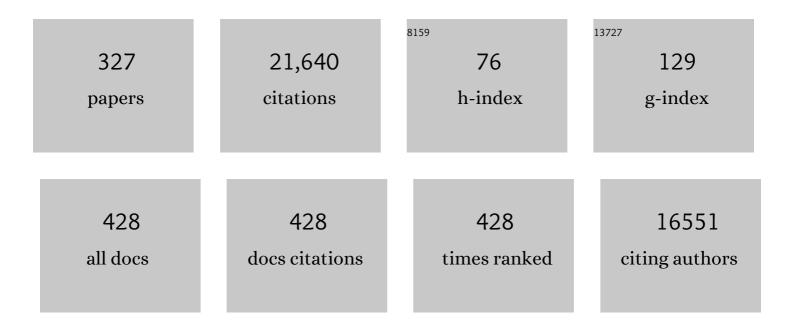
## L Ruby Leung

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Crucial Role of Mesoscale Convective Systems in the Vertical Mass, Water, and Energy Transports of the South Asian Summer Monsoon. Journal of Climate, 2022, 35, 91-108.	1.2	7
2	Representing Global Soil Erosion and Sediment Flux in Earth System Models. Journal of Advances in Modeling Earth Systems, 2022, 14, e2021MS002756.	1.3	9
3	Advances in hexagon mesh-based flow direction modeling. Advances in Water Resources, 2022, 160, 104099.	1.7	9
4	Trends in surface equivalent potential temperature: A more comprehensive metric for global warming and weather extremes. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	53
5	Urbanization Impact on Regional Climate and Extreme Weather: Current Understanding, Uncertainties, and Future Research Directions. Advances in Atmospheric Sciences, 2022, 39, 819-860.	1.9	94
6	An Observationally Trained Markov Model for MJO Propagation. Geophysical Research Letters, 2022, 49, .	1.5	1
7	Conservation of Dry Air, Water, and Energy in CAM and Its Potential Impact on Tropical Rainfall. Journal of Climate, 2022, 35, 2895-2917.	1.2	2
8	Modeling the Joint Effects of Vegetation Characteristics and Soil Properties on Ecosystem Dynamics in a Panama Tropical Forest. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	8
9	A simple framework to characterize land aridity based on surface energy partitioning regimes. Environmental Research Letters, 2022, 17, 034008.	2.2	3
10	The Madden–Julian Oscillation in the Energy Exascale Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	1
11	Threat by marine heatwaves to adaptive large marine ecosystems in an eddy-resolving model. Nature Climate Change, 2022, 12, 179-186.	8.1	32
12	A new large-scale suspended sediment model and its application over the United States. Hydrology and Earth System Sciences, 2022, 26, 665-688.	1.9	14
13	Median bed-material sediment particle size across rivers in the contiguous US. Earth System Science Data, 2022, 14, 929-942.	3.7	9
14	Abrupt emissions reductions during COVID-19 contributed to record summer rainfall in China. Nature Communications, 2022, 13, 959.	5.8	35
15	Exploratory Precipitation Metrics: Spatiotemporal Characteristics, Process-Oriented, and Phenomena-Based. Journal of Climate, 2022, 35, 3659-3686.	1.2	11
16	Increases in Future AR Count and Size: Overview of the ARTMIP Tier 2 CMIP5/6 Experiment. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	35
17	Interpreting machine learning prediction of fire emissions and comparison with FireMIP process-based models. Atmospheric Chemistry and Physics, 2022, 22, 3445-3468.	1.9	6
18	Precipitationâ€Moisture Coupling Over Tropical Oceans: Sequential Roles of Shallow, Deep, and Mesoscale Convective Systems. Geophysical Research Letters, 2022, 49, .	1.5	6

#	Article	IF	CITATIONS
19	An Overview of ARTMIP's Tier 2 Reanalysis Intercomparison: Uncertainty in the Detection of Atmospheric Rivers and Their Associated Precipitation. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	34
20	Datasets for characterizing extreme events relevant to hydrologic design over the conterminous United States. Scientific Data, 2022, 9, 154.	2.4	5
21	Mesoscale Convective Systems Simulated by a Highâ€Resolution Global Nonhydrostatic Model Over the United States and China. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	6
22	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. Geoscientific Model Development, 2022, 15, 2881-2916.	1.3	17
23	Characterizing the Impact of Atmospheric Rivers on Aerosols in the Western U.S Geophysical Research Letters, 2022, 49, .	1.5	3
24	Impacts of Subâ€Grid Topographic Representations on Surface Energy Balance and Boundary Conditions in the E3SM Land Model: A Case Study in Sierra Nevada. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	14
