

# Xubin Zeng

## List of Publications by Citations

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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	The Common Land Model. <i>Bulletin of the American Meteorological Society</i> , <b>2003</b> , 84, 1013-1024	6.1	897
221	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2011</b> , 3,	7.1	581
220	Intercomparison of Bulk Aerodynamic Algorithms for the Computation of Sea Surface Fluxes Using TOGA COARE and TAO Data. <i>Journal of Climate</i> , <b>1998</b> , 11, 2628-2644	4.4	522
219	The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model*. <i>Journal of Climate</i> , <b>2002</b> , 15, 3123-3149	4.4	499
218	Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. <i>Global Change Biology</i> , <b>1998</b> , 4, 461-475	11.4	488
217	COSMOS: the COsmic-ray Soil Moisture Observing System. <i>Hydrology and Earth System Sciences</i> , <b>2012</b> , 16, 4079-4099	5.5	308
216	The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model. <i>Journal of Climate</i> , <b>2006</b> , 19, 2302-2324	4.4	296
215	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> , <b>2019</b> , 11, 4245-4287	7.1	288
214	Improving the representation of hydrologic processes in Earth System Models. <i>Water Resources Research</i> , <b>2015</b> , 51, 5929-5956	5.4	260
213	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2011</b> , 3, n/a-n/a	7.1	258
212	Evaluation of the Reanalysis Products from GSFC, NCEP, and ECMWF Using Flux Tower Observations. <i>Journal of Climate</i> , <b>2012</b> , 25, 1916-1944	4.4	246
211	Derivation and Evaluation of Global 1-km Fractional Vegetation Cover Data for Land Modeling. <i>Journal of Applied Meteorology and Climatology</i> , <b>2000</b> , 39, 826-839		221
210	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2019</b> , 11, 2089-2129	7.1	217
209	Coupling of the Common Land Model to the NCAR Community Climate Model. <i>Journal of Climate</i> , <b>2002</b> , 15, 1832-1854	4.4	200
208	A Global Land Cover Climatology Using MODIS Data. <i>Journal of Applied Meteorology and Climatology</i> , <b>2014</b> , 53, 1593-1605	2.7	194
207	A prognostic scheme of sea surface skin temperature for modeling and data assimilation. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	174
206	Evaluation of multireanalysis products with in situ observations over the Tibetan Plateau. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		167

205	Global Vegetation Root Distribution for Land Modeling. <i>Journal of Hydrometeorology</i> , <b>2001</b> , 2, 525-530	3.7	164
204	Hillslope Hydrology in Global Change Research and Earth System Modeling. <i>Water Resources Research</i> , <b>2019</b> , 55, 1737-1772	5.4	161
203	Evaluation of the Utility of Satellite-Based Vegetation Leaf Area Index Data for Climate Simulations. <i>Journal of Climate</i> , <b>2001</b> , 14, 3536-3550	4.4	137
202	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> , <b>2009</b> , 114,		125
201	Which Bulk Aerodynamic Algorithms are Least Problematic in Computing Ocean Surface Turbulent Fluxes?. <i>Journal of Climate</i> , <b>2003</b> , 16, 619-635	4.4	123
200	Estimating the Lyapunov-exponent spectrum from short time series of low precision. <i>Physical Review Letters</i> , <b>1991</b> , 66, 3229-3232	7.4	117
199	SEAFLUX. <i>Bulletin of the American Meteorological Society</i> , <b>2004</b> , 85, 409-424	6.1	109
198	The Effect of Atmospheric Water Vapor on Neutron Count in the Cosmic-Ray Soil Moisture Observing System. <i>Journal of Hydrometeorology</i> , <b>2013</b> , 14, 1659-1671	3.7	108
197	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> , <b>2009</b> , 10, 308-319	3.7	107
196	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> , <b>2016</b> , 8, 41-65	7.1	100
195	Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		100
194	Measurement depth of the cosmic ray soil moisture probe affected by hydrogen from various sources. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	96
193	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> , <b>2004</b> , 109,		90
192	Climatic Impact of Amazon Deforestation: A Mechanistic Model Study. <i>Journal of Climate</i> , <b>1996</b> , 9, 859-883	7.4	90
191	An Assessment of the Uncertainties in Ocean Surface Turbulent Fluxes in 11 Reanalysis, Satellite-Derived, and Combined Global Datasets. <i>Journal of Climate</i> , <b>2011</b> , 24, 5469-5493	4.4	87
190	Globally Unified Monsoon Onset and Retreat Indexes. <i>Journal of Climate</i> , <b>2004</b> , 17, 2241-2248	4.4	87
189	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. <i>Agricultural and Forest Meteorology</i> , <b>2014</b> , 191, 33-50	5.8	81
188	Do dynamic global vegetation models capture the seasonality of carbon fluxes in the Amazon basin? A data-model intercomparison. <i>Global Change Biology</i> , <b>2017</b> , 23, 191-208	11.4	77

