

Dev Niyogi

List of Publications by Citations

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

239
papers

10,836
citations

55
h-index

96
g-index

257
ext. papers

12,885
ext. citations

4.4
avg, IF

6.42
L-index

#	Paper	IF	Citations
239	The community Noah land surface model with multiparameterization options (Noah-MP): 1. Model description and evaluation with local-scale measurements. <i>Journal of Geophysical Research</i> , 2011 , 116,		1106
238	Land use/land cover changes and climate: modeling analysis and observational evidence. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2011 , 2, 828-850	8.4	471
237	Land cover changes and their biogeophysical effects on climate. <i>International Journal of Climatology</i> , 2014 , 34, 929-953	3.5	410
236	The community Noah land surface model with multiparameterization options (Noah-MP): 2. Evaluation over global river basins. <i>Journal of Geophysical Research</i> , 2011 , 116,		329
235	An overview of regional land-use and land-cover impacts on rainfall. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 587-601	3.3	322
234	Urbanization signature in the observed heavy rainfall climatology over India. <i>International Journal of Climatology</i> , 2010 , 30, 1908-1916	3.5	213
233	Western Disturbances: A review. <i>Reviews of Geophysics</i> , 2015 , 53, 225-246	23.1	207
232	Description and Evaluation of the Characteristics of the NCAR High-Resolution Land Data Assimilation System. <i>Journal of Applied Meteorology and Climatology</i> , 2007 , 46, 694-713	2.7	206
231	Urban Modification of Thunderstorms: An Observational Storm Climatology and Model Case Study for the Indianapolis Urban Region. <i>Journal of Applied Meteorology and Climatology</i> , 2011 , 50, 1129-1144	2.7	182
230	Impacts of Land Use/Land Cover Change on Climate and Future Research Priorities. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 37-46	6.1	181
229	The impact of agricultural intensification and irrigation on land-atmosphere interactions and Indian monsoon precipitation [A mesoscale modeling perspective]. <i>Global and Planetary Change</i> , 2009 , 67, 117-128	4.2	151
228	WUDAPT: An Urban Weather, Climate, and Environmental Modeling Infrastructure for the Anthropocene. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1907-1924	6.1	149
227	Impacts of land use land cover on temperature trends over the continental United States: assessment using the North American Regional Reanalysis. <i>International Journal of Climatology</i> , 2010 , 30, 1980-1993	3.5	146
226	Changes in moisture and energy fluxes due to agricultural land use and irrigation in the Indian Monsoon Belt. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	141
225	Direct observations of the effects of aerosol loading on net ecosystem CO2 exchanges over different landscapes. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	140
224	Seventh grade students' conceptions of global warming and climate change. <i>Environmental Education Research</i> , 2009 , 15, 549-570	3.1	134
223	Trends and variability of droughts over the Indian monsoon region. <i>Weather and Climate Extremes</i> , 2016 , 12, 43-68	6	132