25	Mesoscale Convective Systems in a Superparameterized E3SM Simulation at High Resolution. Journal of Advances in Modeling Earth Systems, 2022, 14, .	1.3	11
26	North China Plain as a hot spot of ozone pollution exacerbated by extreme high temperatures. Atmospheric Chemistry and Physics, 2022, 22, 4705-4719.	1.9	29
27	Impacts of Largeâ€Scale Urbanization and Irrigation on Summer Precipitation in the Midâ€Atlantic Region of the United States. Geophysical Research Letters, 2022, 49, .	1.5	6
28	Appreciation of Peer Reviewers for 2021. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	0
29	Impact of Rainfall on Tropical Cycloneâ€Induced Sea Surface Cooling. Geophysical Research Letters, 2022, 49, .	1.5	10
30	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO <sub>2</sub> in Tropical Forests in the Energy Exascale Earth System Model v1. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	1
31	The uncertain role of rising atmospheric CO2 on global plant transpiration. Earth-Science Reviews, 2022, 230, 104055.	4.0	16
32	Modeling impacts of ice-nucleating particles from marine aerosols on mixed-phase orographic clouds during 2015 ACAPEX field campaign. Atmospheric Chemistry and Physics, 2022, 22, 6749-6771.	1.9	4
33	Effective radiative forcing of anthropogenic aerosols in E3SM version 1: historical changes, causality, decomposition, and parameterization sensitivities. Atmospheric Chemistry and Physics, 2022, 22, 9129-9160.	1.9	16
34	Atmospheric river representation in the Energy Exascale Earth System Model (E3SM) version 1.0. Geoscientific Model Development, 2022, 15, 5461-5480.	1.3	1
35	Neutral Mode Dominates the Forced Global and Regional Surface Temperature Response in the Past and Future. Geophysical Research Letters, 2022, 49, .	1.5	1
36	Spatial heterogeneity effects on land surface modeling of water and energy partitioning. Geoscientific Model Development, 2022, 15, 5489-5510.	1.3	4

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37	Using a surrogate-assisted Bayesian framework to calibrate the runoff-generation scheme in the Energy Exascale Earth System Model (E3SM) v1. Geoscientific Model Development, 2022, 15, 5021-5043.	1.3	3
38	Intensified Humid Heat Events Under Global Warming. Geophysical Research Letters, 2021, 48, e2020GL091462.	1.5	17
39	Doubleâ€ITCZ as an Emergent Constraint for Future Precipitation Over Mediterranean Climate Regions in the North Hemisphere. Geophysical Research Letters, 2021, 48, e2020GL091569.	1.5	12
40	Future Changes in the Great Plains Low‣evel Jet Governed by Seasonally Dependent Pattern Changes in the North Atlantic Subtropical High. Geophysical Research Letters, 2021, 48, e2020GL090356.	1.5	12
41	Significant Land Contributions to Interannual Predictability of East Asian Summer Monsoon Rainfall. Earth's Future, 2021, 9, e2020EF001762.	2.4	18
42	Validation and Sensitivity Analysis of a 1â€D Lake Model Across Global Lakes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033417.	1.2	15
43	Winter Precipitation Changes in California Under Global Warming: Contributions of CO <sub>2</sub> , Uniform SST Warming, and SST Change Patterns. Geophysical Research Letters, 2021, 48, e2020GL091736.	1.5	4
44	The Leading Modes of Asian Summer Monsoon Variability as Pulses of Atmospheric Energy Flow. Geophysical Research Letters, 2021, 48, e2020GL091629.	1.5	6
45	Meteorological Environments Associated With California Wildfires and Their Potential Roles in Wildfire Changes During 1984–2017. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033180.	1.2	19
46	The Relationship between Precipitation and Precipitable Water in CMIP6 Simulations and Implications for Tropical Climatology and Change. Journal of Climate, 2021, 34, 1587-1600.	1.2	16
