

Xubin Zeng

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1126002/xubin-zeng-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

11,703
citations

52
h-index

103
g-index

252
ext. papers

13,508
ext. citations

4.3
avg, IF

6.26
L-index

#	Paper	IF	Citations
222	Improving the Estimate of Summer Daytime Planetary Boundary Layer Height Over Land From GPS Radio Occultation Data. <i>Geophysical Research Letters</i> , 2022 , 49, e2021GL096304	4.9	0
221	Ocean Surface Flux Algorithm Effects on Tropical Indo-Pacific Intraseasonal Precipitation. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	
220	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. <i>Geoscientific Model Development</i> , 2022 , 15, 2881-2916	6.3	0
219	CondiDiag1.0: a flexible online diagnostic tool for conditional sampling and budget analysis in the E3SM atmosphere model (EAM). <i>Geoscientific Model Development</i> , 2022 , 15, 3205-3231	6.3	0
218	One Saddle Point and Two Types of Sensitivities within the Lorenz 1963 and 1969 Models. <i>Atmosphere</i> , 2022 , 13, 753	2.7	1
217	Is Weather Chaotic? Coexisting Chaotic and Non-chaotic Attractors Within Lorenz Models. <i>Springer Proceedings in Complexity</i> , 2021 , 805-825	0.3	4
216	Large-eddy simulations of marine boundary-layer clouds associated with cold air outbreaks during the ACTIVATE campaign Part 1: Case setup and sensitivities to large-scale forcings. <i>Journals of the Atmospheric Sciences</i> , 2021 ,	2.1	1
215	Understanding water and energy fluxes in the Amazonia: Lessons from an observation-model intercomparison. <i>Global Change Biology</i> , 2021 , 27, 1802-1819	11.4	0
214	An Overview of Atmospheric Features Over the Western North Atlantic Ocean and North American East Coast Part 2: Circulation, Boundary Layer, and Clouds. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033423	4.4	8
213	Quantifying the Occurrence of Record Hot Years Through Normalized Warming Trends. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091626	4.9	3
212	Ocean Surface Flux Algorithm Effects on Earth System Model Energy and Water Cycles. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	1
211	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. <i>Geoscientific Model Development</i> , 2021 , 14, 4465-4494	6.3	4
210	Is Weather Chaotic?: Coexistence of Chaos and Order within a Generalized Lorenz Model. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E148-E158	6.1	10
209	The Amazon Water Cycle: Perspectives from Water Budget Closure and Ocean Salinity. <i>Journal of Climate</i> , 2021 , 34, 1439-1451	4.4	0
208	Cloud drop number concentrations over the western North Atlantic Ocean: seasonal cycle, aerosol interrelationships, and other influential factors. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 10499-10526	6.8	3
207	Characteristics and Causes of Extreme Snowmelt over the Conterminous United States. <i>Bulletin of the American Meteorological Society</i> , 2021 , 102, E1526-E1542	6.1	1
206	Attribution of Snowpack Errors to Simulated Temperature and Precipitation in E3SMv1 Over the Contiguous United States. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2021MS002640	7.1	0