222	Evaluation of Temperature and Precipitation Trends and Long-Term Persistence in CMIP5 Twentieth-Century Climate Simulations. <i>Journal of Climate</i> , 2013 , 26, 4168-4185	4.4	126
221	Effect of Land-Atmosphere Interactions on the IHOP 24-25 May 2002 Convection Case. <i>Monthly Weather Review</i> , 2006 , 134, 113-133	2.4	125
220	Unresolved issues with the assessment of multidecadal global land surface temperature trends. <i>Journal of Geophysical Research</i> , 2007 , 112,		123
219	Observational evidence that agricultural intensification and land use change may be reducing the Indian summer monsoon rainfall. <i>Water Resources Research</i> , 2010 , 46,	5.4	114
218	Improving High-Resolution Weather Forecasts Using the Weather Research and Forecasting (WRF) Model with an Updated Kain-Fritsch Scheme. <i>Monthly Weather Review</i> , 2016 , 144, 833-860	2.4	104
217	2012 Midwest Drought in the United States. <i>Journal of Hydrologic Engineering - ASCE</i> , 2013 , 18, 737-745	1.8	101
216	Analysis of the 26 July 2005 heavy rain event over Mumbai, India using the Weather Research and Forecasting (WRF) model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 1897-1910	6.4	99
215	A new paradigm for assessing the role of agriculture in the climate system and in climate change. <i>Agricultural and Forest Meteorology</i> , 2007 , 142, 234-254	5.8	99
214	Urban and land surface effects on the 30 July 2003 mesoscale convective system event observed in the southern Great Plains. <i>Journal of Geophysical Research</i> , 2006 , 111,		97
213	The influence of large dams on surrounding climate and precipitation patterns. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	95
212	Analysis of the impacts of station exposure on the U.S. Historical Climatology Network temperatures and temperature trends. <i>Journal of Geophysical Research</i> , 2011 , 116,		82
211	Students' conceptions about the greenhouse effect, global warming, and climate change. <i>Climatic Change</i> , 2011 , 104, 481-507	4.5	82
210	A regional scale assessment of land use/land cover and climatic changes on water and energy cycle in the upper Midwest United States. <i>International Journal of Climatology</i> , 2010 , 30, 2025-2044	3.5	82
209	Effect of explicit urban land surface representation on the simulation of the 26 July 2005 heavy rain event over Mumbai, India. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5975-5995	6.8	81
208	The role of land surface processes on the mesoscale simulation of the July 26, 2005 heavy rain event over Mumbai, India. <i>Global and Planetary Change</i> , 2009 , 67, 87-103	4.2	79
207	Multi-sensor integrated framework and index for agricultural drought monitoring. <i>Remote Sensing of Environment</i> , 2017 , 188, 141-163	13.2	78
206	Increased Spatial Variability and Intensification of Extreme Monsoon Rainfall due to Urbanization. <i>Scientific Reports</i> , 2018 , 8, 3918	4.9	74
205	Urban drought challenge to 2030 sustainable development goals. <i>Science of the Total Environment</i> , 2019 , 693, 133536	10.2	71

204	Biofilm bacterial community structure in streams affected by acid mine drainage. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 3455-60	4.8	70
203	Impacts of the agricultural Green Revolution Induced land use changes on air temperatures in India. <i>Journal of Geophysical Research</i> , 2007 , 112,		70
202	Conceptualizing climate change in the context of a climate system: implications for climate and environmental education. <i>Environmental Education Research</i> , 2012 , 18, 323-352	3.1	69
201	Documentation of Uncertainties and Biases Associated with Surface Temperature Measurement Sites for Climate Change Assessment. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 913-928	6.1	67
200	Real-Time Track Prediction of Tropical Cyclones over the North Indian Ocean Using the ARW Model. <i>Journal of Applied Meteorology and Climatology</i> , 2013 , 52, 2476-2492	2.7	66
199	Cloudbursts in Indian Himalayas: A review. <i>Earth-Science Reviews</i> , 2017 , 168, 1-23	10.2	65
198	Evaluation of the Noah Land Surface Model Using Data from a Fair-Weather IHOP_2002 Day with Heterogeneous Surface Fluxes. <i>Monthly Weather Review</i> , 2008 , 136, 4915-4941	2.4	64
197	Summer monsoon convection in the Himalayan region: terrain and land cover effects. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, n/a-n/a	6.4	63
196	Contrasting impacts of urban forms on the future thermal environment: example of Beijing metropolitan area. <i>Environmental Research Letters</i> , 2016 , 11, 034018	6.2	62
195	Meta-analysis of urbanization impact on rainfall modification. <i>Scientific Reports</i> , 2019 , 9, 7301	4.9	60
194	A Surface Temperature Initiated Closure (STIC) for surface energy balance fluxes. <i>Remote Sensing of Environment</i> , 2014 , 141, 243-261	13.2	60
193	Ammonia assessment from agriculture: U.S. status and needs. <i>Journal of Environmental Quality</i> , 2008 , 37, 515-20	3.4	60
192	Assessment of the Weather Research and Forecasting (WRF) model for simulation of extreme rainfall events in the upper Ganga Basin. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1095-1117	5.5	60
191	Simulation of heavy rainfall events over Indian monsoon region using WRF-3DVAR data assimilation system. <i>Meteorology and Atmospheric Physics</i> , 2010 , 106, 107-125	2	59
190	Droughts in India from 1981 to 2013 and Implications to Wheat Production. <i>Scientific Reports</i> , 2017 , 7, 44552	4.9	58
189	Hydroclimatic Response of Watersheds to Urban Intensity: An Observational and Modeling-Based Analysis for the White River Basin, Indiana. <i>Journal of Hydrometeorology</i> , 2010 , 11, 122-138	3.7	58
188	Land use/cover change impacts in CMIP5 climate simulations: A new methodology and 21st century challenges. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6337-6353	4.4	57
187	Seventh grade students' mental models of the greenhouse effect. <i>Environmental Education Research</i> , 2011 , 17, 1-17	3.1	57

