Randal D Koster

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26,684 163 177 73 h-index g-index citations papers 6.61 186 30,200 5.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
177	MERRA: NASAE Modern-Era Retrospective Analysis for Research and Applications. <i>Journal of Climate</i> , 2011 , 24, 3624-3648	4.4	3548
176	The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). Journal of Climate, 2017 , Volume 30, 5419-5454	4.4	2815
175	Regions of strong coupling between soil moisture and precipitation. <i>Science</i> , 2004 , 305, 1138-40	33.3	1939
174	The Soil Moisture Active Passive (SMAP) Mission. <i>Proceedings of the IEEE</i> , 2010 , 98, 704-716	14.3	1845
173	A catchment-based approach to modeling land surface processes in a general circulation model: 1. Model structure. <i>Journal of Geophysical Research</i> , 2000 , 105, 24809-24822		572
172	GLACE: The Global LandAtmosphere Coupling Experiment. Part I: Overview. <i>Journal of Hydrometeorology</i> , 2006 , 7, 590-610	3.7	525
171	Validity of the temperature reconstruction from water isotopes in ice cores. <i>Journal of Geophysical Research</i> , 1997 , 102, 26471-26487		456
170	On the cause of the 1930s Dust Bowl. <i>Science</i> , 2004 , 303, 1855-9	33.3	434
169	Bias reduction in short records of satellite soil moisture. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	409
168	On the Nature of Soil Moisture in Land Surface Models. <i>Journal of Climate</i> , 2009 , 22, 4322-4335	4.4	387
167	Modeling the land surface boundary in climate models as a composite of independent vegetation stands. <i>Journal of Geophysical Research</i> , 1992 , 97, 2697		370
166	Assessment and Enhancement of MERRA Land Surface Hydrology Estimates. <i>Journal of Climate</i> , 2011 , 24, 6322-6338	4.4	365
165	Variance and Predictability of Precipitation at Seasonal-to-Interannual Timescales. <i>Journal of Hydrometeorology</i> , 2000 , 1, 26-46	3.7	341
164	Soil Moisture Memory in Climate Models. <i>Journal of Hydrometeorology</i> , 2001 , 2, 558-570	3.7	327
163	Performance Metrics for Soil Moisture Retrievals and Application Requirements. <i>Journal of Hydrometeorology</i> , 2010 , 11, 832-840	3.7	308
162	GLACE: The Global LandAtmosphere Coupling Experiment. Part II: Analysis. <i>Journal of Hydrometeorology</i> , 2006 , 7, 611-625	3.7	287
161	Contribution of land surface initialization to subseasonal forecast skill: First results from a multi-model experiment. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	280

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160	Extended versus Ensemble Kalman Filtering for Land Data Assimilation. <i>Journal of Hydrometeorology</i> , 2002 , 3, 728-740	3.7	278
159	Causes of Long-Term Drought in the U.S. Great Plains. <i>Journal of Climate</i> , 2004 , 17, 485-503	4.4	277
158	Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. <i>Journal of Climate</i> , 1997 , 10, 1194-1215	4.4	271
157	Comparison and assimilation of global soil moisture retrievals from the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) and the Scanning Multichannel Microwave Radiometer (SMMR). <i>Journal of Geophysical Research</i> , 2007 , 112,		271
156	Simulations of the HDO and H2 18O atmospheric cycles using the NASA GISS general circulation model: The seasonal cycle for present-day conditions. <i>Journal of Geophysical Research</i> , 1987 , 92, 14739		268
155	The Interplay between Transpiration and Runoff Formulations in Land Surface Schemes Used with Atmospheric Models. <i>Journal of Climate</i> , 1997 , 10, 1578-1591	4.4	264
154	A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009 , 22, 5251-5272	4.4	260
153	Global Soil Moisture from Satellite Observations, Land Surface Models, and Ground Data: Implications for Data Assimilation. <i>Journal of Hydrometeorology</i> , 2004 , 5, 430-442	3.7	246
152	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) RedArkansas River basin experiment:: 1. Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 1998 , 19, 115-135	4.2	243