47	A high-resolution unified observational data product of mesoscale convective systems and isolated deep convection in the United States for 2004–2017. Earth System Science Data, 2021, 13, 827-856.	3.7	15
48	A Global Highâ€Resolution Mesoscale Convective System Database Using Satelliteâ€Derived Cloud Tops, Surface Precipitation, and Tracking. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034202.	1.2	88
49	Representation of Plant Hydraulics in the Noahâ€MP Land Surface Model: Model Development and Multiscale Evaluation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002214.	1.3	50
50	Evaluation of Mesoscale Convective Systems in Climate Simulations: Methodological Development and Results from MPAS-CAM over the United States. Journal of Climate, 2021, 34, 2611-2633.	1.2	40
51	Increased extreme rains intensify erosional nitrogen and phosphorus fluxes to the northern Gulf of Mexico in recent decades. Environmental Research Letters, 2021, 16, 054080.	2.2	12
52	Disentangling the Effects of Vapor Pressure Deficit and Soil Water Availability on Canopy Conductance in a Seasonal Tropical Forest During the 2015 El Niño Drought. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035004.	1.2	17
53	Characterizing Uncertainties in Ground "Truth―of Precipitation Over Complex Terrain Through Highâ€Resolution Numerical Modeling. Geophysical Research Letters, 2021, 48, e2020GL091950.	1.5	13
54	Linking Flood Frequency With Mesoscale Convective Systems in the US. Geophysical Research Letters, 2021, 48, e2021GL092546.	1.5	16

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55	Emergence of seasonal delay of tropical rainfall during 1979–2019. Nature Climate Change, 2021, 11, 605-612.	8.1	25
56	ldentifying Key Drivers of Wildfires in the Contiguous US Using Machine Learning and Game Theory Interpretation. Earth's Future, 2021, 9, e2020EF001910.	2.4	31
57	Intercomparison of Thermal Regime Algorithms in 1â€D Lake Models. Water Resources Research, 2021, 57, e2020WR028776.	1.7	2
58	Convectionâ€Permitting Hindcasting of Diurnal Variation of Meiâ€yu Rainfall Over East China With a Global Variableâ€Resolution Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034823.	1.2	6
59	Subtropical Eastern North Pacific SST Bias in Earth System Models. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017359.	1.0	4
60	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. Geoscientific Model Development, 2021, 14, 4465-4494.	1.3	31
61	Summer Mean and Extreme Precipitation Over the Midâ€Atlantic Region: Climatological Characteristics and Contributions From Different Precipitation Types. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035045.	1.2	7
62	Global Mesoscale Convective System Latent Heating Characteristics from GPM Retrievals and an MCS Tracking Dataset. Journal of Climate, 2021, 34, 8599-8613.	1.2	8
63	Crucial Roles of Eastward Propagating Environments in the Summer MCS Initiation Over the U.S. Great Plains. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034991.	1.2	16
64	A Simple Lagrangian Parcel Model for the Initiation of Summer-time Mesoscale Convective Systems over the Central United States. Journals of the Atmospheric Sciences, 2021, , .	0.6	1
65	Multiple Metrics Informed Projections of Future Precipitation in China. Geophysical Research Letters, 2021, 48, e2021GL093810.	1.5	8
66	Appreciation of Peer Reviewers for 2020. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034920.	1.2	0
67	Mesoscale Convective Systems Dominate the Energetics of the South Asian Summer Monsoon Onset. Geophysical Research Letters, 2021, 48, e2021GL094873.	1.5	8
68	An oceanic pathway for Madden–Julian Oscillation influence on Maritime Continent Tropical Cyclones. Npj Climate and Atmospheric Science, 2021, 4, .	2.6	5
69	Seasonally dependent future changes in the US Midwest hydroclimate and extremes. Journal of Climate, 2021, , 1-35.	1.2	5