186	Global and Regional Evaluation of Energy for Water. <i>Environmental Science & Technology</i> , 2016 , 50, 9736-45	10.3	55
185	Evaluating the calculated dry deposition velocities of reactive nitrogen oxides and ozone from two community models over a temperate deciduous forest. <i>Atmospheric Environment</i> , 2011 , 45, 2663-2674	5.3	53
184	Do Earth and Environmental Science Textbooks Promote Middle and High School Students' Conceptual Development About Climate Change?. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 889-898	6.1	53
183	Potential impacts of aerosol and atmosphere interactions on the Indian monsoonal rainfall characteristics. <i>Natural Hazards</i> , 2007 , 42, 345-359	3	51
182	Quality of Crowdsourced Data on Urban Morphology: The Human Influence Experiment (HUMINEX). <i>Urban Science</i> , 2017 , 1, 15	2.2	50
181	Regional climate model application at subgrid scale on Indian winter monsoon over the western Himalayas. <i>International Journal of Climatology</i> , 2013 , 33, 2185-2205	3.5	50
180	Development and Evaluation of a Coupled Photosynthesis-Based Gas Exchange Evapotranspiration Model (GEM) for Mesoscale Weather Forecasting Applications. <i>Journal of Applied Meteorology and Climatology</i> , 2009 , 48, 349-368	2.7	50
179	Agriculture intensifies soil moisture decline in Northern China. <i>Scientific Reports</i> , 2015 , 5, 11261	4.9	49
178	Uncertainty in the Specification of Surface Characteristics, Part ii: Hierarchy of Interaction-Explicit Statistical Analysis. <i>Boundary-Layer Meteorology</i> , 1999 , 91, 341-366	3.4	47
177	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , 2019 , 25, 1591-1611	11.4	47
176	Improved Prediction of Bay of Bengal Tropical Cyclones through Assimilation of Doppler Weather Radar Observations. <i>Monthly Weather Review</i> , 2015 , 143, 4533-4560	2.4	46
175	Assessing Impacts of Integrating MODIS Vegetation Data in the Weather Research and Forecasting (WRF) Model Coupled to Two Different Canopy-Resistance Approaches. <i>Journal of Applied Meteorology and Climatology</i> , 2014 , 53, 1362-1380	2.7	46
174	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016 , 54, 2285-2303	8.1	45
173	Dealing With Complexity and Extreme Events Using a Bottom-Up, Resource-Based Vulnerability Perspective. <i>Geophysical Monograph Series</i> , 2012 , 345-359	1.1	45
172	Observational and Numerical Study on the Influence of Large-Scale Flow Direction and Coastline Shape on Sea-Breeze Evolution. <i>Boundary-Layer Meteorology</i> , 2004 , 111, 275-300	3.4	45
171	Urbanization Impacts on the Summer Heavy Rainfall Climatology over the Eastern United States. <i>Earth Interactions</i> , 2017 , 21, 1-17	1.5	43
170	Climate Feedback-Based Provisions for Dam Design, Operations, and Water Management in the 21st Century. <i>Journal of Hydrologic Engineering - ASCE</i> , 2012 , 17, 837-850	1.8	42
169	Temperature and equivalent temperature over the United States (1979-2005). <i>International Journal of Climatology</i> , 2010 , 30, 2045-2054	3.5	42