151	The Second Phase of the Global LandAtmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. <i>Journal of Hydrometeorology</i> , 2011 , 12, 805-822	3.7	242
150	A Simple Framework for Examining the Interannual Variability of Land Surface Moisture Fluxes. Journal of Climate, 1999 , 12, 1911-1917	4.4	220
149	Soil Moisture Memory in AGCM Simulations: Analysis of Global LandAtmosphere Coupling Experiment (GLACE) Data. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1090-1112	3.7	212
148	Glacial-interglacial changes in moisture sources for greenland: influences on the ice core record of climate. <i>Science</i> , 1994 , 263, 508-11	33.3	199
147	A catchment-based approach to modeling land surface processes in a general circulation model: 2. Parameter estimation and model demonstration. <i>Journal of Geophysical Research</i> , 2000 , 105, 24823-248	338	198
146	Land Surface Precipitation in MERRA-2. Journal of Climate, 2017, 30, 1643-1664	4.4	195
145	Skill in streamflow forecasts derived from large-scale estimates of soil moisture and snow. <i>Nature Geoscience</i> , 2010 , 3, 613-616	18.3	195
144	Observational evidence that soil moisture variations affect precipitation. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	183
143	Do Global Models Properly Represent the Feedback between Land and Atmosphere?. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1177-1198	3.7	180

The hydrosphere State (hydros) Satellite mission: an Earth system pathfinder for global mapping of 142 soil moisture and land freeze/thaw. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 2184-2195 179 Water isotopes in precipitation:. Quaternary Science Reviews, 2000, 19, 363-379 3.9 179 Global assimilation of satellite surface soil moisture retrievals into the NASA Catchment land 140 4.9 173 surface model. Geophysical Research Letters, 2005, 32, The Rhfle-Aggregation Land Surface Scheme Intercomparison Project: An Overview. Journal of 161 139 4.4 Climate, 2004, 17, 187-208 Realistic Initialization of Land Surface States: Impacts on Subseasonal Forecast Skill. Journal of 138 161 3.7 Hydrometeorology, **2004**, 5, 1049-1063 An Agenda for Land Surface Hydrology Research and a Call for the Second International 6.1 160 137 Hydrological Decade. Bulletin of the American Meteorological Society, 1999, 80, 2043-2058 136 Assessment of MERRA-2 Land Surface Hydrology Estimates. Journal of Climate, 2017, 30, 2937-2960 159 A land surface data assimilation framework using the land information system: Description and 156 135 4.7 applications. Advances in Water Resources, 2008, 31, 1419-1432 Global sources of local precipitation as determined by the Nasa/Giss GCM. Geophysical Research 134 4.9 155 Letters, 1986, 13, 121-124 Role of Subsurface Physics in the Assimilation of Surface Soil Moisture Observations. Journal of 133 3.7 145 Hydrometeorology, **2009**, 10, 1534-1547 The 2010 Russian drought impact on satellite measurements of solar-induced chlorophyll fluorescence: Insights from modeling and comparisons with parameters derived from satellite 132 13.2 142 reflectances. Remote Sensing of Environment, 2015, 166, 163-177 Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ 131 3.7 139 Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645 Multimodel Ensemble Reconstruction of Drought over the Continental United States. Journal of 130 4.4 139 Climate, 2009, 22, 2694-2712 The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) 129 4.2 137 RedArkansas River basin experiment:. Global and Planetary Change, 1998, 19, 161-179 A Comparative Analysis of Two Land Surface Heterogeneity Representations. Journal of Climate, 128 4.4 135 **1992**, 5, 1379-1390 Northern Eurasian Heat Waves and Droughts. Journal of Climate, 2014, 27, 3169-3207 127 4.4 133 Assimilation of GRACE terrestrial water storage into a land surface model: Evaluation and potential 126 126 value for drought monitoring in western and central Europe. Journal of Hydrology, 2012, 446-447, 103-115 Snow Cover and Snow Mass Intercomparisons of General Circulation Models and Remotely Sensed 124 125 Datasets. *Journal of Climate*, **1996**, 9, 409-426