187	Using MODIS BRDF and Albedo Data to Evaluate Global Model Land Surface Albedo. <i>Journal of Hydrometeorology</i> , <b>2004</b> , 5, 3-14	3.7	74
186	Comparison of Precipitation Observed over the Continental United States to That Simulated by a Climate Model. <i>Journal of Climate</i> , <b>1996</b> , 9, 2233-2249	4.4	72
185	Terrestrial Carbon Cycle: Climate Relations in Eight CMIP5 Earth System Models. <i>Journal of Climate</i> , <b>2013</b> , 26, 8744-8764	4.4	71
184	Analysis of a multiyear global vegetation leaf area index data set. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 14-1		70
183	A fully multiple-criteria implementation of the Sobol' method for parameter sensitivity analysis. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		69
182	How does snow impact the albedo of vegetated land surfaces as analyzed with MODIS data?. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 12-1-12-4	4.9	64
181	Effect of Surface Sublayer on Surface Skin Temperature and Fluxes. <i>Journal of Climate</i> , <b>1998</b> , 11, 537-550	4.4	61
180	Growing temperate shrubs over arid and semiarid regions in the Community Land Model Dynamic Global Vegetation Model. <i>Global Biogeochemical Cycles</i> , <b>2008</b> , 22, n/a-n/a	5.9	60
179	Marine Atmospheric Boundary Layer Height over the Eastern Pacific: Data Analysis and Model Evaluation. <i>Journal of Climate</i> , <b>2004</b> , 17, 4159-4170	4.4	60
178	Satellite and In Situ Observations for Advancing Global Earth Surface Modelling: A Review. <i>Remote Sensing</i> , <b>2018</b> , 10, 2038	5	60
177	An integrated modelling framework of catchment-scale ecohydrological processes: 1. Model description and tests over an energy-limited watershed. <i>Ecohydrology</i> , <b>2014</b> , 7, 427-439	2.5	59
176	Relating MODIS-derived surface albedo to soils and rock types over Northern Africa and the Arabian peninsula. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 67-1-67-4	4.9	59
175	A MODIS-Based Global 1-km Maximum Green Vegetation Fraction Dataset. <i>Journal of Applied Meteorology and Climatology</i> , <b>2014</b> , 53, 1996-2004	2.7	57
174	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> , <b>2012</b> , 117, n/a-n/a		56
173	The role of root distribution for climate simulation over land. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 4533-4536	4.9	56
172	Dependence of Land Surface Albedo on Solar Zenith Angle: Observations and Model Parameterization. <i>Journal of Applied Meteorology and Climatology</i> , <b>2008</b> , 47, 2963-2982	2.7	55
171	Chaos Theory and Its Applications to the Atmosphere. <i>Bulletin of the American Meteorological Society</i> , <b>1993</b> , 74, 631-644	6.1	53
170	Assessment of CMIP5 Model Simulations of the North American Monsoon System. <i>Journal of Climate</i> , <b>2013</b> , 26, 8787-8801	4.4	52

