Christa D Peters-Lidard

List of Publications by Year
in descending order

170 papers	10,490 citations	28190 55 h-index	38300 95 g-index
189 all docs	189 docs citations	189 times ranked	9219 citing authors

#	Article	IF	Citations
1	Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. Water Resources Research, 2011, 47, .	1.7	634
2	Land information system: An interoperable framework for high resolution land surface modeling. Environmental Modelling and Software, 2006, 21, 1402-1415.	1.9	517
3	The Effect of Soil Thermal Conductivity Parameterization on Surface Energy Fluxes and Temperatures. Journals of the Atmospheric Sciences, 1998, 55, 1209-1224.	0.6	326
4	Component analysis of errors in satelliteâ€based precipitation estimates. Journal of Geophysical Research, 2009, 114, .	3.3	313
5	A land data assimilation system for sub-Saharan Africa food and water security applications. Scientific Data, 2017, 4, 170012.	2.4	282
6	Estimating soil moisture at the watershed scale with satellite-based radar and land surface models. Canadian Journal of Remote Sensing, 2004, 30, 805-826.	1.1	267
7	Multitemporal Analysis of TRMM-Based Satellite Precipitation Products for Land Data Assimilation Applications. Journal of Hydrometeorology, 2007, 8, 1165-1183.	0.7	265
8	A global map of uncertainties in satelliteâ€based precipitation measurements. Geophysical Research Letters, 2010, 37, .	1.5	226
9	The Plumbing of Land Surface Models: Benchmarking Model Performance. Journal of Hydrometeorology, 2015, 16, 1425-1442.	0.7	191
10	Diagnosing the Sensitivity of Local Landâ€“Atmosphere Coupling via the Soil Moistureâ€“Boundary Layer Interaction. Journal of Hydrometeorology, 2011, 12, 766-786.	0.7	188
11	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
12	A land surface data assimilation framework using the land information system: Description and applications. Advances in Water Resources, 2008, 31, 1419-1432.	1.7	182
13	Role of Subsurface Physics in the Assimilation of Surface Soil Moisture Observations. Journal of Hydrometeorology, 2009, 10, 1534-1547.	0.7	178
14	The evolution of process-based hydrologic models: historical challenges and the collective quest for physical realism. Hydrology and Earth System Sciences, 2017, 21, 3427-3440.	1.9	177
15	Assimilation of Remotely Sensed Soil Moisture and Snow Depth Retrievals for Drought Estimation. Journal of Hydrometeorology, 2014, 15, 2446-2469.	0.7	167
16	A Modeling and Observational Framework for Diagnosing Local Landâ€“Atmosphere Coupling on Diurnal Time Scales. Journal of Hydrometeorology, 2009, 10, 577-599.	0.7	166
17	An integrated hydrologic modeling and data assimilation framework. Computer, 2008, 41, 52-59.	1.2	150
18	A soil-vegetation-atmosphere transfer scheme for modeling spatially variable water and energy balance processes. Journal of Geophysical Research, 1997, 102, 4303-4324.	3.3	139

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19	Assimilation of Gridded GRACE Terrestrial Water Storage Estimates in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2016, 17, 1951-1972.	0.7	137
20	Evaluation of GSMaP Precipitation Estimates over the Contiguous United States. Journal of Hydrometeorology, 2010, 11, 566-574.	0.7	136
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. Hydrology and Earth System Sciences, 2015, 19, 4463-4478.	1.9	134
22	A Multiscale Modeling System: Developments, Applications, and Critical Issues. Bulletin of the American Meteorological Society, 2009, 90, 515-534.	1.7	128
23	A comparison of methods for a priori bias correction in soil moisture data assimilation. Water Resources Research, 2012, 48, .	1.7	126
24	An evaluation of NEXRAD precipitation estimates in complex terrain. Journal of Geophysical Research, 1999, 104, 19691-19703.	3.3	125
25	Recognizing the Famine Early Warning Systems Network: Over 30 Years of Drought Early Warning Science Advances and Partnerships Promoting Global Food Security. Bulletin of the American Meteorological Society, 2019, 100, 1011-1027.	1.7	111