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124	Analyzing the Concurrence of Meteorological Droughts and Warm Periods, with Implications for the Determination of Evaporative Regime. <i>Journal of Climate</i> , 2009 , 22, 3331-3341	4.4	121
123	Stable water isotope behavior during the last glacial maximum: A general circulation model analysis. <i>Journal of Geophysical Research</i> , 1994 , 99, 25791		118
122	Global Meteorological Drought: A Synthesis of Current Understanding with a Focus on SST Drivers of Precipitation Deficits. <i>Journal of Climate</i> , 2016 , 29, 3989-4019	4.4	118
121	Assessing the Impact of Horizontal Error Correlations in Background Fields on Soil Moisture Estimation. <i>Journal of Hydrometeorology</i> , 2003 , 4, 1229-1242	3.7	112
120	Assimilation of Satellite-Derived Skin Temperature Observations into Land Surface Models. <i>Journal of Hydrometeorology</i> , 2010 , 11, 1103-1122	3.7	109
119	The Impact of Detailed Snow Physics on the Simulation of Snow Cover and Subsurface Thermodynamics at Continental Scales. <i>Journal of Hydrometeorology</i> , 2001 , 2, 228-242	3.7	108
118	Impact of Land Surface Initialization on Seasonal Precipitation and Temperature Prediction. <i>Journal of Hydrometeorology</i> , 2003 , 4, 408-423	3.7	106
117	Soil Moisture, Snow, and Seasonal Streamflow Forecasts in the United States. <i>Journal of Hydrometeorology</i> , 2012 , 13, 189-203	3.7	105
116	Relative contributions of land and ocean processes to precipitation variability. <i>Journal of Geophysical Research</i> , 1995 , 100, 13775		101
115	Comparing the Degree of LandAtmosphere Interaction in Four Atmospheric General Circulation Models. <i>Journal of Hydrometeorology</i> , 2002 , 3, 363-375	3.7	100
114	Evaluating the utility of satellite soil moisture retrievals over irrigated areas and the ability of land data assimilation methods to correct for unmodeled processes. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 4463-4478	5.5	97
113	The Sensitivity of Surface Fluxes to Soil Water Content in Three Land Surface Schemes. <i>Journal of Hydrometeorology</i> , 2000 , 1, 121-134	3.7	95
112	Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parametrization Schemes. <i>Climate Dynamics</i> , 1999 , 15, 673-684	4.2	92
111	Soil moisture effects on seasonal temperature and precipitation forecast scores in Europe. <i>Climate Dynamics</i> , 2012 , 38, 349-362	4.2	91
110	The ISLSCP Initiative I Global Datasets: Surface Boundary Conditions and Atmospheric Forcings for Land-Atmosphere Studies. <i>Bulletin of the American Meteorological Society</i> , 1996 , 77, 1987-2005	6.1	80
109	The components of a BVATIscheme and their effects on a GCM's hydrological cycle. <i>Advances in Water Resources</i> , 1994 , 17, 61-78	4.7	80
108	The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998 , 19, 137-159	4.2	79
107	An updated treatment of soil texture and associated hydraulic properties in a global land modeling system. <i>Journal of Advances in Modeling Earth Systems</i> , 2014 , 6, 957-979	7.1	77

106	Contribution of soil moisture retrievals to land data assimilation products. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	74
105	Global Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using Assimilation Diagnostics. <i>Journal of Hydrometeorology</i> , 2017 , 18, 3217-3237	3.7	73
104	Simulations of the HDO and H2 18O atmospheric cycles using the NASA GISS general circulation model: Sensitivity experiments for present-day conditions. <i>Journal of Geophysical Research</i> , 1991 , 96, 7495		73
103	The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2043-2060	6.1	72
102	A reconsideration of the initial conditions used for stable water isotope models. <i>Journal of Geophysical Research</i> , 1996 , 101, 22933-22938		67