168	Urban Expansion in Ethiopia from 1987 to 2017: Characteristics, Spatial Patterns, and Driving Forces. <i>Sustainability</i> , 2019 , 11, 2973	3.6	41
167	Quantitative analysis of agricultural drought propagation process in the Yangtze River Basin by using cross wavelet analysis and spatial autocorrelation. <i>Agricultural and Forest Meteorology</i> , 2020 , 280, 107809	5.8	41
166	Possible relation between land surface feedback and the post-landfall structure of monsoon depressions. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	40
165	Estimation of the Minimum Canopy Resistance for Croplands and Grasslands Using Data from the 2002 International H2O Project. <i>Monthly Weather Review</i> , 2008 , 136, 4452-4469	2.4	40
164	Urban Modification of Convection and Rainfall in Complex Terrain. <i>Geophysical Research Letters</i> , 2018 , 45, 2507-2515	4.9	39
163	Impact of Doppler weather radar data on numerical forecast of Indian monsoon depressions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010 , 136, 1836-1850	6.4	39
162	UNCERTAINTY IN THE SPECIFICATION OF SURFACE CHARACTERISTICS: A STUDY OF PREDICTION ERRORS IN THE BOUNDARY LAYER. <i>Boundary-Layer Meteorology</i> , 1997 , 82, 475-502	3.4	38
161	Impact of city size on precipitation-modifying potential. <i>Geophysical Research Letters</i> , 2013 , 40, 5263-5267	4.9	37
160	Aerosol light scattering effect on terrestrial plant productivity and energy fluxes over the eastern United States. <i>Journal of Geophysical Research</i> , 2008 , 113,		36
159	The Sensitivity of Convective Initiation to the Lapse Rate of the Active Cloud-Bearing Layer. <i>Monthly Weather Review</i> , 2007 , 135, 3013-3032	2.4	36
158	Noah-MP-Crop: Introducing dynamic crop growth in the Noah-MP land surface model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,953-13,972	4.4	36
157	Evaluation of Evapotranspiration over a Semiarid Region Using Multiresolution Data Sources. <i>Journal of Hydrometeorology</i> , 2019 , 20, 947-964	3.7	34
156	Global to USA County Scale Analysis of Weather, Urban Density, Mobility, Homestay, and Mask Use on COVID-19. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	33
155	Hydrological Land Surface Response in a Tropical Regime and a Midlatitudinal Regime. <i>Journal of Hydrometeorology</i> , 2002 , 3, 39-56	3.7	33
154	Toward a better integration of biological data from precipitation manipulation experiments into Earth system models. <i>Reviews of Geophysics</i> , 2014 , 52, 412-434	23.1	32
153	Reintroducing radiometric surface temperature into the Penman-Monteith formulation. <i>Water Resources Research</i> , 2015 , 51, 6214-6243	5.4	32
152	Observed and global climate model based changes in wind power potential over the Northern Hemisphere during 1979-2016. <i>Energy</i> , 2019 , 167, 1224-1235	7.9	32
151	Evaluation of a Photosynthesis-Based Canopy Resistance Formulation in the Noah Land-Surface Model. <i>Boundary-Layer Meteorology</i> , 2011 , 138, 263-284	3.4	31