205	On Assessing ERA5 and MERRA2 Representations of Cold-Air Outbreaks Across the Gulf Stream. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094364	4.9	2
204	Improving Time Step Convergence in an Atmosphere Model With Simplified Physics: The Impacts of Closure Assumption and Process Coupling. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001982	7.1	1982
203	Why Are There More Summer Afternoon Low Clouds Over the Tibetan Plateau Compared to Eastern China?. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089665	4.9	6
202	Increased Likelihood of Appreciable Afternoon Rainfall Over Wetter or Drier Soils Dependent Upon Atmospheric Dynamic Influence. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087779	4.9	8
201	Atmospheric Research Over the Western North Atlantic Ocean Region and North American East Coast: A Review of Past Work and Challenges Ahead. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031626	4.4	19
200	Stratocumulus cloud clearings: statistics from satellites, reanalysis models, and airborne measurements. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4637-4665	6.8	7
199	The Hurricane Harvey (2017) Texas Rainstorm: Synoptic Analysis and Sensitivity to Soil Moisture. <i>Monthly Weather Review</i> , 2020 , 148, 2479-2502	2.4	2
198	Use of Observing System Simulation Experiments in the United States. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1427-E1438	6.1	12
197	Evaluating the Preconditions of Two Remote Sensing SWE Retrieval Algorithms over the US. <i>Remote Sensing</i> , 2020 , 12, 2021	5	2
196	Highly sampled measurements in a controlled atmosphere at the Biosphere 2 Landscape Evolution Observatory. <i>Scientific Data</i> , 2020 , 7, 306	8.2	
195	Enhancing the Noah-MP Ecosystem Response to Droughts With an Explicit Representation of Plant Water Storage Supplied by Dynamic Root Water Uptake. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002062	7.1	12
194	The Intraseasonal and Interannual Variability of Arctic Temperature and Specific Humidity Inversions. <i>Atmosphere</i> , 2019 , 10, 214	2.7	5
193	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2089-2129	7.1	217
192	AEROSOL-CLOUD-METEOROLOGY INTERACTION AIRBORNE FIELD INVESTIGATIONS: Using Lessons Learned from the U.S. West Coast in the Design of ACTIVATE off the U.S. East Coast. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 1511-1528	6.1	26
191	Seasonal Prediction of North Atlantic Accumulated Cyclone Energy and Major Hurricane Activity. <i>Weather and Forecasting</i> , 2019 , 34, 221-232	2.1	4
190	Ocean Barrier Layers in the Energy Exascale Earth System Model. <i>Geophysical Research Letters</i> , 2019 , 46, 8234-8243	4.9	1
189	Further Improvement of Surface Flux Estimation in the Unstable Surface Layer Based on Large-Eddy Simulation Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 9839-9854	4.4	3
188	The Community Land Model Version 5: Description of New Features, Benchmarking, and Impact of Forcing Uncertainty. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 4245-4287	7.1	288

187	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , 2019 , 55, 1737-1772	5.4	161
186	Subtropical Marine Low Stratiform Cloud Deck Spatial Errors in the E3SMv1 Atmosphere Model. <i>Geophysical Research Letters</i> , 2019 , 46, 12598-12607	4.9	7
185	A Wet-Bulb Temperature-Based Rain-Snow Partitioning Scheme Improves Snowpack Prediction Over the Drier Western United States. <i>Geophysical Research Letters</i> , 2019 , 46, 13825-13835	4.9	11
184	Large and local-scale features associated with heat waves in the United States in reanalysis products and the NARCCAP model ensemble. <i>Climate Dynamics</i> , 2019 , 52, 1883-1901	4.2	7
183	Does Soil Moisture Affect Warm Season Precipitation Over the Southern Great Plains?. <i>Geophysical Research Letters</i> , 2018 , 45, 7866-7873	4.9	23
182	Impacts of internal climate variability on meteorological drought changes in China. <i>Atmospheric and Oceanic Science Letters</i> , 2018 , 11, 78-85	1.4	8
181	Evaluation of SMAP Soil Moisture Relative to Five Other Satellite Products Using the Climate Reference Network Measurements Over USA. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 6296-6305	8.1	6
180	Evaluation of the atmosphere-land-ocean-sea ice interface processes in the Regional Arctic System Model version 1 (RASM1) using local and globally gridded observations. <i>Geoscientific Model Development</i> , 2018 , 11, 4817-4841	6.3	5
179	Future Community Efforts in Understanding and Modeling Atmospheric Processes. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, ES159-ES162	6.1	1
178	Evaluation of Remotely Sensed Snow Water Equivalent and Snow Cover Extent over the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2018 , 19, 1777-1791	3.7	17
177	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , 2018 , 10, 2038	5	60
176	Snowpack Change From 1982 to 2016 Over Conterminous United States. <i>Geophysical Research Letters</i> , 2018 , 45, 12,940	4.9	39
175	Controlled Experiments of Hillslope Coevolution at the Biosphere 2 Landscape Evolution Observatory: Toward Prediction of Coupled Hydrological, Biogeochemical, and Ecological Change 2018 ,		8
174	Assessing the performance of a physically-based soil moisture module integrated within the Soil and Water Assessment Tool. <i>Environmental Modelling and Software</i> , 2018 , 109, 329-341	5.2	21
173	CO ₂ diffusion into pore spaces limits weathering rate of an experimental basalt landscape. <i>Geology</i> , 2017 , 45, 203-206	5	13
172	Impact of Irrigation over the California Central Valley on Regional Climate. <i>Journal of Hydrometeorology</i> , 2017 , 18, 1341-1357	3.7	30
171	A Hydrometeorological Perspective on the Karakoram Anomaly Using Unique Valley-Based Synoptic Weather Observations. <i>Geophysical Research Letters</i> , 2017 , 44, 10,470-10,478	4.9	32
170	Development of the Regional Arctic System Model (RASM): Near-Surface Atmospheric Climate Sensitivity. <i>Journal of Climate</i> , 2017 , 30, 5729-5753	4.4	18