101	Potential Predictability of Long-Term Drought and Pluvial Conditions in the U.S. Great Plains. Journal of Climate, 2008 , 21, 802-816	4.4	65
100	Land Surface Controls on Hydroclimatic Means and Variability. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1604-1620	3.7	63
99	Sources of Sahel Precipitation for Simulated Drought and Rainy Seasons. <i>Journal of Climate</i> , 1989 , 2, 1438-1446	4.4	62
98	Precipitation Estimation Using L-Band and C-Band Soil Moisture Retrievals. <i>Water Resources Research</i> , 2016 , 52, 7213-7225	5.4	61
97	Confronting weather and climate models with observational data from soil moisture networks over the United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1049-1067	3.7	60
96	Continental water recycling and H218O concentrations. <i>Geophysical Research Letters</i> , 1993 , 20, 2215-22	1/8 9	58
95	Impacts of Local Soil Moisture Anomalies on the Atmospheric Circulation and on Remote Surface Meteorological Fields during Boreal Summer: A Comprehensive Analysis over North America. <i>Journal of Climate</i> , 2016 , 29, 7345-7364	4.4	57
94	The Influence of Land Surface Moisture Retention on Precipitation Statistics. <i>Journal of Climate</i> , 1996 , 9, 2551-2567	4.4	54
93	Global relationships among traditional reflectance vegetation indices (NDVI and NDII), evapotranspiration (ET), and soil moisture variability on weekly timescales. <i>Remote Sensing of Environment</i> , 2018 , 219, 339-352	13.2	53
92	Version 4 of the SMAP Level-4 Soil Moisture Algorithm and Data Product. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3106-3130	7.1	52
91	Impact of snow darkening via dust, black carbon, and organic carbon on boreal spring climate in the Earth system. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5485-5503	4.4	51
90	Deuterium excess in Greenland snow: Analysis with simple and complex models. <i>Journal of Geophysical Research</i> , 1998 , 103, 8947-8953		51
89	Origin of July Antarctic precipitation and its influence on deuterium content: a GCM analysis. <i>Climate Dynamics</i> , 1992 , 7, 195-203	4.2	51

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88	The origin of Antarctic precipitation: a modelling approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 19-36	3.3	50	
87	Assessment of MERRA-2 Land Surface Energy Flux Estimates. <i>Journal of Climate</i> , 2018 , 31, 671-691	4.4	48	
86	Influence of dust and black carbon on the snow albedo in the NASA Goddard Earth Observing System version 5 land surface model. <i>Journal of Geophysical Research</i> , 2011 , 116,		48	
85	Influence of the Interannual Variability of Vegetation on the Surface Energy Balance Global Sensitivity Study. <i>Journal of Hydrometeorology</i> , 2002 , 3, 617-629	3.7	47	
84	Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. <i>Journal of Hydrometeorology</i> , 2018 , 19, 375-392	3.7	46	
83	On the Role of SST Forcing in the 2011 and 2012 Extreme U.S. Heat and Drought: A Study in Contrasts. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1255-1273	3.7	46	
82	Relevance of time-varying and time-invariant retrieval error sources on the utility of spaceborne soil moisture products. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	46	
81	The origin of Antarctic precipitation: a modelling approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 19-36	3.3	46	
80	Rebound in Atmospheric Predictability and the Role of the Land Surface. <i>Journal of Climate</i> , 2012 , 25, 4744-4749	4.4	44	
79	Large Scale Influences on Summertime Extreme Precipitation in the Northeastern United States. Journal of Hydrometeorology, 2016 , Volume 17, 3045-3061	3.7	42	
78	A Mechanism for LandAtmosphere Feedback Involving Planetary Wave Structures. <i>Journal of Climate</i> , 2014 , 27, 9290-9301	4.4	41	
77	African Easterly Jet: Structure and Maintenance. <i>Journal of Climate</i> , 2009 , 22, 4459-4480	4.4	41	
76	A Revised Framework for Analyzing Soil Moisture Memory in Climate Data: Derivation and Interpretation. <i>Journal of Hydrometeorology</i> , 2012 , 13, 404-412	3.7	40	
