3120-3134	4.4	34

96	Spatiotemporal patterns of changes in maximum and minimum temperatures in multi-model simulations. *Geophysical Research Letters*, **2009**, 36, n/a-n/a	4.9	34
95	A Multimodel Analysis, Validation, and Transferability Study of Global Soil Wetness Products. *Journal of Hydrometeorology*, **2006**, 7, 1218-1236	3.7	34
94	Quantifying the Land–Atmosphere Coupling Behavior in Modern Reanalysis Products over the U.S. Southern Great Plains. *Journal of Climate*, **2015**, 28, 5813-5829	4.4	33
93	The plumbing of land surface models: is poor performance a result of methodology or data quality?. *Journal of Hydrometeorology*, **2016**, 17, 1705-1723	3.7	33
92	Low Skill in Dynamical Prediction of Boreal Summer Climate: Grounds for Looking beyond Sea Surface Temperature. *Journal of Climate*, **2003**, 16, 995-1002	4.4	33
91	Evolving Land–Atmosphere Interactions over North America from CMIP5 Simulations. *Journal of Climate*, **2013**, 26, 7313-7327	4.4	32
90	Sensitivity of the mean and variability of Indian summer monsoon to land surface schemes in RegCM4: Understanding coupled land-atmosphere feedbacks. *Journal of Geophysical Research D: Atmospheres*, **2015**, 120, 9437-9458	4.4	31
89	Evaluation of the Second Global Soil Wetness Project soil moisture simulations: 1. Intermodel comparison. *Journal of Geophysical Research*, **2006**, 111,		31
88	Snow–Atmosphere Coupling Strength. Part II: Albedo Effect Versus Hydrological Effect. *Journal of Hydrometeorology*, **2013**, 14, 404-418	3.7	30
87	An Evaluation of the Strength of Land–Atmosphere Coupling. *Journal of Hydrometeorology*, **2001**, 2, 329-344	3.7	30
86	West African monsoon decadal variability and surface-related forcings: Second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). *Climate Dynamics*, **2016**, 47, 3517-3545	4.2	29
85	Application of the Land–Atmosphere Coupling Paradigm to the Operational Coupled Forecast System, Version 2 (CFSv2). *Journal of Hydrometeorology*, **2017**, 18, 85-108	3.7	29
84	Impacts of Land-Use/Land-Cover Change on Afternoon Precipitation over North America. *Journal of Climate*, **2017**, 30, 2121-2140	4.4	28
83	Reforecasting the ENSO Events in the Past 57 Years (1958–2014). *Journal of Climate*, **2017**, 30, 7669-7693	4.4	28
82	Climate response to Amazon forest replacement by heterogeneous crop cover. *Hydrology and Earth System Sciences*, **2015**, 19, 4547-4557	5.5	28
81	Precipitation Infiltration in the Simplified SiB Land Surface Scheme. *Journal of the Meteorological Society of Japan*, **1999**, 77, 291-303	2.8	28
80	Validating and understanding the ENSO simulation in two coupled climate models. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2007**, 59, 292-308	2	27
79	Remote tropical and sub-tropical responses to Amazon deforestation. *Climate Dynamics*, **2016**, 46, 3057-3066	4.2	27

78	Improvements in the representation of the Indian summer monsoon in the NCEP climate forecast system version 2. *Climate Dynamics*, **2015**, 45, 2485-2498	4.2	26
77	Characteristics of the water cycle and land–atmosphere interactions from a comprehensive reforecast and reanalysis data set: CFSv2. *Climate Dynamics*, **2013**, 41, 1083-1097	4.2	25
76	The Heated Condensation Framework. Part I: Description and Southern Great Plains Case Study. *Journal of Hydrometeorology*, **2015**, 16, 1929-1945	3.7	25
75	Model Estimates of Land-Driven Predictability in a Changing Climate from CCSM4. *Journal of Climate*, **2013**, 26, 8495-8512	4.4	25
74	Toward understanding the large-scale land-atmosphere coupling in the models: Roles of different processes. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	25
73	Climate Drift in a Coupled Land–Atmosphere Model. *Journal of Hydrometeorology*, **2001**, 2, 89-100	3.7	25
72	Role of ocean evaporation in California droughts and floods. *Geophysical Research Letters*, **2016**, 43, 6554-6562	4.9	24
71	Impacts of snow cover fraction data assimilation on modeled energy and moisture budgets. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 7489-7504	4.4	24
70	How Much Do Different Land Models Matter for Climate Simulation? Part II: A Decomposed View of the Land–Atmosphere Coupling Strength. *Journal of Climate*, **2010**, 23, 3135-3145	4.4	24
69	Sensitivities of soil wetness simulation to uncertainties in precipitation and radiation. *Geophysical Research Letters*, **2008**, 35,	4.9	23
68	Evidence for trends in the Northern Hemisphere water cycle. *Geophysical Research Letters*, **2006**, 33,	4.9	23
67	Pairing FLUXNET sites to validate model representations of land-use/land-cover change. *Hydrology and Earth System Sciences*, **2018**, 22, 111-125	5.5	22
66	Reconciling the disagreement between observed and simulated temperature responses to deforestation. *Nature Communications*, **2020**, 11, 202	17.4	21
65	Hydroclimatic Variability and Predictability: A Survey of Recent Research. *Hydrology and Earth System Sciences*, **2017**, 21, 3777-3798	5.5	21
64	The Heated Condensation Framework. Part II: Climatological Behavior of Convective Initiation and Land–Atmosphere Coupling over the Conterminous United States. *Journal of Hydrometeorology*, **2015**, 16, 1946-1961	3.7	21
63	Land–Atmosphere Coupling Strength in the Global Forecast System. *Journal of Hydrometeorology*, **2011**, 12, 147-156	3.7	21
62	Land-sea geometry and its effect on monsoon circulations. *Journal of Geophysical Research*, **1998**, 103, 11555-11572		21
61	On the Harvest of Predictability From Land States in a Global Forecast Model. *Journal of Geophysical Research D: Atmospheres*, **2018**, 123, 13,111	4.4	20