169	A New Snow Density Parameterization for Land Data Initialization. <i>Journal of Hydrometeorology</i> , 2017 , 18, 197-207	3.7	20
168	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A data-model intercomparison. <i>Global Change Biology</i> , 2017 , 23, 191-208	11.4	77
167	Relationships between giant sea salt particles and clouds inferred from aircraft physicochemical data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3421-3434	4.4	21
166	The Impact of a Low Bias in Snow Water Equivalent Initialization on CFS Seasonal Forecasts. <i>Journal of Climate</i> , 2017 , 30, 8657-8671	4.4	9
165	Evaluation of Greenland near surface air temperature datasets. <i>Cryosphere</i> , 2017 , 11, 1591-1605	5.5	29
164	Advancing Understanding of Hydrological and Biogeochemical Interactions in Evolving Landscapes through Controlled Experimentation at the Landscape Evolution Observatory 2017 , 83-118		
163	Evaluation of 22 Precipitation and 23 Soil Moisture Products over a Semiarid Area in Southeastern Arizona*. <i>Journal of Hydrometeorology</i> , 2016 , 17, 211-230	3.7	17
162	A gridded global data set of soil, intact regolith, and sedimentary deposit thicknesses for regional and global land surface modeling. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 41-65	7.1	100
161	Coupled Evaluation of Below- and Aboveground Energy and Water Cycle Variables from Reanalysis Products over Five Flux Tower Sites in the United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2105-2119	3.7	4
160	Estimates of Global Surface Hydrology and Heat Fluxes from the Community Land Model (CLM4.5) with Four Atmospheric Forcing Datasets. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2493-2510	3.7	31
159	Development of a 0.5° global monthly raining day product from 1901 to 2010. <i>Geophysical Research Letters</i> , 2016 , 43, 9704-9711	4.9	2
158	Land Surface Climate in the Regional Arctic System Model. <i>Journal of Climate</i> , 2016 , 29, 6543-6562	4.4	17
157	Implementing and Evaluating Variable Soil Thickness in the Community Land Model, Version 4.5 (CLM4.5). <i>Journal of Climate</i> , 2016 , 29, 3441-3461	4.4	36
156	Linking snowfall and snow accumulation to generate spatial maps of SWE and snow depth. <i>Earth and Space Science</i> , 2016 , 3, 246-256	3.1	28
155	Influence of dynamic vegetation on carbon-nitrogen cycle feedback in the Community Land Model (CLM4). <i>Environmental Research Letters</i> , 2016 , 11, 124029	6.2	7
154	Testing the hybrid-3-D hillslope hydrological model in a controlled environment. <i>Water Resources Research</i> , 2016 , 52, 1089-1107	5.4	15
153	An Evaluation of Snow Initializations in NCEP Global and Regional Forecasting Models. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1885-1901	3.7	14
152	Stratocumulus Cloud Clearings and Notable Thermodynamic and Aerosol Contrasts across the Clear/Cloudy Interface. <i>Journals of the Atmospheric Sciences</i> , 2016 , 73, 1083-1099	2.1	20