26	Using remotely-sensed estimates of soil moisture to infer soil texture and hydraulic properties across a semi-arid watershed. Remote Sensing of Environment, 2007, 110, 79-97.	4.6	109
27	Highâ€resolution NUâ€WRF simulations of a deep convectiveâ€precipitation system during MC3E: Further improvements and comparisons between Goddard microphysics schemes and observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 1278-1305.	1.2	97
28	Spatial interpolation of precipitation in a dense gauge network for monsoon storm events in the southwestern United States. Water Resources Research, 2008, 44, .	1.7	96
29	An Evaluation of Microwave Land Surface Emissivities Over the Continental United States to Benefit GPM-Era Precipitation Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 378-398.	2.7	95
30	Integrated modeling of aerosol, cloud, precipitation and land processes at satellite-resolved scales. Environmental Modelling and Software, 2015, 67, 149-159.	1.9	95
31	WRF Simulations of the 20â€“22 January 2007 Snow Events over Eastern Canada: Comparison with In Situ and Satellite Observations. Journal of Applied Meteorology and Climatology, 2010, 49, 2246-2266.	0.6	93
32	Assimilating satellite-based snow depth and snow cover products for improving snow predictions in Alaska. Advances in Water Resources, 2013, 54, 208-227.	1.7	93
33	The impact of microphysical schemes on hurricane intensity and track. Asia-Pacific Journal of Atmospheric Sciences, 2011, 47, 1-16.	1.3	92
34	Evaluating ESA CCI soil moisture in East Africa. International Journal of Applied Earth Observation and Geoinformation, 2016, 48, 96-109.	1.4	92
35	Information theoretic evaluation of satellite soil moisture retrievals. Remote Sensing of Environment, 2018, 204, 392-400.	4.6	89
36	Advances in landslide nowcasting: evaluation of a global and regional modeling approach. Environmental Earth Sciences, 2012, 66, 1683-1696.	1.3	87

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37	Diagnosing the Nature of Landâ€“Atmosphere Coupling: A Case Study of Dry/Wet Extremes in the U.S. Southern Great Plains. Journal of Hydrometeorology, 2013, 14, 3-24.	0.7	86
38	Benchmarking NLDAS-2 Soil Moisture and Evapotranspiration to Separate Uncertainty Contributions. Journal of Hydrometeorology, 2016, 17, 745-759.	0.7	82
39	Systematic anomalies over inland water bodies in satelliteâ€based precipitation estimates. Geophysical Research Letters, 2007, 34, .	1.5	80
40	Estimating evapotranspiration with land data assimilation systems. Hydrological Processes, 2011, 25, 3979-3992.	1.1	78
41	An analytical method for predicting surface soil moisture from rainfall observations. Water Resources Research, 2003, 39, .	1.7	76
42	Global Distribution of Extreme Precipitation and High-Impact Landslides in 2010 Relative to Previous Years. Journal of Hydrometeorology, 2012, 13, 1536-1551.	0.7	74
43	Prospects for Advancing Drought Understanding, Monitoring, and Prediction. Journal of Hydrometeorology, 2015, 16, 1636-1657.	0.7	72
44	An integrated high-resolution hydrometeorological modeling testbed using LIS and WRF. Environmental Modelling and Software, 2008, 23, 169-181.	1.9	71
45	Real-Time Bias Reduction for Satellite-Based Precipitation Estimates. Journal of Hydrometeorology, 2010, 11, 1275-1285.	0.7	71
46	Assimilation of Remotely Sensed Leaf Area Index into the Noah-MP Land Surface Model: Impacts on Water and Carbon Fluxes and States over the Continental United States. Journal of Hydrometeorology, 2019, 20, 1359-1377.	0.7	70
47	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
48	Effect of land cover on atmospheric processes and air quality over the continental United States â€“ a NASA Unified WRF (NU-WRF) model study. Atmospheric Chemistry and Physics, 2013, 13, 6207-6226.	1.9	67