75	Validity of the isotopic thermometer in central Antarctica: Limited impact of glacial precipitation seasonality and moisture origin. <i>Geophysical Research Letters</i> , 2000 , 27, 2677-2680	4.9	40	
74	Flash Drought as Captured by Reanalysis Data: Disentangling the Contributions of Precipitation Deficit and Excess Evapotranspiration. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1241-1258	3.7	37	
73	The Physical Mechanisms by Which the Leading Patterns of SST Variability Impact U.S. Precipitation. <i>Journal of Climate</i> , 2010 , 23, 1815-1836	4.4	37	
72	Timescales of Land Surface Evapotranspiration Response. <i>Journal of Climate</i> , 1997 , 10, 559-566	4.4	35	
71	GEOS-S2S Version 2: The GMAO High Resolution Coupled Model and Assimilation System for Seasonal Prediction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031767	4.4	34	

70	Sensitivity of Latent Heat Flux from PILPS Land-Surface Schemes to Perturbations of Surface Air Temperature. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 1909-1927	2.1	33
69	The role of soil moisture initialization in subseasonal and seasonal streamflow prediction (A) case study in Sri Lanka. <i>Advances in Water Resources</i> , 2008 , 31, 1333-1343	4.7	32
68	MEETING SUMMARIES. Bulletin of the American Meteorological Society, 2007, 88, 1625-1634	6.1	30
67	Inferring Soil Moisture Memory from Streamflow Observations Using a Simple Water Balance Model. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1773-1790	3.7	28
66	Suggestions in the Observational Record of LandAtmosphere Feedback Operating at Seasonal Time Scales. <i>Journal of Hydrometeorology</i> , 2004 , 5, 567-572	3.7	28
65	The global geochemistry of bomb-produced tritium: General circulation model compared to available observations and traditional interpretations. <i>Journal of Geophysical Research</i> , 1989 , 94, 18305		28
64	Improved Hydrological Simulation Using SMAP Data: Relative Impacts of Model Calibration and Data Assimilation. <i>Journal of Hydrometeorology</i> , 2018 , 19, 727-741	3.7	27
63	Phenological versus meteorological controls on land-atmosphere water and carbon fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 14-29	3.7	27
62	Seasonal precipitation timing and ice core records. <i>Science</i> , 1995 , 269, 247-8	33.3	27
61	Impact of Subsurface Temperature Variability on Surface Air Temperature Variability: An AGCM Study. <i>Journal of Hydrometeorology</i> , 2008 , 9, 804-815	3.7	25
60	Representation of subsurface storm flow and a more responsive water table in a TOPMODEL-based hydrology model. <i>Water Resources Research</i> , 2002 , 38, 31-1-31-16	5.4	24
59	Effect of a Canopy Interception Reservoir on Hydrological Persistence in a General Circulation Model. <i>Journal of Climate</i> , 1995 , 8, 1917-1922	4.4	24
58	Revisiting a hydrological analysis framework with International Satellite Land Surface Climatology Project Initiative 2 rainfall, net radiation, and runoff fields. <i>Journal of Geophysical Research</i> , 2006 , 111,		22
57	Intercomparison of Soil Moisture Memory in Two Land Surface Models. <i>Journal of Hydrometeorology</i> , 2003 , 4, 1134-1146	3.7	22
56	A One-Dimensional Interactive Soil-Atmosphere Model for Testing Formulations of Surface Hydrology. <i>Journal of Climate</i> , 1990 , 3, 593-606	4.4	22
55	Estimating Basin-Scale Water Budgets with SMAP Soil Moisture Data. <i>Water Resources Research</i> , 2018 , 54, 4228-4244	5.4	22
54	Hydroclimatic Variability and Predictability: A Survey of Recent Research. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3777-3798	5.5	21
53	Impact of soil moisture initialization on boreal summer subseasonal forecasts: mid-latitude surface air temperature and heat wave events. <i>Climate Dynamics</i> . 2019 . 52, 1695-1709	4.2	21

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52	Estimation of Predictability with a Newly Derived Index to Quantify Similarity among Ensemble Members. <i>Monthly Weather Review</i> , 2007 , 135, 2674-2687	2.4	20	