60	The heated condensation framework as a convective trigger in the NCEP Climate Forecast System version 2. *Journal of Advances in Modeling Earth Systems*, **2016**, 8, 1310-1329	7.1	18
59	Empirical Correction of a Coupled Land–Atmosphere Model. *Monthly Weather Review*, **2008**, 136, 4063-4076	2.4	18
58	Regional simulation of interannual variability over South America. *Journal of Geophysical Research*, **2002**, 107, LBA 3-1		18
57	The Sahelian Climate. *Global Change - the IGBP Series*, **2004**, 59-77		17
56	Global observed and modelled impacts of irrigation on surface temperature. *International Journal of Climatology*, **2019**, 39, 2587-2600	3.5	17
55	Biogeophysical impacts of land use on present-day climate: near-surface temperature change and radiative forcing. *Atmospheric Science Letters*, **2001**, 2, 1-8	2.4	16
54	Interannual variability over the eastern North Atlantic Ocean: Chemical and meteorological evidence for tropical influence on regional-scale transport in the extratropics. *Journal of Geophysical Research*, **1994**, 99, 22923		16
53	Land-Atmosphere Interactions Exacerbated the Drought and Heatwave Over Northern Europe During Summer 2018. *AGU Advances*, **2021**, 2, e2020AV000283	5.4	16
52	The relative importance among anthropogenic forcings of land use/land cover change in affecting temperature extremes. *Climate Dynamics*, **2019**, 52, 2269-2285	4.2	15
51	A study of land surface processes using land surface models over the Little River Experimental Watershed, Georgia. *Journal of Geophysical Research*, **2008**, 113,		15
50	Evaluation of heat wave forecasts seamlessly across subseasonal timescales. *Npj Climate and Atmospheric Science*, **2018**, 1,	8	15
49	Changes in Seasonal Predictability due to Global Warming. *Journal of Climate*, **2014**, 27, 300-311	4.4	14
48	Asymmetric response of maximum and minimum temperatures to soil emissivity change over the Northern African Sahel in a GCM. *Geophysical Research Letters*, **2008**, 35,	4.9	14
47	Snow–Atmosphere Coupling Strength. Part I: Effect of Model Biases. *Journal of Hydrometeorology*, **2013**, 14, 389-403	3.7	12
46	Validating Estimates of Land Surface Parameterizations by Annual Discharge using Total Runoff Integrating Pathways.. *Suimon Mizu Shigen Gakkaishi*, **1997**, 10, 416-425	0.2	12
45	High-performance land surface modeling with a Linux cluster. *Computers and Geosciences*, **2008**, 34, 1492-1504	4.5	12
44	Interannual variability of surface evaporative moisture sources of warm-season precipitation in the Mississippi River basin. *Journal of Geophysical Research*, **2003**, 108, GCP 7-1-GCP 7-12		12
43	Flux Replacement as a Method to Diagnose Coupled Land–Atmosphere Model Feedback. *Journal of Hydrometeorology*, **2004**, 5, 1034-1048	3.7	12