150	Urbanization causes nonstationarity in Indian Summer Monsoon Rainfall extremes. <i>Geophysical Research Letters</i> , 2016 , 43, 11,269	4.9	30
149	Prediction of rapid intensification of tropical cyclone Phailin over the Bay of Bengal using the HWRF modelling system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017 , 143, 678-690	6.4	30
148	A Method for Estimating Planetary Boundary Layer Heights and Its Application over the ARM Southern Great Plains Site. <i>Journal of Atmospheric and Oceanic Technology</i> , 2012 , 29, 316-322	2	30
147	NCAR/CU Surface, Soil, and Vegetation Observations during the International H2O Project 2002 Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 65-82	6.1	30
146	Application of A Simple Landsat-MODIS Fusion Model to Estimate Evapotranspiration over A Heterogeneous Sparse Vegetation Region. <i>Remote Sensing</i> , 2019 , 11, 741	5	30
145	Improved prediction of severe thunderstorms over the Indian Monsoon region using high-resolution soil moisture and temperature initialization. <i>Scientific Reports</i> , 2017 , 7, 41377	4.9	29
144	A Great Escape from the Bay of Bengal Super Sapphire Phailin Tropical Cyclone: A Case of Improved Weather Forecast and Societal Response for Disaster Mitigation. <i>Earth Interactions</i> , 2015 , 19, 1-11	1.5	29
143	Latent Heat Flux and Canopy Conductance Based on Penman-Monteith, Priestley-Taylor Equation, and Bouchet's Complementary Hypothesis. <i>Journal of Hydrometeorology</i> , 2013 , 14, 419-442	3.7	29
142	A need to revisit hydrologic responses to urbanization by incorporating the feedback on spatial rainfall patterns. <i>Urban Climate</i> , 2015 , 12, 128-140	6.8	28
141	Simulations of Cyclone Sidr in the Bay of Bengal with a high-resolution model: sensitivity to large-scale boundary forcing. <i>Meteorology and Atmospheric Physics</i> , 2011 , 114, 123-137	2	28
140	Workshop on Agricultural Air Quality: State of the science. <i>Atmospheric Environment</i> , 2008 , 42, 3195-3208	3.3	28
139	Potential individual versus simultaneous climate change effects on soybean (C3) and maize (C4) crops: An agrotechnology model based study. <i>Global and Planetary Change</i> , 2006 , 54, 163-182	4.2	28
138	SURF: Understanding and Predicting Urban Convection and Haze. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1391-1413	6.1	27
137	Climate Forecasts for Corn Producer Decision Making. <i>Earth Interactions</i> , 2014 , 18, 1-8	1.5	27
136	The Impacts of Indirect Soil Moisture Assimilation and Direct Surface Temperature and Humidity Assimilation on a Mesoscale Model Simulation of an Indian Monsoon Depression. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 1393-1412	2.7	27
135	Analysis of Mean Climate Conditions in Senegal (1971-98). <i>Earth Interactions</i> , 2006 , 10, 1-40	1.5	27
134	Modeling Urban Precipitation Modification by Spatially Heterogeneous Aerosols. <i>Journal of Applied Meteorology and Climatology</i> , 2017 , 56, 2141-2153	2.7	26
133	Urban Impacts on Extreme Monsoon Rainfall and Flooding in Complex Terrain. <i>Geophysical Research Letters</i> , 2019 , 46, 5918-5927	4.9	25