151	Potential impacts of the continuing urbanization on regional climate. <i>IHE Delft Lecture Note Series</i> , 2016 , 179-193		
150	Urban Effects on Regional Climate: A Case Study in the Phoenix and Tucson Sun Corridor. <i>Earth Interactions</i> , 2016 , 20, 1-25	1.5	17
149	Challenges and Opportunities in NASA Weather Research. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, ES137-ES140	6.1	5
148	Why Do Global Reanalyses and Land Data Assimilation Products Underestimate Snow Water Equivalent?. <i>Journal of Hydrometeorology</i> , 2016 , 17, 2743-2761	3.7	44
147	Global warming projection in the 21st century based on an observational data-driven model. <i>Geophysical Research Letters</i> , 2016 , 43, 10,947-10,954	4.9	7
146	A New Statistical Model for Predicting Seasonal North Atlantic Hurricane Activity. <i>Weather and Forecasting</i> , 2015 , 30, 730-741	2.1	12
145	A climatology of tropospheric humidity inversions in five reanalyses. <i>Atmospheric Research</i> , 2015 , 153, 165-187	5.4	13
144	A hybrid-3D hillslope hydrological model for use in Earth system models. <i>Water Resources Research</i> , 2015 , 51, 8218-8239	5.4	31
143	Improving the representation of hydrologic processes in Earth System Models. <i>Water Resources Research</i> , 2015 , 51, 5929-5956	5.4	260
142	Quantitative characterization of spurious numerical oscillations in 48 CMIP5 models. <i>Geophysical Research Letters</i> , 2015 , 42, 5066-5073	4.9	5
141	Global hourly land surface air temperature datasets: inter-comparison and climate change. <i>International Journal of Climatology</i> , 2015 , 35, 3959-3968	3.5	8
140	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , 2015 , 244, 190-203	4.3	38
139	A Global Land Cover Climatology Using MODIS Data. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1593-1605	2.7	194
138	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , 2014 , 191, 33-50	5.8	81
137	An integrated modelling framework of catchment-scale ecohydrological processes: 2. The role of water subsidy by overland flow on vegetation dynamics in a semi-arid catchment. <i>Ecohydrology</i> , 2014 , 7, 815-827	2.5	18
136	An integrated modelling framework of catchment-scale ecohydrological processes: 1. Model description and tests over an energy-limited watershed. <i>Ecohydrology</i> , 2014 , 7, 427-439	2.5	59
135	Comparison of land skin temperature from a land model, remote sensing, and in situ measurement. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3093-3106	4.4	31
134	Intercomparison of Seven NDVI Products over the United States and Mexico. <i>Remote Sensing</i> , 2014 , 6, 1057-1084	5	37

133	Translating aboveground cosmic-ray neutron intensity to high-frequency soil moisture profiles at sub-kilometer scale. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 4363-4379	5.5	39
132	Incipient subsurface heterogeneity and its effect on overland flow generation Insight from a modeling study of the first experiment at the Biosphere 2 Landscape Evolution Observatory. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 1873-1883	5.5	24
131	Range of monthly mean hourly land surface air temperature diurnal cycle over high northern latitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5836-5844	4.4	11
130	Hillslope-scale experiment demonstrates the role of convergence during two-step saturation. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 3681-3692	5.5	27
129	Impacts of modified Richards equation on RegCM4 regional climate modeling over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 12,642-12,659	4.4	12
128	Summer Soil Moisture Spatiotemporal Variability in Southeastern Arizona. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1473-1485	3.7	15
127	A MODIS-Based Global 1-km Maximum Green Vegetation Fraction Dataset. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1996-2004	2.7	57
126	Towards a comprehensive approach to parameter estimation in land surface parameterization schemes. <i>Hydrological Processes</i> , 2013 , 27, 2075-2097	3.3	38
125	Terrestrial Carbon Cycle: Climate Relations in Eight CMIP5 Earth System Models. <i>Journal of Climate</i> , 2013 , 26, 8744-8764	4.4	71
124	Overview of the Large-Scale BiosphereAtmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 111-127	5.8	49
123	Assessment of CMIP5 Model Simulations of the North American Monsoon System. <i>Journal of Climate</i> , 2013 , 26, 8787-8801	4.4	52
122	The Effect of Atmospheric Water Vapor on Neutron Count in the Cosmic-Ray Soil Moisture Observing System. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1659-1671	3.7	108
121	Spatiotemporal Variability of Summer Precipitation in Southeastern Arizona. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1944-1951	3.7	10
120	Development of Global Hourly 0.5° Land Surface Air Temperature Datasets. <i>Journal of Climate</i> , 2013 , 26, 7676-7691	4.4	44
119	Soil microbial respiration from observations and Earth System Models. <i>Environmental Research Letters</i> , 2013 , 8, 034034	6.2	39
118	A toy model for monthly river flow forecasting. <i>Journal of Hydrology</i> , 2012 , 452-453, 226-231	6	5
117	Evaluation of the Reanalysis Products from GSFC, NCEP, and ECMWF Using Flux Tower Observations. <i>Journal of Climate</i> , 2012 , 25, 1916-1944	4.4	246
116	Evaluation of multireanalysis products with in situ observations over the Tibetan Plateau. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		167