49	NCA-LDAS Land Analysis: Development and Performance of a Multisensor, Multivariate Land Data Assimilation System for the National Climate Assessment. Journal of Hydrometeorology, 2019, 20, 1571-1593.	0.7	67
50	Water Balance in the Amazon Basin from a Land Surface Model Ensemble. Journal of Hydrometeorology, 2014, 15, 2586-2614.	0.7	66
51	Scaling, similarity, and the fourth paradigm for hydrology. Hydrology and Earth System Sciences, 2017, 21, 3701-3713.	1.9	63
52	Representation of Soil Moisture Feedbacks during Drought in NASA Unified WRF (NU-WRF). Journal of Hydrometeorology, 2013, 14, 360-367.	0.7	62
53	Impacts of High-Resolution Land Surface Initialization on Regional Sensible Weather Forecasts from the WRF Model. Journal of Hydrometeorology, 2008, 9, 1249-1266.	0.7	61
54	A re-examination of modeled and measured soil moisture spatial variability and its implications for land surface modeling. Advances in Water Resources, 2001, 24, 1069-1083.	1.7	60

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55	Introducing multisensor satellite radiance-based evaluation for regional Earth System modeling. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8450-8475.	1.2	58
56	On the Relationship Between Mean and Variance of Soil Moisture Fields¹. Journal of the American Water Resources Association, 2008, 44, 235-242.	1.0	57
57	Impacts of aerosolâ€“monsoon interaction on rainfall and circulation over Northern India and the Himalaya Foothills. Climate Dynamics, 2017, 49, 1945-1960.	1.7	57
58	Evaluating Clouds in Long-Term Cloud-Resolving Model Simulations with Observational Data. Journals of the Atmospheric Sciences, 2007, 64, 4153-4177.	0.6	56
59	Estimating water discharge from large radar altimetry datasets. Hydrology and Earth System Sciences, 2013, 17, 923-933.	1.9	56
60	A comparison of geographical information systems-based algorithms for computing the TOPMODEL topographic index. Water Resources Research, 2004, 40, .	1.7	55
61	Land surface Verification Toolkit (LVT) â€“ a generalized framework for land surface model evaluation. Geoscientific Model Development, 2012, 5, 869-886.	1.3	54
62	Simulation of a Flash Flooding Storm at the Steep Edge of the Himalayas*. Journal of Hydrometeorology, 2014, 15, 212-228.	0.7	51
63	A remote sensing observatory for hydrologic sciences: A genesis for scaling to continental hydrology. Water Resources Research, 2006, 42, .	1.7	49
64	Impact of Urban Growth on Surface Climate: A Case Study in Oran, Algeria. Journal of Applied Meteorology and Climatology, 2009, 48, 217-231.	0.6	49
65	The Goddard Cumulus Ensemble model (GCE): Improvements and applications for studying precipitation processes. Atmospheric Research, 2014, 143, 392-424.	1.8	49
66	Appropriate scale of soil moisture retrieval from high resolution radar imagery for bare and minimally vegetated soils. Remote Sensing of Environment, 2008, 112, 403-414.	4.6	48
67	Quantifying the Added Value of Snow Cover Area Observations in Passive Microwave Snow Depth Data Assimilation. Journal of Hydrometeorology, 2015, 16, 1736-1741.	0.7	46
68	The Land surface Data Toolkit (LDT v7.2) â€“ a data fusion environment for land data assimilation systems. Geoscientific Model Development, 2018, 11, 3605-3621.	1.3	45
69	Tracing hydrologic model simulation error as a function of satellite rainfall estimation bias components and land use and land cover conditions. Water Resources Research, 2012, 48, .	1.7	44
70	Tradeâ€off between cost and accuracy in largeâ€scale surface water dynamic modeling. Water Resources Research, 2017, 53, 4942-4955.	1.7	44
71	Implementation of an aerosolâ€“cloudâ€microphysicsâ€“radiation coupling into the NASA unified WRF: Simulation results for the 6â€“7 August 2006 AMMA special observing period. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 2158-2175.	1.0	43
72	Performance Metrics, Error Modeling, and Uncertainty Quantification. Monthly Weather Review, 2016, 144, 607-613.	0.5	42