51	Distinct Hydrological Signatures in Observed Historical Temperature Fields. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1061-1075	3.7	19	
50	Simulation of high-latitude hydrological processes in the TorneRalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003 , 38, 55-71	4.2	19	
49	Hydroclimatic Controls on the Means and Variability of Vegetation Phenology and Carbon Uptake. <i>Journal of Climate</i> , 2014 , 27, 5632-5652	4.4	18	
48	AGCM Biases in Evaporation Regime: Impacts on Soil Moisture Memory and LandAtmosphere Feedback. <i>Journal of Hydrometeorology</i> , 2005 , 6, 656-669	3.7	18	
47	The Offline Validation of Land Surface Models. <i>Journal of the Meteorological Society of Japan</i> , 1999 , 77, 257-263	2.8	18	
46	SMAP Level 4 Surface and Root Zone Soil Moisture 2016 ,		17	
45	A Data-Driven Approach for Daily Real-Time Estimates and Forecasts of Near-Surface Soil Moisture. <i>Journal of Hydrometeorology</i> , 2017 , 18, 837-843	3.7	16	
44	Efficiency Space⊕A Framework for Evaluating Joint Evaporation and Runoff Behavior*. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 393-396	6.1	16	
43	Impacts of Snow Darkening by Deposition of Light-Absorbing Aerosols on Hydroclimate of Eurasia During Boreal Spring and Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8441-84	16¶·4	16	
42	Recent Advances in Land Data Assimilation at the NASA Global Modeling and Assimilation Office 2009 , 407-428		16	
41	The NASA Hydrological Forecast System for Food and Water Security Applications. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1007-E1025	6.1	15	
40	PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2130-2162	7.1	15	
39	Permafrost variability over the Northern Hemisphere based on the MERRA-2 reanalysis. <i>Cryosphere</i> , 2019 , 13, 2087-2110	5.5	14	
38	Interactive Vegetation Phenology, Soil Moisture, and Monthly Temperature Forecasts. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1456-1465	3.7	13	
37	Soil Moisture Initialization Error and Subgrid Variability of Precipitation in Seasonal Streamflow Forecasting. <i>Journal of Hydrometeorology</i> , 2014 , 15, 69-88	3.7	13	
36	Drought-Induced Warming in the Continental United States under Different SST Regimes. <i>Journal of Climate</i> , 2009 , 22, 5385-5400	4.4	13	
35	Tendency Bias Correction in Coupled and Uncoupled Global Climate Models with a Focus on Impacts over North America. <i>Journal of Climate</i> , 2019 , 32, 639-661	4.4	13	

34	Phase Locking of the Boreal Summer Atmospheric Response to Dry Land Surface Anomalies in the Northern Hemisphere. <i>Journal of Climate</i> , 2019 , 32, 1081-1099	4.4	11
33	Seasonal variation of landlitmosphere coupling strength over the West African monsoon region in an atmospheric general circulation model. <i>Hydrological Sciences Journal</i> , 2013 , 58, 1276-1286	3.5	11
32	The pattern across the continental United States of evapotranspiration variability associated with water availability. <i>Frontiers in Earth Science</i> , 2015 , 3,	3.5	11
31	Influence of Land Surface Fluxes on Precipitation: Inferences from Simulations Forced with Four ARMITART SCM Datasets. <i>Journal of Climate</i> , 2001 , 14, 3666-3691	4.4	11
30	A catchment-based land surface model for GCMS and the framework for its evaluation. <i>Physics and Chemistry of the Earth</i> , 1999 , 24, 769-773		11
29	Attribution of the 2017 Northern High Plains Drought. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S25-S29	6.1	9
28	Prediction Skill of the 2012 U.S. Great Plains Flash Drought in Subseasonal Experiment (SubX) Models. <i>Journal of Climate</i> , 2020 , 33, 6229-6253	4.4	9
27	Improving early warning of drought-driven food insecurity in southern Africa using operational hydrological monitoring and forecasting products. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 1187-1201	3.9	8
26	Mechanisms Associated with Daytime and Nighttime Heat Waves over the Contiguous United States. <i>Journal of Applied Meteorology and Climatology</i> , 2020 , 59, 1865-1882	2.7	7