115	What is monthly mean land surface air temperature?. <i>Eos</i> , 2012 , 93, 156-156	1.5	21
114	The hindcast skill of the CMIP ensembles for the surface air temperature trend. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		16
113	Measurement depth of the cosmic ray soil moisture probe affected by hydrogen from various sources. <i>Water Resources Research</i> , 2012 , 48,	5.4	96
112	Earth System Model, Modeling the Land Component of 2012 , 139-168		6
111	COSMOS: the COsmic-ray Soil Moisture Observing System. <i>Hydrology and Earth System Sciences</i> , 2012 , 16, 4079-4099	5.5	308
110	Improvement of daytime land surface skin temperature over arid regions in the NCEP GFS model and its impact on satellite data assimilation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		56
109	Temporal- and Spatial-Scale Dependence of Three CMIP3 Climate Models in Simulating the Surface Temperature Trend in the Twentieth Century. <i>Journal of Climate</i> , 2012 , 25, 2456-2470	4.4	11
108	Surface Skin Temperature and the Interplay between Sensible and Ground Heat Fluxes over Arid Regions. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1359-1370	3.7	40
107	A fully multiple-criteria implementation of the Sobol? method for parameter sensitivity analysis. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		69
106	Sensitivities of terrestrial water cycle simulations to the variations of precipitation and air temperature in China. <i>Journal of Geophysical Research</i> , 2011 , 116,		36
105	Natural and drought scenarios in an east central Amazon forest: Fidelity of the Community Land Model 3.5 with three biogeochemical models. <i>Journal of Geophysical Research</i> , 2011 , 116,		23
104	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011 , 3,	7.1	581
103	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2011 , 3, n/a-n/a	7.1	258
102	An Assessment of the Uncertainties in Ocean Surface Turbulent Fluxes in 11 Reanalysis, Satellite-Derived, and Combined Global Datasets. <i>Journal of Climate</i> , 2011 , 24, 5469-5493	4.4	87
101	Evaluation of Snow Albedo in Land Models for Weather and Climate Studies. <i>Journal of Applied Meteorology and Climatology</i> , 2010 , 49, 363-380	2.7	49
100	Comparison of LandPrecipitation Coupling Strength Using Observations and Models. <i>Journal of Hydrometeorology</i> , 2010 , 11, 979-994	3.7	45
99	Revising the Ensemble-Based Kalman Filter Covariance for the Retrieval of Deep-Layer Soil Moisture. <i>Journal of Hydrometeorology</i> , 2010 , 11, 219-227	3.7	8
98	Improving snow processes in the Noah land model. <i>Journal of Geophysical Research</i> , 2010 , 115,		40

97	What Is the Atmosphere's Effect on Earth's Surface Temperature?. <i>Eos</i> , 2010 , 91, 134	1.5	2
96	Reply to Comments on "What Is the Atmosphere's Effect on Earth's Surface Temperature?" <i>Eos</i> , 2010 , 91, 432-432	1.5	
95	Land surface modeling inside the Biosphere 2 tropical rain forest biome. <i>Journal of Geophysical Research</i> , 2010 , 115,		13
94	A comparison of ship and satellite measurements of cloud properties with global climate model simulations in the southeast Pacific stratus deck. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 6527-6536	6.8	16
93	Improving the treatment of the vertical snow burial fraction over short vegetation in the NCAR CLM3. <i>Advances in Atmospheric Sciences</i> , 2009 , 26, 877-886	2.9	34
92	Precipitation and precipitable water: Their temporal-spatial behaviors and use in determining monsoon onset/retreat and monsoon regions. <i>Journal of Geophysical Research</i> , 2009 , 114,		12
91	Impact of Modified Richards Equation on Global Soil Moisture Simulation in the Community Land Model (CLM3.5). <i>Journal of Advances in Modeling Earth Systems</i> , 2009 , 1, n/a-n/a	7.1	35
90	Improving the Numerical Solution of Soil Moisture-Based Richards Equation for Land Models with a Deep or Shallow Water Table. <i>Journal of Hydrometeorology</i> , 2009 , 10, 308-319	3.7	107
89	Effects of soil wetness, plant litter, and under-canopy atmospheric stability on ground evaporation in the Community Land Model (CLM3.5). <i>Journal of Geophysical Research</i> , 2009 , 114,		125
88	The Hills Are Alive: Earth Science in a Controlled Environment. <i>Eos</i> , 2009 , 90, 120-120	1.5	26
87	Growing temperate shrubs over arid and semiarid regions in the Community Land Model-Dynamic Global Vegetation Model. <i>Global Biogeochemical Cycles</i> , 2008 , 22, n/a-n/a	5.9	60
86	Integration of a prognostic sea surface skin temperature scheme into weather and climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		24
85	The Equatorial Pacific Cold Tongue Bias in a Coupled Climate Model. <i>Journal of Climate</i> , 2008 , 21, 5852-5869	4.4	19
84	Dependence of Land Surface Albedo on Solar Zenith Angle: Observations and Model Parameterization. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 2963-2982	2.7	55
83	Snow Albedo Dependence on Solar Zenith Angle from In Situ and MODIS Data. <i>Atmospheric and Oceanic Science Letters</i> , 2008 , 1, 45-50	1.4	4
82	Moderate Resolution Imaging Spectroradiometer bidirectional reflectance distribution function-based albedo parameterization for weather and climate models. <i>Journal of Geophysical Research</i> , 2007 , 112,		15
81	Transition and pattern diversity in arid and semiarid grassland: A modeling study. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		1
80	Consistent Parameterization of Roughness Length and Displacement Height for Sparse and Dense Canopies in Land Models. <i>Journal of Hydrometeorology</i> , 2007 , 8, 730-737	3.7	34