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73	Benchmarking and Process Diagnostics of Land Models. Journal of Hydrometeorology, 2018, 19, 1835-1852.	0.7	41
74	A new model of bi-directional ammonia exchange between the atmosphere and biosphere: Ammonia stomatal compensation point. Agricultural and Forest Meteorology, 2009, 149, 263-280.	1.9	39
75	Upper Blue Nile basin water budget from a multi-model perspective. Journal of Hydrology, 2017, 555, 535-546.	2.3	39
76	Precipitation intensity and variation during MC3E: A numerical modeling study. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7199-7218.	1.2	38
77	Development of high-resolution dynamic dust source function - A case study with a strong dust storm in a regional model. Atmospheric Environment, 2017, 159, 11-25.	1.9	38
78	Quantifying the change in soil moisture modeling uncertainty from remote sensing observations using Bayesian inference techniques. Water Resources Research, 2012, 48, .	1.7	37
79	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
80	Impact of Land Model Calibration on Coupled Landâ€“Atmosphere Prediction. Journal of Hydrometeorology, 2013, 14, 1373-1400.	0.7	36
81	A Real-Time MODIS Vegetation Product for Land Surface and Numerical Weather Prediction Models. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1772-1786.	2.7	36
82	Impact of Soil Moisture Assimilation on Land Surface Model Spinup and Coupled Landâ€“Atmosphere Prediction. Journal of Hydrometeorology, 2016, 17, 517-540.	0.7	36
83	A remote sensing-based tool for assessing rainfall-driven hazards. Environmental Modelling and Software, 2017, 90, 34-54.	1.9	36
84	Acute Water-Scarcity Monitoring for Africa. Water (Switzerland), 2019, 11, 1968.	1.2	36
85	Role of precipitation uncertainty in the estimation of hydrologic soil properties using remotely sensed soil moisture in a semiarid environment. Water Resources Research, 2008, 44, .	1.7	35
86	Calculating Crop Water Requirement Satisfaction in the West Africa Sahel with Remotely Sensed Soil Moisture. Journal of Hydrometeorology, 2015, 16, 295-305.	0.7	35
87	Basinâ€scale assessment of the land surface water budget in the National Centers for Environmental Prediction operational and research NLDASâ€2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2750-2779.	1.2	35
88	Similarity Assessment of Land Surface Model Outputs in the North American Land Data Assimilation System. Water Resources Research, 2017, 53, 8941-8965.	1.7	34
89	The Goddard multi-scale modeling system with unified physics. Annales Geophysicae, 2009, 27, 3055-3064.	0.6	33
90	Parameter Sensitivity of the Noah-MP Land Surface Model with Dynamic Vegetation. Journal of Hydrometeorology, 2018, 19, 815-830.	0.7	33

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91	High-Resolution Numerical Simulation of the Extreme Rainfall Associated with Typhoon Morakot. Part I: Comparing the Impact of Microphysics and PBL Parameterizations with Observations. Terrestrial, Atmospheric and Oceanic Sciences, 2011, 22, 673.	0.3	32
92	Quantifying Uncertainties in Land-Surface Microwave Emissivity Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 829-840.	2.7	32
93	Blending satelliteâ€based snow depth products with in situ observations for streamflow predictions in the Upper Colorado River Basin. Water Resources Research, 2015, 51, 1182-1202.	1.7	32
94	Development of a parameterization for simulating the urban temperature hazard using satellite observations in climate model. Natural Hazards, 2007, 43, 257-271.	1.6	31
95	Decomposition of sources of errors in seasonal streamflow forecasting over the U.S. Sunbelt. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,809.	1.2	31
96	The NASA Hydrological Forecast System for Food and Water Security Applications. Bulletin of the American Meteorological Society, 2020, 101, E1007-E1025.	1.7	31
97	RAINGAGE NETWORK DESIGN USING NEXRAD PRECIPITATION ESTIMATES1. Journal of the American Water Resources Association, 2002, 38, 1393-1407.	1.0	30