70	A parameterization of sub-grid topographical effects on solar radiation in the E3SM Land Model (version 1.0): implementation and evaluation over the Tibetan Plateau. Geoscientific Model Development, 2021, 14, 6273-6289.	1.3	36
71	Early warm-season mesoscale convective systems dominate soil moisture–precipitation feedback for summer rainfall in central United States. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
72	HyRiver: Hydroclimate Data Retriever. Journal of Open Source Software, 2021, 6, 3175.	2.0	8

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73	Uncertainty in El Niño-like warming and California precipitation changes linked by the Interdecadal Pacific Oscillation. Nature Communications, 2021, 12, 6484.	5.8	15
74	Multiscale Simulation of Precipitation Over East Asia by Variable Resolution CAMâ€MPAS. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002656.	1.3	12
75	Extreme metrics from large ensembles: investigating the effects of ensemble size on their estimates. Earth System Dynamics, 2021, 12, 1427-1501.	2.7	8
76	Urbanization Amplifies Nighttime Heat Stress on Warmer Days Over the US. Geophysical Research Letters, 2021, 48, .	1.5	29
77	Spatial pattern of lake evaporation increases under global warming linked to regional hydroclimate change. Communications Earth & Environment, 2021, 2, .	2.6	12
78	A substantial role of soil erosion in the land carbon sink and its future changes. Global Change Biology, 2020, 26, 2642-2655.	4.2	30
79	Aerosols in the E3SM Version 1: New Developments and Their Impacts on Radiative Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001851.	1.3	68
80	Evaluating nextâ€generation intensity–duration–frequency curves for design flood estimates in the snowâ€dominated western United States. Hydrological Processes, 2020, 34, 1255-1268.	1.1	14
81	Response of Landfalling Atmospheric Rivers on the U.S. West Coast to Local Sea Surface Temperature Perturbations. Geophysical Research Letters, 2020, 47, e2020GL089254.	1.5	8
82	Climate change impacts on wind power generation. Nature Reviews Earth & Environment, 2020, 1, 627-643.	12.2	120
83	Contrasting Phase Changes of Precipitation Annual Cycle Between Land and Ocean Under Global Warming. Geophysical Research Letters, 2020, 47, e2020GL090327.	1.5	19
84	Appreciation of Peer Reviewers for 2019. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032611.	1.2	0
85	Characterizing Tropical Cyclones in the Energy Exascale Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002024.	1.3	20
86	DPSIR-ESA Vulnerability Assessment (DEVA) Framework: Synthesis, Foundational Overview, and Expert Case Studies. Transactions of the ASABE, 2020, 63, 741-752.	1.1	7
87	Comparison of Equilibrium Climate Sensitivity Estimates From Slab Ocean, 150‥ear, and Longer Simulations. Geophysical Research Letters, 2020, 47, e2020GL088852.	1.5	16
88	Enhanced Predictability of Eastern North Pacific Tropical Cyclone Activity Using the ENSO Longitude Index. Geophysical Research Letters, 2020, 47, e2020GL088849.	1.5	6
89	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystemâ€Climate Responses to Historical Changes in Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001766.	1.3	65
90	Contrasting Recent and Future ITCZ Changes From Distinct Tropical Warming Patterns. Geophysical Research Letters, 2020, 47, e2020GL089846.	1.5	12

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91	An Introduction to the E3SM Special Collection: Goals, Science Drivers, Development, and Analysis. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001821.	1.3	43
92	Nonlinear effect of compound extreme weather events on ozone formation over the United States. Weather and Climate Extremes, 2020, 30, 100285.	1.6	13
93	Global Irrigation Characteristics and Effects Simulated by Fully Coupled Land Surface, River, and Water Management Models in E3SM. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002069.	1.3	16