42	Modeling the Effect of Land Surface Evaporation Variability on Precipitation Variability. Part I: General Response. *Journal of Hydrometeorology*, **2002**, 3, 433-450	3.7	12
41	Usefulness of ensemble forecasts from NCEP Climate Forecast System in sub-seasonal to intra-annual forecasting. *Geophysical Research Letters*, **2014**, 41, 3586-3593	4.9	11
40	Effects of realistic land surface initializations on subseasonal to seasonal soil moisture and temperature predictability in North America and in changing climate simulated by CCSM4. *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 13,250-13,270	4.4	11
39	Sensitivity of land precipitation to surface evapotranspiration: a nonlocal perspective based on water vapor transport. *Geophysical Research Letters*, **2019**, 46, 12588-12597	4.9	10
38	Air, Sea, and Land Interactions of the Continental U.S. Hydroclimate. *Journal of Hydrometeorology*, **2009**, 10, 353-373	3.7	10
37	Soil Evaporation Stress Determines Soil Moisture-Evapotranspiration Coupling Strength in Land Surface Modeling. *Geophysical Research Letters*, **2020**, 47, e2020GL090391	4.9	10
36	Impact of Land Surface Initialization and Land-Atmosphere Coupling on the Prediction of the Indian Summer Monsoon with the CFSv2. *Frontiers in Environmental Science*, **2018**, 5,	4.8	9
35	Sensitivities of Land Cover Precipitation Feedback to Convective Triggering. *Journal of Hydrometeorology*, **2017**, 18, 2265-2283	3.7	9
34	Land Surface Processes Relevant to Sub-seasonal to Seasonal (S2S) Prediction **2019**, 165-181		9
33	Representing subgrid convective initiation in the Community Earth System Model. *Journal of Advances in Modeling Earth Systems*, **2017**, 9, 1740-1758	7.1	8
32	Sensitivity of Land Surface Simulations to the Treatment of Vegetation Properties and the Implications for Seasonal Climate Prediction. *Journal of Hydrometeorology*, **2008**, 9, 348-366	3.7	8
31	A comparative study of two land surface schemes in regional climate integrations over South America. *Journal of Geophysical Research*, **2002**, 107, LBA 48-1		8
30	Land-caused uncertainties in climate change simulations: a study with the COLA AGCM. *Quarterly Journal of the Royal Meteorological Society*, **2010**, 136, 819-824	6.4	7
29	Modeling the Effect of Land Surface Evaporation Variability on Precipitation Variability. Part II: Time- and Space-Scale structure. *Journal of Hydrometeorology*, **2002**, 3, 451-466	3.7	7
28	Indications of Surface and Sub-Surface Hydrologic Properties from SMAP Soil Moisture Retrievals. *Hydrology*, **2018**, 5, 36	2.8	7
27	Differing Responses of the Diurnal Cycle of Land Surface and Air Temperatures to Deforestation. *Journal of Climate*, **2019**, 32, 7067-7079	4.4	6
26	The Influence of Summer Deep Soil Temperature on Early Winter Snow Conditions in Eurasia in the NCEP CFSv2 Simulation. *Journal of Geophysical Research D: Atmospheres*, **2019**, 124, 9062-9077	4.4	6
25	Climate change and sectors of the surface water cycle In CMIP5 projections. *Hydrology and Earth System Sciences*, **2014**, 18, 5317-5329	5.5	6

24	Observed and simulated water and energy budget components at SCAN sites in the lower Mississippi Basin. *Hydrological Processes*, **2011**, 25, 634-649	3.3	6
23	Climatological influence of Eurasian winter surface conditions on the Asian and Indo-Pacific summer circulation in the NCEP CFSv2 seasonal reforecasts. *International Journal of Climatology*, **2019**, 39, 3431-3453	3.5	5
22	Pattern and trend analysis of temperature in a set of seasonal ensemble simulations. *Geophysical Research Letters*, **2004**, 31, n/a-n/a	4.9	5
21	Projections of the shifting envelope of Water cycle variability. *Climatic Change*, **2016**, 136, 587-600	4.5	4
20	A New Method for Exploring Coupled Land Atmosphere Dynamics. *Journal of Hydrometeorology*, **2009**, 10, 1040-1050	3.7	4
19	A Technique for Seamless Forecast Construction and Validation from Weather to Monthly Time Scales. *Monthly Weather Review*, **2020**, 148, 3589-3603	2.4	4
18	Semi-Coupling of a Field-Scale Resolving Land-Surface Model and WRF-LES to Investigate the Influence of Land-Surface Heterogeneity on Cloud Development. *Journal of Advances in Modeling Earth Systems*, **2021**, 13, e2021MS002602	7.1	4
17	Drought self-propagation in drylands due to land-atmosphere feedbacks.. *Nature Geoscience*, **2022**, 15, 262-268	18.3	4
16	Effect of land model ensemble versus coupled model ensemble on the simulation of precipitation climatology and variability. *Theoretical and Applied Climatology*, **2018**, 134, 793-800	3	3
15	Comparing GCM-generated land surface water budgets using a simple common framework. *Water Science and Application*, **2001**, 95-105		3
14	Distinct Impacts of Land Use and Land Management on Summer Temperatures. *Frontiers in Earth Science*, **2020**, 8,	3.5	3
13	Diagnosing nonlinearities in the local and remote responses to partial Amazon deforestation. *Journal of Geophysical Research D: Atmospheres*, **2016**, 121, 9033-9047	4.4	3
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