132	Evaluation and improvements of two community models in simulating dry deposition velocities for peroxyacetyl nitrate (PAN) over a coniferous forest. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		25
131	Evapotranspiration, crop coefficients, and physiological responses of citrus trees in semi-arid climatic conditions. <i>Agricultural Water Management</i> , 2020 , 227, 105838	5.9	25
130	Impact of Doppler weather radar data on thunderstorm simulation during STORM pilot phase-2009. <i>Natural Hazards</i> , 2014 , 74, 1403-1427	3	24
129	Modeling of Forecast Sensitivity on the March of Monsoon Isochrones from Kerala to New Delhi: The First 25 Days. <i>Journals of the Atmospheric Sciences</i> , 2012 , 69, 2465-2487	2.1	24
128	Urban Sprawl Patterns and Processes in Delhi from 1977 to 2014 Based on Remote Sensing and Spatial Metrics Approaches. <i>Earth Interactions</i> , 2016 , 20, 1-29	1.5	24
127	Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. <i>Urban Climate</i> , 2019 , 28, 100459	6.8	23
126	Development of the Flux-Adjusting Surface Data Assimilation System for Mesoscale Models. <i>Journal of Applied Meteorology and Climatology</i> , 2008 , 47, 2331-2350	2.7	22
125	Tropical cyclone intensification trends during satellite era (1986-2010). <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	21
124	Drought propagation in Northern China Plain: A comparative analysis of GLDAS and MERRA-2 datasets. <i>Journal of Hydrology</i> , 2020 , 588, 125026	6	20
123	Evapotranspiration in Northern Eurasia: Impact of forcing uncertainties on terrestrial ecosystem model estimates. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2647-2660	4.4	20
122	The Role of Landscape Processes within the Climate System. <i>Lecture Notes in Earth Sciences</i> , 2009 , 67-85		20
121	Regional comparison and assimilation of GOCART and MODIS aerosol optical depth across the eastern U.S.. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	20
120	Local-To-Regional Landscape Drivers of Extreme Weather and Climate: Implications for Water Infrastructure Resilience. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 02515002	1.8	19
119	Numerical simulation of an intense precipitation event over Rudraprayag in the central Himalayas during 13-14 September 2012. <i>Journal of Earth System Science</i> , 2015 , 124, 1545-1561	1.8	19
118	When the atmosphere warms it rains and ice melts: seventh grade students' conceptions of a climate system. <i>Environmental Education Research</i> , 2014 , 20, 333-353	3.1	19
117	A Hydroclimatological Assessment of Regional Drought Vulnerability: A Case Study of Indiana Droughts. <i>Earth Interactions</i> , 2011 , 15, 1-65	1.5	19
116	Urban Rainfall Modification: Observational Climatology Over Berlin, Germany. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 731-746	4.4	18
115	Structure and evolution of flash flood producing storms in a small urban watershed. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 3139-3152	4.4	18