94	The pantropical response of soil moisture to El Niño. Hydrology and Earth System Sciences, 2020, 24, 2303-2322.	1.9	11
95	Potential Impacts of Assimilating All-Sky Satellite Infrared Radiances on Convection-Permitting Analysis and Prediction of Tropical Convection. Monthly Weather Review, 2020, 148, 3203-3224.	0.5	21
96	Impact of Dust-Cloud-Radiation-Precipitation Dynamical Feedback on Subseasonal-to-Seasonal Variability of the Asian Summer Monsoon in Global Variable-Resolution Simulations With MPAS-CAM5. Frontiers in Earth Science, 2020, 8, .	0.8	13
97	Responses and impacts of atmospheric rivers to climate change. Nature Reviews Earth & Environment, 2020, 1, 143-157.	12.2	171
98	Watershed delineation on a hexagonal mesh grid. Environmental Modelling and Software, 2020, 128, 104702.	1.9	21
99	Spatiotemporal Characteristics and Propagation of Summer Extreme Precipitation Events Over United States: A Complex Network Analysis. Geophysical Research Letters, 2020, 47, e2020GL088185.	1.5	26
100	Exploring Topographyâ€Based Methods for Downscaling Subgrid Precipitation for Use in Earth System Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031456.	1.2	18
101	Significant Contribution of Mesoscale Overturning to Tropical Mass and Energy Transport Revealed by the ERA5 Reanalysis. Geophysical Research Letters, 2020, 47, e2019GL085333.	1.5	10
102	River Regulation Alleviates the Impacts of Climate Change on U.S. Thermoelectricity Production. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031618.	1.2	8
103	The Ongoing Need for High-Resolution Regional Climate Models: Process Understanding and Stakeholder Information. Bulletin of the American Meteorological Society, 2020, 101, E664-E683.	1.7	90
104	Observed Warm‧eason Characteristics of MCS and Nonâ€MCS Rainfall and Their Recent Changes in the Central United States. Geophysical Research Letters, 2020, 47, e2019GL086783.	1.5	23
105	Neutral modes of surface temperature and the optimal ocean thermal forcing for global cooling. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	6
106	Initial Results From the Superâ€Parameterized E3SM. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001863.	1.3	28
107	Effects of Groundwater Pumping on Ground Surface Temperature: A Regional Modeling Study in the North China Plain. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031764.	1.2	12
108	Dust dominates high-altitude snow darkening and melt over high-mountain Asia. Nature Climate Change, 2020, 10, 1045-1051.	8.1	101

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109	Pronounced Impact of Salinity on Rapidly Intensifying Tropical Cyclones. Bulletin of the American Meteorological Society, 2020, 101, E1497-E1511.	1.7	41
110	Benchmarking Simulated Precipitation in Earth System Models. Bulletin of the American Meteorological Society, 2020, 101, E814-E816.	1.7	10
111	Sensitivity of Surface Temperature to Oceanic Forcing via q-Flux Green's Function Experiments. Part III: Asymmetric Response to Warming and Cooling. Journal of Climate, 2020, 33, 1283-1297.	1.2	10
112	Understanding the Distinct Impacts of MCS and Non-MCS Rainfall on the Surface Water Balance in the Central United States Using a Numerical Water-Tagging Technique. Journal of Hydrometeorology, 2020, 21, 2343-2357.	0.7	11
113	Modeling the smoky troposphere of the southeast Atlantic: a comparison to ORACLES airborne observations from September of 2016. Atmospheric Chemistry and Physics, 2020, 20, 11491-11526.	1.9	32
114	Impacts of Insolation and Soil Moisture on the Seasonality of Interactions Between the Maddenâ€Julian Oscillation and Maritime Continent. Journal of Geophysical Research D: Atmospheres, 2020, 125, .	1.2	2
115	Impact of Atmospheric Rivers on Surface Hydrological Processes in Western U.S. Watersheds. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8896-8916.	1.2	44