169	Overview of the Large-Scale Biosphere-Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). <i>Agricultural and Forest Meteorology</i> , <b>2013</b> , 182-183, 111-127	5.8	49
168	Evaluation of Snow Albedo in Land Models for Weather and Climate Studies. <i>Journal of Applied Meteorology and Climatology</i> , <b>2010</b> , 49, 363-380	2.7	49
167	Interannual Variability and Decadal Trend of Global Fractional Vegetation Cover from 1982 to 2000. <i>Journal of Applied Meteorology and Climatology</i> , <b>2003</b> , 42, 1525-1530		47
166	A global 0.05° maximum albedo dataset of snow-covered land based on MODIS observations. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	46
165	Landscape-Induced Atmospheric Flow and its Parameterization in Large-Scale Numerical Models. <i>Journal of Climate</i> , <b>1995</b> , 8, 1156-1177	4.4	46
164	Estimating the Fractal Dimension and the Predictability of the Atmosphere. <i>Journals of the Atmospheric Sciences</i> , <b>1992</b> , 49, 649-659	2.1	46
163	Comparison of Land-Precipitation Coupling Strength Using Observations and Models. <i>Journal of Hydrometeorology</i> , <b>2010</b> , 11, 979-994	3.7	45
162	Sensitivity of the NCEP/Noah land surface model to the MODIS green vegetation fraction data set. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	45
161	Development of Global Hourly 0.5° Land Surface Air Temperature Datasets. <i>Journal of Climate</i> , <b>2013</b> , 26, 7676-7691	4.4	44
160	Uncertainties in sea surface turbulent flux algorithms and data sets. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, 5-1		44
159	Why Do Global Reanalyses and Land Data Assimilation Products Underestimate Snow Water Equivalent?. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 2743-2761	3.7	44
158	Treatment of Undercanopy Turbulence in Land Models. <i>Journal of Climate</i> , <b>2005</b> , 18, 5086-5094	4.4	43
157	Multiple equilibrium states and the abrupt transitions in a dynamical system of soil water interacting with vegetation. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	42
156	Heat and Momentum Fluxes Induced by Thermal Inhomogeneities with and without Large-Scale Flow. <i>Journals of the Atmospheric Sciences</i> , <b>1996</b> , 53, 3286-3302	2.1	41
155	Improving snow processes in the Noah land model. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		40
154	Surface Skin Temperature and the Interplay between Sensible and Ground Heat Fluxes over Arid Regions. <i>Journal of Hydrometeorology</i> , <b>2012</b> , 13, 1359-1370	3.7	40
153	Translating aboveground cosmic-ray neutron intensity to high-frequency soil moisture profiles at sub-kilometer scale. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 4363-4379	5.5	39
152	Soil microbial respiration from observations and Earth System Models. <i>Environmental Research Letters</i> , <b>2013</b> , 8, 034034	6.2	39

151	Snowpack Change From 1982 to 2016 Over Conterminous United States. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 12,940	4.9	39
150	Towards a comprehensive approach to parameter estimation in land surface parameterization schemes. <i>Hydrological Processes</i> , <b>2013</b> , 27, 2075-2097	3.3	38
149	The Landscape Evolution Observatory: A large-scale controllable infrastructure to study coupled Earth-surface processes. <i>Geomorphology</i> , <b>2015</b> , 244, 190-203	4.3	38
148	Intercomparison of Seven NDVI Products over the United States and Mexico. <i>Remote Sensing</i> , <b>2014</b> , 6, 1057-1084	5	37
147	Implementing and Evaluating Variable Soil Thickness in the Community Land Model, Version 4.5 (CLM4.5). <i>Journal of Climate</i> , <b>2016</b> , 29, 3441-3461	4.4	36
146	Sensitivities of terrestrial water cycle simulations to the variations of precipitation and air temperature in China. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		36
145	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> , <b>2009</b> , 1, n/a-n/a	7.1	35
144	Improving the treatment of the vertical snow burial fraction over short vegetation in the NCAR CLM3. <i>Advances in Atmospheric Sciences</i> , <b>2009</b> , 26, 877-886	2.9	34
143	Consistent Parameterization of Roughness Length and Displacement Height for Sparse and Dense Canopies in Land Models. <i>Journal of Hydrometeorology</i> , <b>2007</b> , 8, 730-737	3.7	34
142	A Hydrometeorological Perspective on the Karakoram Anomaly Using Unique Valley-Based Synoptic Weather Observations. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 10,470-10,478	4.9	32
141	The Effects of Observed Fractional Vegetation Cover on the Land Surface Climatology of the Community Land Model. <i>Journal of Hydrometeorology</i> , <b>2004</b> , 5, 823-830	3.7	32
140	Measurements Of Fine-Scale Structure At The Top Of Marine Stratocumulus. <i>Boundary-Layer Meteorology</i> , <b>2000</b> , 97, 331-357	3.4	32
139	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> , <b>1999</b> , 104, 1525-1536		32
138	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> , <b>2016</b> , 17, 2493-2510	3.7	31
137	Comparison of land skin temperature from a land model, remote sensing, and in situ measurement. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 3093-3106	4.4	31
136	A hybrid-3D hillslope hydrological model for use in Earth system models. <i>Water Resources Research</i> , <b>2015</b> , 51, 8218-8239	5.4	31
135	Time Scales of Land Surface Hydrology. <i>Journal of Hydrometeorology</i> , <b>2006</b> , 7, 868-879	3.7	31
134	Impact of Irrigation over the California Central Valley on Regional Climate. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 1341-1357	3.7	30