98	On the Relationship Between Temperature and MODIS Snow Cover Retrieval Errors in the Western U.S.. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2010, 3, 132-140.	2.3	30
99	Impact of radiation frequency, precipitation radiative forcing, and radiation column aggregation on convection-permitting West African monsoon simulations. Climate Dynamics, 2020, 55, 193-213.	1.7	30
100	Assimilation of vegetation optical depth retrievals from passive microwave radiometry. Hydrology and Earth System Sciences, 2020, 24, 3431-3450.	1.9	30
101	Towards a soil moisture drought monitoring system for South Korea. Journal of Hydrology, 2020, 589, 125176.	2.3	29
102	A GIS framework for surface-layer soil moisture estimation combining satellite radar measurements and land surface modeling with soil physical property estimation. Environmental Modelling and Software, 2007, 22, 891-898.	1.9	27
103	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
104	Multiscale Evaluation of the Improvements in Surface Snow Simulation through Terrain Adjustments to Radiation. Journal of Hydrometeorology, 2013, 14, 220-232.	0.7	25
105	Distributed assimilation of satelliteâ€based snow extent for improving simulated streamflow in mountainous, dense forests: An example over the DMIP2 western basins. Water Resources Research, 2012, 48, .	1.7	23
106	The NASA-Goddard Multi-scale Modeling Frameworkâ€“Land Information System: Global land/atmosphere interaction with resolved convection. Environmental Modelling and Software, 2013, 39, 103-115.	1.9	23
107	Regionalizing Africa: Patterns of Precipitation Variability in Observations and Global Climate Models. Journal of Climate, 2016, 29, 9027-9043.	1.2	23
108	Attribution of Flux Partitioning Variations between Land Surface Models over the Continental U.S.. Remote Sensing, 2018, 10, 751.	1.8	23

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109	Evaluation of V05 Precipitation Estimates from GPM Constellation Radiometers Using KuPR as the Reference. Journal of Hydrometeorology, 2020, 21, 705-728.	0.7	23
110	A Comparison of Microwave Window Channel Retrieved and Forward-Modeled Emissivities Over the U.S. Southern Great Plains. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2395-2412.	2.7	22
111	Operational hydrological forecasting during the IPHEx-IOP campaign â€“ Meet the challenge. Journal of Hydrology, 2016, 541, 434-456.	2.3	22
112	Evaluating hourly rainfall characteristics over the U.S. Great Plains in dynamically downscaled climate model simulations using NASAâ€Unified WRF. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7371-7384.	1.2	22
113	Satellite Gravimetry Improves Seasonal Streamflow Forecast Initialization in Africa. Water Resources Research, 2020, 56, e2019WR026259.	1.7	21
114	Role of forcing uncertainty and background model error characterization in snow data assimilation. Hydrology and Earth System Sciences, 2017, 21, 2637-2647.	1.9	20
115	Advancing Drought Understanding, Monitoring, and Prediction. Bulletin of the American Meteorological Society, 2013, 94, ES186-ES188.	1.7	19
116	An examination of methods for estimating land surface microwave emissivity. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,114.	1.2	19
117	Performance of the Goddard multiscale modeling framework with Goddard ice microphysical schemes. Journal of Advances in Modeling Earth Systems, 2016, 8, 66-95.	1.3	19
118	The 2019â€“2020 Australian Drought and Bushfires Altered the Partitioning of Hydrological Fluxes. Geophysical Research Letters, 2021, 48, .	1.5	19
119	Impact of Surface Albedo Assimilation on Snow Estimation. Remote Sensing, 2020, 12, 645.	1.8	18
120	Assessing the Impact of L-Band Observations on Drought and Flood Risk Estimation: A Decision-Theoretic Approach in an OSSE Environment. Journal of Hydrometeorology, 2014, 15, 2140-2156.	0.7	17