79	Intermediately complex models for the hydrological interactions in the atmosphere-vegetation-soil system. <i>Advances in Atmospheric Sciences</i> , 2006 , 23, 127-140	2.9	12
78	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. <i>Journal of Climate</i> , 2006 , 19, 2302-2324	4.4	296
77	An analysis of statistical characteristics of stratus and stratocumulus over eastern Pacific. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	7
76	An empirical formulation of soil ice fraction based on in situ observations. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	11
75	An intercomparison of bulk aerodynamic algorithms used over sea ice with data from the Surface Heat Budget for the Arctic Ocean (SHEBA) experiment. <i>Journal of Geophysical Research</i> , 2006 , 111,		26
74	Sensitivity of the NCEP/Noah land surface model to the MODIS green vegetation fraction data set. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	45
73	Areal estimation of intensity and frequency of summertime precipitation over a midlatitude region. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	23
72	Time Scales of Land Surface Hydrology. <i>Journal of Hydrometeorology</i> , 2006 , 7, 868-879	3.7	31
71	The solar zenith angle dependence of desert albedo. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	26
70	Reply to comment by Dekker and Rietkerk on "Multiple equilibrium states and the abrupt transitions in a dynamical system of soil water interacting with vegetation" <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	1
69	A global 0.05° maximum albedo dataset of snow-covered land based on MODIS observations. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	46
68	A prognostic scheme of sea surface skin temperature for modeling and data assimilation. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	174
67	Understanding different precipitation seasonality regimes from water vapor and temperature fields: Case studies. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	8
66	Treatment of Undercanopy Turbulence in Land Models. <i>Journal of Climate</i> , 2005 , 18, 5086-5094	4.4	43
65	Vegetation-soil water interaction within a dynamical ecosystem model of grassland in semi-arid areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005 , 57, 189-202	3.3	25
64	Ecological dynamic model of grassland and its practical verification. <i>Science in China Series C: Life Sciences</i> , 2005 , 48, 41-8		5
63	SEAFLUX. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 409-424	6.1	109
62	On the regulation of minimum mid-tropospheric temperatures in the Arctic. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	6