25	On the Development and Demise of the Fall 2019 Southeast U.S. Flash Drought: Links to an Extreme Positive IOD. <i>Journal of Climate</i> , 2021 , 34, 1701-1723	4.4	7
24	The impact of spatiotemporal variability in atmospheric CO₂ concentration on global terrestrial carbon fluxes. <i>Biogeosciences</i> , 2018 , 15, 5635-5652	4.6	7
23	Evaluation and enhancement of permafrost modeling with the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2771-2795	7.1	6
22	The Contributions of Gauge-Based Precipitation and SMAP Brightness Temperature Observations to the Skill of the SMAP Level-4 Soil Moisture Product. <i>Journal of Hydrometeorology</i> , 2021 , 22, 405-424	3.7	6
21	Evaluating the utility of satellite soil moisture retrievals over irrigated areas and the ability of land data assimilation methods to correct for unmodeled processes		5
20	Investigation of the 2016 Eurasia heat wave as an event of the recent warming. <i>Environmental Research Letters</i> , 2020 , 15, 114018	6.2	5
19	A Systematic Approach to Assessing the Sources and Global Impacts of Errors in Climate Models. <i>Journal of Climate</i> , 2019 , 32, 8301-8321	4.4	4
18	Using Observed Spatial Correlation Structures to Increase the Skill of Subseasonal Forecasts. <i>Monthly Weather Review</i> , 2008 , 136, 1923-1930	2.4	4
17	Multiple spaceborne water cycle observations would aid modeling. <i>Eos</i> , 2006 , 87, 149	1.5	4

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16	Length Scales of Hydrological Variability as Inferred from SMAP Soil Moisture Retrievals. <i>Journal of Hydrometeorology</i> , 2019 , 20, 2129-2146	3.7	3
15	Impact of a Regional U.S. Drought on Land and Atmospheric Carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005599	3.7	3
14	Correction to Influence of dust and black carbon on the snow albedo in the NASA Goddard Earth Observing System version 5 land surface model <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		3
13	Comparing GCM-generated land surface water budgets using a simple common framework. <i>Water Science and Application</i> , 2001 , 95-105		3
12	A Modeling Study of the Causes and Predictability of the Spring 2011 Extreme US Weather Activity. Journal of Climate, 2016 , 29, 7869-7887	4.4	3
11	An Observation-Driven Approach to Improve Vegetation Phenology in a Global Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002083	7.1	2
10	Exceptional Warmth in the Northern Hemisphere during January through March of 2020: The Roles of Unforced and Forced Modes of Atmospheric Variability. <i>Journal of Climate</i> , 2022 , 1-56	4.4	2
9	Using a Simple Water Balance Framework to Quantify the Impact of Soil Moisture Initialization on Subseasonal Evapotranspiration and Air Temperature Forecasts. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1705-1722	3.7	2
8	North American Drought and Links to Northern Eurasia. <i>Geophysical Monograph Series</i> , 2017 , 195-221	1.1	1
7	Improving Short-term Climate Forecasts with Satellite Observations 2006,		1
6	Seasonal Variability in the Mechanisms Behind the 2020 Siberian Heatwaves. <i>Journal of Climate</i> , 2022 , 1-44	4.4	1
5	Tropical peatland hydrology simulated with a global land surface model		1
4	Asymmetry in Subseasonal Surface Air Temperature Forecast Error with Respect to Soil Moisture Initialization. <i>Journal of Hydrometeorology</i> , 2021 , 22, 2505-2519	3.7	1
3	Skillful Seasonal Forecasts of Land Carbon Uptake in Northern Mid- and High Latitudes. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	1
2	The response of the Amazon ecosystem to the photosynthetically active radiation fields: integrating impacts of biomass burning aerosol and clouds in the NASA GEOS Earth system model. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14177-14197	6.8	0
1	Efficiency SpaceEA Framework for Evaluating Joint Evaporation and Runoff Behavior. <i>Bulletin of the American Meteorological Society</i> , 2016 , 2016, 393-396	6.1	_