121	NCA-LDAS: Overview and Analysis of Hydrologic Trends for the National Climate Assessment. Journal of Hydrometeorology, 2019, 20, 1595-1617.	0.7	17
122	Improving early warning of drought-driven food insecurity in southern Africa using operational hydrological monitoring and forecasting products. Natural Hazards and Earth System Sciences, 2020, 20, 1187-1201.	1.5	17
123	Estimating storm areal average rainfall intensity in field experiments. Water Resources Research, 1994, 30, 2119-2131.	1.7	16
124	High-performance land surface modeling with a Linux cluster. Computers and Geosciences, 2008, 34, 1492-1504.	2.0	16
125	Using Air Temperature to Quantitatively Predict the MODIS Fractional Snow Cover Retrieval Errors over the Continental United States. Journal of Hydrometeorology, 2014, 15, 551-562.	0.7	16
126	Basinâ€scale assessment of the land surface energy budget in the National Centers for Environmental Prediction operational and research NLDASâ€2 systems. Journal of Geophysical Research D: Atmospheres, 2016, 121, 196-220.	1.2	16

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127	Impact of Assimilated Precipitation-Sensitive Radiances on the NU-WRF Simulation of the West African Monsoon. Monthly Weather Review, 2017, 145, 3881-3900.	0.5	16
128	100 Years of Progress in Hydrology. Meteorological Monographs, 2018, 59, 25.1-25.51.	5.0	16
129	Hydrologic and Agricultural Earth Observations and Modeling for the Water-Food Nexus. Frontiers in Environmental Science, 2019, 7, .	1.5	16
130	Comprehensive Evaluation of the Variable Infiltration Capacity (VIC) Model in the North American Land Data Assimilation System. Journal of Hydrometeorology, 2018, 19, 1853-1879.	0.7	15
131	Microphysics and Radiation Effect of Dust on Saharan Air Layer: An HS3 Case Study. Monthly Weather Review, 2018, 146, 1813-1835.	0.5	15
132	Advancing Precipitation Estimation, Prediction, and Impact Studies. Bulletin of the American Meteorological Society, 2020, 101, E1584-E1592.	1.7	14
133	U.S. CONTRIBUTIONS TO THE CEOP. Bulletin of the American Meteorological Society, 2006, 87, 927-940.	1.7	12
134	A Semi-Empirical Model for Computing Land Surface Emissivity in the Microwave Region. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1935-1946.	2.7	12
135	Improving Overland Precipitation Retrieval with Brightness Temperature Temporal Variation. Journal of Hydrometeorology, 2017, 18, 2355-2383.	0.7	12
136	Assimilation of Vegetation Conditions Improves the Representation of Drought over Agricultural Areas. Journal of Hydrometeorology, 2021, 22, 1085-1098.	0.7	12
137	Towards effective drought monitoring in the Middle East and North AfricaÂ(MENA) region: implications from assimilating leaf area index and soil moisture into the Noah-MP land surface model for Morocco. Hydrology and Earth System Sciences, 2022, 26, 2365-2386.	1.9	12
138	Regional Flux Estimation in a Convective Boundary Layer Using a Conservation Approach. Journal of Hydrometeorology, 2000, 1, 170-182.	0.7	11
139	Earth Observations and Integrative Models in Support of Food and Water Security. Remote Sensing in Earth Systems Sciences, 2019, 2, 18-38.	1.1	11
140	Sensitivity of CONUS Summer Rainfall to the Selection of Cumulus Parameterization Schemes in NU-WRF Seasonal Simulations. Journal of Hydrometeorology, 2017, 18, 1689-1706.	0.7	11
141	A Central Asia hydrologic monitoring dataset for food and water security applications in Afghanistan. Earth System Science Data, 2022, 14, 3115-3135.	3.7	11
142	Evaluation of NU-WRF Rainfall Forecasts for IFloodS. Journal of Hydrometeorology, 2016, 17, 1317-1335.	0.7	9
143	The Role of Low-Level, Terrain-Induced Jets in Rainfall Variability in Tigrisâ€“Euphrates Headwaters. Journal of Hydrometeorology, 2017, 18, 819-835.	0.7	9
144	A Highâ€Resolution Land Data Assimilation System Optimized for the Western United States. Journal of the American Water Resources Association, 2021, 57, 692-710.	1.0	9