61	Multiple equilibrium states and the abrupt transitions in a dynamical system of soil water interacting with vegetation. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	42
60	Comparison of seasonal and spatial variations of leaf area index and fraction of absorbed photosynthetically active radiation from Moderate Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , 2004 , 109,		90
59	Impact of observed vegetation root distribution on seasonal global simulations of land surface processes. <i>Journal of Geophysical Research</i> , 2004 , 109,		4
58	Globally Unified Monsoon Onset and Retreat Indexes. <i>Journal of Climate</i> , 2004 , 17, 2241-2248	4.4	87
57	Using MODIS BRDF and Albedo Data to Evaluate Global Model Land Surface Albedo. <i>Journal of Hydrometeorology</i> , 2004 , 5, 3-14	3.7	74
56	The Effects of Observed Fractional Vegetation Cover on the Land Surface Climatology of the Community Land Model. <i>Journal of Hydrometeorology</i> , 2004 , 5, 823-830	3.7	32
55	Marine Atmospheric Boundary Layer Height over the Eastern Pacific: Data Analysis and Model Evaluation. <i>Journal of Climate</i> , 2004 , 17, 4159-4170	4.4	60
54	Likelihood of rapidly increasing surface temperatures unaccompanied by strong warming in the free troposphere. <i>Climate Research</i> , 2004 , 25, 185-190	1.6	8
53	The Global Climate. <i>Global Change - the IGBP Series</i> , 2004 , 33-57		6
52	Interannual Variability and Decadal Trend of Global Fractional Vegetation Cover from 1982 to 2000. <i>Journal of Applied Meteorology and Climatology</i> , 2003 , 42, 1525-1530		47
51	How does the partitioning of evapotranspiration and runoff between different processes affect the variability and predictability of soil moisture and precipitation?. <i>Advances in Atmospheric Sciences</i> , 2003 , 20, 475-478	2.9	14
50	Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , 2003 , 108,		100
49	The Common Land Model. <i>Bulletin of the American Meteorological Society</i> , 2003 , 84, 1013-1024	6.1	897
48	Which Bulk Aerodynamic Algorithms are Least Problematic in Computing Ocean Surface Turbulent Fluxes?. <i>Journal of Climate</i> , 2003 , 16, 619-635	4.4	123
47	Coupling of the Common Land Model to the NCAR Community Climate Model. <i>Journal of Climate</i> , 2002 , 15, 1832-1854	4.4	200
46	The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model*. <i>Journal of Climate</i> , 2002 , 15, 3123-3149	4.4	499
45	Uncertainties in sea surface turbulent flux algorithms and data sets. <i>Journal of Geophysical Research</i> , 2002 , 107, 5-1		44
44	Analysis of a multiyear global vegetation leaf area index data set. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 14-1		70

43	A proposed mechanism for the regulation of minimum midtropospheric temperatures in the Arctic. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 2-1		18
42	Relating MODIS-derived surface albedo to soils and rock types over Northern Africa and the Arabian peninsula. <i>Geophysical Research Letters</i> , 2002 , 29, 67-1-67-4	4.9	59
41	How does snow impact the albedo of vegetated land surfaces as analyzed with MODIS data?. <i>Geophysical Research Letters</i> , 2002 , 29, 12-1-12-4	4.9	64
40	Parameterization of Wind Gustiness for the Computation of Ocean Surface Fluxes at Different Spatial Scales. <i>Monthly Weather Review</i> , 2002 , 130, 2125-2133	2.4	26
39	Global Vegetation Root Distribution for Land Modeling. <i>Journal of Hydrometeorology</i> , 2001 , 2, 525-530	3.7	164
38	Comparison of albedos computed by land surface models and evaluation against remotely sensed data. <i>Journal of Geophysical Research</i> , 2001 , 106, 20687-20702		28
37	Evaluation of the Utility of Satellite-Based Vegetation Leaf Area Index Data for Climate Simulations. <i>Journal of Climate</i> , 2001 , 14, 3536-3550	4.4	137
36	Measurements Of Fine-Scale Structure At The Top Of Marine Stratocumulus. <i>Boundary-Layer Meteorology</i> , 2000 , 97, 331-357	3.4	32
35	Derivation and Evaluation of Global 1-km Fractional Vegetation Cover Data for Land Modeling. <i>Journal of Applied Meteorology and Climatology</i> , 2000 , 39, 826-839		221
34	A multiyear hourly sea surface skin temperature data set derived from the TOGA TAO bulk temperature and wind speed over the tropical Pacific. <i>Journal of Geophysical Research</i> , 1999 , 104, 1525-1536		32
33	The Relationship among Precipitation, Cloud-Top Temperature, and Precipitable Water over the Tropics. <i>Journal of Climate</i> , 1999 , 12, 2503-2514	4.4	27
32	Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. <i>Global Change Biology</i> , 1998 , 4, 461-475	11.4	488
31	The role of root distribution for climate simulation over land. <i>Geophysical Research Letters</i> , 1998 , 25, 4533-4536	4.9	56
30	Impact of diurnally-varying skin temperature on surface fluxes over the tropical Pacific. <i>Geophysical Research Letters</i> , 1998 , 25, 1411-1414	4.9	16
29	Intercomparison of Bulk Aerodynamic Algorithms for the Computation of Sea Surface Fluxes Using TOGA COARE and TAO Data. <i>Journal of Climate</i> , 1998 , 11, 2628-2644	4.4	522
28	Adjustment of GCM Precipitation Intensity over the United States. <i>Journal of Applied Meteorology and Climatology</i> , 1998 , 37, 876-887		8
27	Effect of Surface Sublayer on Surface Skin Temperature and Fluxes. <i>Journal of Climate</i> , 1998 , 11, 537-550	4.4	61
26	Several Unresolved Issues in Numerical Modelling of Geophysical Flows. <i>Atmosphere - Ocean</i> , 1997 , 35, 557-581	1.5	