114	Land Surface Heterogeneity Signature in Tornado Climatology? An Illustrative Analysis over Indiana, 1950-2012*. <i>Earth Interactions</i> , 2014 , 18, 1-32	1.5	18
113	The role of anomalous soil moisture on the inland reintensification of Tropical Storm Erin (2007). <i>Natural Hazards</i> , 2012 , 63, 1573-1600	3	18
112	Satellite-based modeling of transpiration from the grasslands in the Southern Great Plains, USA. <i>Global and Planetary Change</i> , 2009 , 67, 78-86	4.2	18
111	Evapotranspiration Climatology of Indiana Using In Situ and Remotely Sensed Products. <i>Journal of Applied Meteorology and Climatology</i> , 2020 , 59, 2093-2111	2.7	18
110	Calibration and Validation of the Hybrid-Maize Crop Model for Regional Analysis and Application over the U.S. Corn Belt. <i>Earth Interactions</i> , 2015 , 19, 1-16	1.5	17
109	Sensitivity of inland decay of North Atlantic tropical cyclones to soil parameters. <i>Natural Hazards</i> , 2012 , 63, 1527-1542	3	17
108	Evaluating a New Deposition Velocity Module in the Noah Land-Surface Model. <i>Boundary-Layer Meteorology</i> , 2010 , 137, 271-290	3.4	17
107	Climate Variability and the U.S. Corn Belt: ENSO and AO Episode-Dependent Hydroclimatic Feedbacks to Corn Production at Regional and Local Scales*. <i>Earth Interactions</i> , 2015 , 19, 1-32	1.5	16
106	Soil moisture regulates the biological response of elevated atmospheric CO ₂ concentrations in a coupled atmosphere biosphere model. <i>Global and Planetary Change</i> , 2006 , 54, 94-108	4.2	16
105	High-resolution gridded soil moisture and soil temperature datasets for the Indian monsoon region. <i>Scientific Data</i> , 2018 , 5, 180264	8.2	16
104	Urbanization alters rainfall extremes over the contiguous United States. <i>Environmental Research Letters</i> , 2020 , 15, 074033	6.2	15
103	Urbanization in Small Cities and Their Significant Implications on Landscape Structures: The Case in Ethiopia. <i>Sustainability</i> , 2020 , 12, 1235	3.6	15
102	Continental-scale multiobservation calibration and assessment of Colorado State University Unified Land Model by application of Moderate Resolution Imaging Spectroradiometer (MODIS) surface albedo. <i>Journal of Geophysical Research</i> , 2007 , 112,		15
101	Marine Boundary-Layer Variability Over The Indian Ocean During Indoex (1998). <i>Boundary-Layer Meteorology</i> , 2000 , 97, 411-430	3.4	15
100	Multi-ensemble regional simulation of Indian monsoon during contrasting rainfall years: role of convective schemes and nested domain. <i>Climate Dynamics</i> , 2018 , 50, 4127-4147	4.2	14
99	Impacts of land-atmosphere coupling on regional rainfall and convection. <i>Climate Dynamics</i> , 2015 , 44, 2383-2409	4.2	14
98	An HWRF-based ensemble assessment of the land surface feedback on the post-landfall intensification of Tropical Storm Fay (2008). <i>Natural Hazards</i> , 2012 , 63, 1543-1571	3	14
97	Back-trajectory analysis and source-receptor relationships: particulate matter and nitrogen isotopic composition in rainwater. <i>Journal of the Air and Waste Management Association</i> , 2008 , 58, 1215-22	2.4	14

96	The effect of satellite and conventional meteorological data assimilation on the mesoscale modeling of monsoon depressions over India. <i>Meteorology and Atmospheric Physics</i> , 2008 , 101, 65-92	2	14
95	Assessing Crop Water Stress Index of Citrus Using In-Situ Measurements, Landsat, and Sentinel-2 Data. <i>International Journal of Remote Sensing</i> , 2021 , 42, 1893-1916	3.1	14
94	Review of urban computing in air quality management as smart city service: An integrated IoT, AI, and cloud technology perspective. <i>Urban Climate</i> , 2021 , 39, 100972	6.8	14
93	Fast Weather Simulation for Inverse Procedural Design of 3D Urban Models. <i>ACM Transactions on Graphics</i> , 2017 , 36, 1-19	7.6	13
92	On the processes influencing rapid intensity changes of tropical cyclones over the Bay of Bengal. <i>Scientific Reports</i> , 2019 , 9, 3382	4.9	13
91	Improved simulation of very heavy rainfall events by incorporating WUDAPT urban land use/land cover in WRF. <i>Urban Climate</i> , 2020 , 32, 100616	6.8	13
90	Best management practices for corporate, academic and governmental transfer of sustainable technologies to developing countries. <i>Clean Technologies and Environmental Policy</i> , 2010 , 12, 19-30	4.3	13
89	Teleconnections between tropical pacific sea surface temperature anomalies and North Carolina precipitation anomalies during El Niño events. <i>Geophysical Research Letters</i> , 1998 , 25, 4201-4204	4.9	12
88	Effect of explicit urban land surface representation on the simulation of the 26 July 2005 heavy rain event over Mumbai, India		12
87	Land-Air Interactions over Urban-Rural Transects Using Satellite Observations: Analysis over Delhi, India from 1991-2016. <i>Remote Sensing</i> , 2017 , 9, 1283	5	11
86	Crop models capture the impacts of climate variability on corn yield. <i>Geophysical Research Letters</i> , 2015 , 42, 3356-3363	4.9	11
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