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145	Inverse Method for Estimating the Spatial Variability of Soil Particle Size Distribution from Observed Soil Moisture. Journal of Hydrologic Engineering - ASCE, 2010, 15, 931-938.	0.8	8
146	Calibration to Improve Forward Model Simulation of Microwave Emissivity at GPM Frequencies Over the U.S. Southern Great Plains. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 1103-1117.	2.7	8
147	Evaluation of Rainfallâ€Snowfall Separation Performance in Remote Sensing Datasets. Geophysical Research Letters, 2021, 48, e2021GL094180.	1.5	8
148	Indicators of climate change impacts on the water cycle and water management. Climatic Change, 2021, 165, 1.	1.7	7
149	Scaling, Similarity, and the Fourth Paradigm for Hydrology. , 2017, 21, 3701-3713.		7
150	The Instantaneous Retrieval of Precipitation Over Land by Temporal Variation at 19ÂGHz. Journal of Geophysical Research D: Atmospheres, 2018, 123, 9279-9295.	1.2	6
151	Bias correction to improve the skill of summer precipitation forecasts over the contiguous United States by the North American multiâ€model ensemble system. Atmospheric Science Letters, 2018, 19, e818.	0.8	5
152	Invigorating Hydrological Research Through Journal Publications. Water Resources Research, 2020, 56, .	1.7	5
153	Cold Season Performance of the NU-WRF Regional Climate Model in the Great Lakes Region. Journal of Hydrometeorology, 2021, , .	0.7	5
154	A prototype physical database for passive microwave retrievals of precipitation over the US Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2015, 120, 10,465.	1.2	4
155	Invigorating hydrological research through journal publications. Hydrological Sciences Journal, 2018, 63, 1113-1117.	1.2	4
156	A NASAâ€“Air Force Precipitation Analysis for Near-Real-Time Operations. Journal of Hydrometeorology, 2022, 23, 965-989.	0.7	4
157	Joint editorial: Invigorating hydrological research through journal publications. Hydrology and Earth System Sciences, 2018, 22, 5735-5739.	1.9	3
158	Introducing and evaluating the Climate Hazards center IMErg with Stations (CHIMES) - Timely station-enhanced Integrated Multi-satellitE Retrievals for Global Precipitation Measurement. Bulletin of the American Meteorological Society, 2021, , 1-52.	1.7	3
159	Raindrop Signature from Microwave Radiometer Over Deserts. Geophysical Research Letters, 2020, 47, e2020GL088656.	1.5	2
160	Research to Advance Drought Monitoring and Prediction Capabilities. Drought and Water Crises, 2017, , 127-140.	0.1	2
161	Terrestrial water and energy systems for water resource applications. , 2004, , .		1
162	Daily Precipitation Frequency Distributions Impacts on Land-Surface Simulations of CONUS. Frontiers in Water, 2021, 3, .	1.0	1

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163	Joint Editorial Invigorating Hydrological Research through Journal Publications. Journal of Hydrology and Hydromechanics, 2018, 66, 257-260.	0.7	1
164	Land surface microwave emissivity dynamics: Observations, analysis and modeling. , 2014, , .		0
165	Comment on â€˜Shang S. 2012. Calculating actual crop evapotranspiration under soil water stress conditions with appropriate numerical methods and time step. Hydrological Processes 26: 3338-3343. DOI: 10.1002/hyp.8405â€™. Hydrological Processes, 2014, 28, 3833-3840.	1.1	0
166	Joint Editorial: Invigorating hydrological research through journal publications. Hydrology Research, 2018, 49, iii-ix.	1.1	0
167	Invigorating Hydrological Research through Journal Publications. Journal of Hydrometeorology, 2018, 19, 1713-1719.	0.7	0
168	Joint Editorial: Invigorating Hydrological Research through Journal Publications. Vadose Zone Journal, 2018, 17, 180001ed.	1.3	0
169	Joint editorial: Invigorating hydrological research through journal publications. Proceedings of the International Association of Hydrological Sciences, 0, 380, 3-8.	1.0	0
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