25	Mesoscale fluxes over heterogeneous flat landscapes for use in larger scale models. <i>Journal of Hydrology</i> , 1997 , 190, 317-336	6	11
24	Comparison of Precipitation Observed over the Continental United States to That Simulated by a Climate Model. <i>Journal of Climate</i> , 1996 , 9, 2233-2249	4.4	72
23	Heat and Momentum Fluxes Induced by Thermal Inhomogeneities with and without Large-Scale Flow. <i>Journals of the Atmospheric Sciences</i> , 1996 , 53, 3286-3302	2.1	41
22	Climatic Impact of Amazon Deforestation: A Mechanistic Model Study. <i>Journal of Climate</i> , 1996 , 9, 859-883	4.4	90
21	Landscape-Induced Atmospheric Flow and its Parameterization in Large-Scale Numerical Models. <i>Journal of Climate</i> , 1995 , 8, 1156-1177	4.4	46
20	Further Study on the Predictability of Landscape-Induced Atmospheric Flow. <i>Journals of the Atmospheric Sciences</i> , 1995 , 52, 1680-1698	2.1	18
19	Atmospheric Vortices. <i>Fluid Mechanics and Its Applications</i> , 1995 , 617-650	0.2	1
18	Long-Term Variability of Climate. <i>Journals of the Atmospheric Sciences</i> , 1994 , 51, 155-159	2.1	22
17	Atmosphere-terrestrial ecosystem interactions: implications for coupled modeling. <i>Ecological Modelling</i> , 1993 , 67, 5-18	3	27
16	Chaos Theory and Its Applications to the Atmosphere. <i>Bulletin of the American Meteorological Society</i> , 1993 , 74, 631-644	6.1	53
15	Error-Growth Dynamics and Predictability of Surface Thermally Induced Atmospheric Flow. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 2817-2844	2.1	18
14	What does a low-dimensional weather attractor mean?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 175, 299-304	2.3	16
13	Estimating the Fractal Dimension and the Predictability of the Atmosphere. <i>Journals of the Atmospheric Sciences</i> , 1992 , 49, 649-659	2.1	46
12	EXTRACTING LYAPUNOV EXPONENTS FROM SHORT TIME SERIES OF LOW PRECISION. <i>Modern Physics Letters B</i> , 1992 , 06, 55-75	1.6	24
11	Reply to Jascourt and Raymond. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 247-248	3.3	2
10	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 247-248	3.3	4
9	Estimating the Lyapunov-exponent spectrum from short time series of low precision. <i>Physical Review Letters</i> , 1991 , 66, 3229-3232	7.4	117
8	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 309-318	3.3	10

7	Chaos in daisyworld. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990 , 42, 309-318	3.3	16
6	A comparison of ship and satellite measurements of cloud properties in the southeast Pacific stratus deck		2
5	Differences in carbon cycle and temperature projections from emission- and concentration-driven earth system model simulations		1
4	Assimilation of near-surface cosmic-ray neutrons improves summertime soil moisture profile estimates at three distinct biomes in the USA		3
3	COSMOS: The COsmic-ray Soil Moisture Observing System		22
2	The COsmic-ray Soil Moisture Observing System (COSMOS): a non-invasive, intermediate scale soil moisture measurement network		9
1	Re-evaluation of Low Cloud Amount Relationships with Lower-Tropospheric Stability and Estimated Inversion Strength. <i>Geophysical Research Letters</i> ,	4.9	0