133	Evaluation of Greenland near surface air temperature datasets. <i>Cryosphere</i> , <b>2017</b> , 11, 1591-1605	5.5	29
132	Linking snowfall and snow accumulation to generate spatial maps of SWE and snow depth. <i>Earth and Space Science</i> , <b>2016</b> , 3, 246-256	3.1	28
131	Comparison of albedos computed by land surface models and evaluation against remotely sensed data. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 20687-20702		28
130	Hillslope-scale experiment demonstrates the role of convergence during two-step saturation. <i>Hydrology and Earth System Sciences</i> , <b>2014</b> , 18, 3681-3692	5.5	27
129	The Relationship among Precipitation, Cloud-Top Temperature, and Precipitable Water over the Tropics. <i>Journal of Climate</i> , <b>1999</b> , 12, 2503-2514	4.4	27
128	Atmosphere-terrestrial ecosystem interactions: implications for coupled modeling. <i>Ecological Modelling</i> , <b>1993</b> , 67, 5-18	3	27
127	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> , <b>2019</b> , 100, 1511-1528	6.1	26
126	The Hills Are Alive: Earth Science in a Controlled Environment. <i>Eos</i> , <b>2009</b> , 90, 120-120	1.5	26
125	The solar zenith angle dependence of desert albedo. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	26
124	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> , <b>2006</b> , 111,		26
123	Parameterization of Wind Gustiness for the Computation of Ocean Surface Fluxes at Different Spatial Scales. <i>Monthly Weather Review</i> , <b>2002</b> , 130, 2125-2133	2.4	26
122	Vegetation-soil water interaction within a dynamical ecosystem model of grassland in semi-arid areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2005</b> , 57, 189-202	3.3	25
121	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> , <b>2014</b> , 18, 1873-1883	5.5	24
120	Integration of a prognostic sea surface skin temperature scheme into weather and climate models. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		24
119	EXTRACTING LYAPUNOV EXPONENTS FROM SHORT TIME SERIES OF LOW PRECISION. <i>Modern Physics Letters B</i> , <b>1992</b> , 06, 55-75	1.6	24
118	Does Soil Moisture Affect Warm Season Precipitation Over the Southern Great Plains?. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 7866-7873	4.9	23
117	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> , <b>2011</b> , 116,		23
116	Areal estimation of intensity and frequency of summertime precipitation over a midlatitude region. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	23