116	Contrasting Spring and Summer Large-Scale Environments Associated with Mesoscale Convective Systems over the U.S. Great Plains. Journal of Climate, 2019, 32, 6749-6767.	1.2	64
117	A Zonal Migration of Monsoon Moisture Flux Convergence and the Strength of Maddenâ€Julian Oscillation Events. Geophysical Research Letters, 2019, 46, 8554-8562.	1.5	8
118	Development and Evaluation of an Ensembleâ€Based Data Assimilation System for Regional Reanalysis Over the Tibetan Plateau and Surrounding Regions. Journal of Advances in Modeling Earth Systems, 2019, 11, 2503-2522.	1.3	31
119	Modeling extreme precipitation over East China with a global variable-resolution modeling framework (MPASv5.2): impacts of resolution and physics. Geoscientific Model Development, 2019, 12, 2707-2726.	1.3	25
120	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. Journal of Advances in Modeling Earth Systems, 2019, 11, 4245-4287.	1.3	692
121	North American extreme precipitation events and related large-scale meteorological patterns: a review of statistical methods, dynamics, modeling, and trends. Climate Dynamics, 2019, 53, 6835-6875.	1.7	61
122	Parallel Distributed Hydrology Soil Vegetation Model (DHSVM) using global arrays. Environmental Modelling and Software, 2019, 122, 104533.	1.9	11
123	The DOE E3SM Coupled Model Version 1: Description and Results at High Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 4095-4146.	1.3	112
124	Incorporating Climate Nonstationarity and Snowmelt Processes in Intensity–Duration–Frequency Analyses with Case Studies in Mountainous Areas. Journal of Hydrometeorology, 2019, 20, 2331-2346.	0.7	10
125	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2377-2411.	1.3	168
126	Contributions of Extreme and Nonâ€Extreme Precipitation to California Precipitation Seasonality Changes Under Warming. Geophysical Research Letters, 2019, 46, 13470-13478.	1.5	29

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127	Flood Inundation Generation Mechanisms and Their Changes in 1953–2004 in Global Major River Basins. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11672-11692.	1.2	18
128	Extreme Wetâ€Bulb Temperatures in China: The Significant Role of Moisture. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11944-11960.	1.2	24
129	Substantial ozone enhancement over the North China Plain from increased biogenic emissions due to heat waves and land cover in summer 2017. Atmospheric Chemistry and Physics, 2019, 19, 12195-12207.	1.9	95
130	Characteristics of Ice Nucleating Particles in and Around California Winter Storms. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11530-11551.	1.2	17
131	A Multilayer Reservoir Thermal Stratification Module for Earth System Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 3265-3283.	1.3	12
132	Spatiotemporal Characteristics and Large-Scale Environments of Mesoscale Convective Systems East of the Rocky Mountains. Journal of Climate, 2019, 32, 7303-7328.	1.2	91
133	Modeling the contributions of Northern Hemisphere dust sources to dust outflow from East Asia. Atmospheric Environment, 2019, 202, 234-243.	1.9	39
134	Improving Land Surface Temperature Simulation in CoLM Over the Tibetan Plateau Through Fractional Vegetation Cover Derived From a Remotely Sensed Clumping Index and Model‧imulated Leaf Area Index. Journal of Geophysical Research D: Atmospheres, 2019, 124, 2620-2642.	1.2	18
135	Seesaw haze pollution in North China modulated by the sub-seasonal variability of atmospheric circulation. Atmospheric Chemistry and Physics, 2019, 19, 565-576.	1.9	53
136	Modeling the Impacts of Urbanization on Summer Thermal Comfort: The Role of Urban Land Use and Anthropogenic Heat. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6681-6697.	1.2	58
137	Impacts of Spatial Heterogeneity and Temporal Non-Stationarity on Intensity-Duration-Frequency Estimates—A Case Study in a Mountainous California-Nevada Watershed. Water (Switzerland), 2019, 11, 1296.	1.2	16
138	Mechanisms for an Amplified Precipitation Seasonal Cycle in the U.S. West Coast under Global Warming. Journal of Climate, 2019, 32, 4681-4698.	1.2	24
139	Regional Snow Parameters Estimation for Largeâ€Domain Hydrological Applications in the Western United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 5296-5313.	1.2	38
140	Next-Generation Intensity–Duration–Frequency Curves to Reduce Errors in Peak Flood Design. Journal of Hydrologic Engineering - ASCE, 2019, 24, .	0.8	21
141	Modeling analysis of the swell and wind-sea climate in the Salish Sea. Estuarine, Coastal and Shelf Science, 2019, 224, 289-300.	0.9	16
142	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	1.3	404
143	Impacts of climate change and emissions on atmospheric oxidized nitrogen deposition over East Asia. Atmospheric Chemistry and Physics, 2019, 19, 887-900.	1.9	14
144	On the variable effects of climate change on Pacific salmon. Ecological Modelling, 2019, 397, 95-106.	1.2	17

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145	Enhancing Hydrologic Design by Next-Generation Intensity-Duration-Frequency Curves Considering Snowmelt and Climate Nonstationarity. , 2019, , .		1
146	A Framework to Delineate Precipitationâ€Runoff Regimes: Precipitation Versus Snowpack in the Western United States. Geophysical Research Letters, 2019, 46, 13044-13053.	1.5	8
147	Trans-Pacific transport and evolution of aerosols: spatiotemporal characteristics and source contributions. Atmospheric Chemistry and Physics, 2019, 19, 12709-12730.	1.9	27
148	Quantifying Dissolved Organic Carbon Dynamics Using a Threeâ€Dimensional Terrestrial Ecosystem Model at High Spatialâ€Temporal Resolutions. Journal of Advances in Modeling Earth Systems, 2019, 11, 4489-4512.	1.3	10
149	The Atmospheric River Tracking Method Intercomparison Project (ARTMIP): Quantifying Uncertainties in Atmospheric River Climatology. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13777-13802.	1.2	126
150	Better monsoon precipitation in coupled climate models due to bias compensation. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	26
151	Observed Spatiotemporal Changes in the Mechanisms of Extreme Water Available for Runoff in the Western United States. Geophysical Research Letters, 2019, 46, 767-775.	1.5	26
152	Defining Uncertainties through Comparison of Atmospheric River Tracking Methods. Bulletin of the American Meteorological Society, 2019, 100, ES93-ES96.	1.7	17
153	Effects of Ensemble Configuration on Estimates of Regional Climate Uncertainties. Geophysical Research Letters, 2018, 45, 926-934.	1.5	4
154	Remote Drying in the North Atlantic as a Common Response to Precessional Changes and CO <sub>2</sub> Increase Over Land. Geophysical Research Letters, 2018, 45, 3615-3624.	1.5	15
155	How Do Microphysical Processes Influence Large cale Precipitation Variability and Extremes?. Geophysical Research Letters, 2018, 45, 1661-1667.	1.5	10
156	Nextâ€Generation Intensityâ€Durationâ€Frequency Curves for Hydrologic Design in Snowâ€Dominated Environments. Water Resources Research, 2018, 54, 1093-1108.	1.7	58
157	Role of Troposphere onvectionâ€Land Coupling in the Southwestern Amazon Precipitation Bias of the Community Earth System Model Version 1 (CESM1). Journal of Geophysical Research D: Atmospheres, 2018, 123, 8374-8399.	1.2	19
158	100 Years of Progress in Hydrology. Meteorological Monographs, 2018, 59, 25.1-25.51.	5.0	16
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160	Modeling Sediment Yield in Land Surface and Earth System Models: Model Comparison, Development, and Evaluation. Journal of Advances in Modeling Earth Systems, 2018, 10, 2192-2213.	1.3	30
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