115	Long-Term Variability of Climate. <i>Journals of the Atmospheric Sciences</i> , <b>1994</b> , 51, 155-159	2.1	22
114	COSMOS: The COsmic-ray Soil Moisture Observing System		22
113	Relationships between giant sea salt particles and clouds inferred from aircraft physicochemical data. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 3421-3434	4.4	21
112	What is monthly mean land surface air temperature?. <i>Eos</i> , <b>2012</b> , 93, 156-156	1.5	21
111	Assessing the performance of a physically-based soil moisture module integrated within the Soil and Water Assessment Tool. <i>Environmental Modelling and Software</i> , <b>2018</b> , 109, 329-341	5.2	21
110	Stratocumulus Cloud Clearings and Notable Thermodynamic and Aerosol Contrasts across the ClearCloudy Interface. <i>Journals of the Atmospheric Sciences</i> , <b>2016</b> , 73, 1083-1099	2.1	20
109	A New Snow Density Parameterization for Land Data Initialization. <i>Journal of Hydrometeorology</i> , <b>2017</b> , 18, 197-207	3.7	20
108	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> , <b>2020</b> , 125, e2019JD031626	4.4	19
107	The Equatorial Pacific Cold Tongue Bias in a Coupled Climate Model. <i>Journal of Climate</i> , <b>2008</b> , 21, 5852-5869	4.4	19
106	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> , <b>2014</b> , 7, 815-827	2.5	18
105	Development of the Regional Arctic System Model (RASM): Near-Surface Atmospheric Climate Sensitivity. <i>Journal of Climate</i> , <b>2017</b> , 30, 5729-5753	4.4	18
104	A proposed mechanism for the regulation of minimum midtropospheric temperatures in the Arctic. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACL 2-1		18
103	Error-Growth Dynamics and Predictability of Surface Thermally Induced Atmospheric Flow. <i>Journals of the Atmospheric Sciences</i> , <b>1993</b> , 50, 2817-2844	2.1	18
102	Further Study on the Predictability of Landscape-Induced Atmospheric Flow. <i>Journals of the Atmospheric Sciences</i> , <b>1995</b> , 52, 1680-1698	2.1	18
101	Evaluation of 22 Precipitation and 23 Soil Moisture Products over a Semiarid Area in Southeastern Arizona*. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 211-230	3.7	17
100	Land Surface Climate in the Regional Arctic System Model. <i>Journal of Climate</i> , <b>2016</b> , 29, 6543-6562	4.4	17
99	Urban Effects on Regional Climate: A Case Study in the Phoenix and Tucson Sun Corridor. <i>Earth Interactions</i> , <b>2016</b> , 20, 1-25	1.5	17
98	Evaluation of Remotely Sensed Snow Water Equivalent and Snow Cover Extent over the Contiguous United States. <i>Journal of Hydrometeorology</i> , <b>2018</b> , 19, 1777-1791	3.7	17



97	The hindcast skill of the CMIP ensembles for the surface air temperature trend. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		16
96	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> , <b>2010</b> , 10, 6527-6536	6.8	16
95	Impact of diurnally-varying skin temperature on surface fluxes over the tropical Pacific. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 1411-1414	4.9	16
94	What does a low-dimensional weather attractor mean?. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1993</b> , 175, 299-304	2.3	16
93	Chaos in daisyworld. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1990</b> , 42, 309-318	3.3	16
92	Testing the hybrid-3-D hillslope hydrological model in a controlled environment. <i>Water Resources Research</i> , <b>2016</b> , 52, 1089-1107	5.4	15
91	Summer Soil Moisture Spatiotemporal Variability in Southeastern Arizona. <i>Journal of Hydrometeorology</i> , <b>2014</b> , 15, 1473-1485	3.7	15
90	Moderate Resolution Imaging Spectroradiometer bidirectional reflectance distribution functionBased albedo parameterization for weather and climate models. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		15
89	An Evaluation of Snow Initializations in NCEP Global and Regional Forecasting Models. <i>Journal of Hydrometeorology</i> , <b>2016</b> , 17, 1885-1901	3.7	14
88	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> , <b>2003</b> , 20, 475-478	2.9	14
87	CO <sub>2</sub> diffusion into pore spaces limits weathering rate of an experimental basalt landscape. <i>Geology</i> , <b>2017</b> , 45, 203-206	5	13
86	A climatology of tropospheric humidity inversions in five reanalyses. <i>Atmospheric Research</i> , <b>2015</b> , 153, 165-187	5.4	13
85	Land surface modeling inside the Biosphere 2 tropical rain forest biome. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		13
84	A New Statistical Model for Predicting Seasonal North Atlantic Hurricane Activity. <i>Weather and Forecasting</i> , <b>2015</b> , 30, 730-741	2.1	12
83	Impacts of modified Richards equation on RegCM4 regional climate modeling over East Asia. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 12,642-12,659	4.4	12
82	Precipitation and precipitable water: Their temporal-spatial behaviors and use in determining monsoon onset/retreat and monsoon regions. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		12
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