

Amir AghaKouchak

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.

216
papers

11,877
citations

60
h-index

103
g-index

232
ext. papers

15,532
ext. citations

7.7
avg, IF

7.23
L-index

#	Paper	IF	Citations
216	Future climate risk from compound events. <i>Nature Climate Change</i> , 2018 , 8, 469-477	21.4	530
215	Multivariate Standardized Drought Index: A parametric multi-index model. <i>Advances in Water Resources</i> , 2013 , 57, 12-18	4.7	419
214	Remote sensing of drought: Progress, challenges and opportunities. <i>Reviews of Geophysics</i> , 2015 , 53, 452-480	23.1	386
213	Global warming and changes in risk of concurrent climate extremes: Insights from the 2014 California drought. <i>Geophysical Research Letters</i> , 2014 , 41, 8847-8852	4.9	377
212	Substantial increase in concurrent droughts and heatwaves in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11484-9	11.5	287
211	Non-stationary extreme value analysis in a changing climate. <i>Climatic Change</i> , 2014 , 127, 353-369	4.5	269
210	Hydrologic evaluation of satellite precipitation products over a mid-size basin. <i>Journal of Hydrology</i> , 2011 , 397, 225-237	6	240
209	Global integrated drought monitoring and prediction system. <i>Scientific Data</i> , 2014 , 1, 140001	8.2	235
208	A generalized framework for deriving nonparametric standardized drought indicators. <i>Advances in Water Resources</i> , 2015 , 76, 140-145	4.7	213
207	Water and climate: Recognize anthropogenic drought. <i>Nature</i> , 2015 , 524, 409-11	50.4	210
206	A Nonparametric Multivariate Multi-Index Drought Monitoring Framework. <i>Journal of Hydrometeorology</i> , 2014 , 15, 89-101	3.7	210
205	Aral Sea syndrome desiccates Lake Urmia: Call for action. <i>Journal of Great Lakes Research</i> , 2015 , 41, 307-311	3.11	196
204	Evaluation of satellite-retrieved extreme precipitation rates across the central United States. <i>Journal of Geophysical Research</i> , 2011 , 116,		189
203	Compounding effects of sea level rise and fluvial flooding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 9785-9790	11.5	184
202	Nonstationary precipitation Intensity-Duration-Frequency curves for infrastructure design in a changing climate. <i>Scientific Reports</i> , 2014 , 4, 7093	4.9	179
201	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 333-342	3.62	179
200	Changes in concurrent monthly precipitation and temperature extremes. <i>Environmental Research Letters</i> , 2013 , 8, 034014	6.2	175

199	From TRMM to GPM: How well can heavy rainfall be detected from space?. <i>Advances in Water Resources</i> , 2016 , 88, 1-7	4.7	163
198	Advanced Concepts on Remote Sensing of Precipitation at Multiple Scales. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, 1353-1357	6.1	157
197	Iran's Socio-economic Drought: Challenges of a Water-Bankrupt Nation. <i>Iranian Studies</i> , 2016 , 49, 997-1016	6.4	156
196	Increasing probability of mortality during Indian heat waves. <i>Science Advances</i> , 2017 , 3, e1700066	14.3	149
195	Multivariate Copula Analysis Toolbox (MvCAT): Describing dependence and underlying uncertainty using a Bayesian framework. <i>Water Resources Research</i> , 2017 , 53, 5166-5183	5.4	142
194	A preliminary assessment of GPM-based multi-satellite precipitation estimates over a monsoon dominated region. <i>Journal of Hydrology</i> , 2018 , 556, 865-876	6	137
193	Evaluation of CMIP5 continental precipitation simulations relative to satellite-based gauge-adjusted observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1695-1707	4.4	137
192	Systematic and random error components in satellite precipitation data sets. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	135
191	On the key role of droughts in the dynamics of summer fires in Mediterranean Europe. <i>Scientific Reports</i> , 2017 , 7, 81	4.9	132
190	Temperature impacts on the water year 2014 drought in California. <i>Geophysical Research Letters</i> , 2015 , 42, 4384-4393	4.9	128
189	Climatic or regionally induced by humans? Tracing hydro-climatic and land-use changes to better understand the Lake Urmia tragedy. <i>Journal of Hydrology</i> , 2019 , 569, 203-217	6	122
188	Water shortages worsened by reservoir effects. <i>Nature Sustainability</i> , 2018 , 1, 617-622	22.1	122
187	Cumulative hazard: The case of nuisance flooding. <i>Earth's Future</i> , 2017 , 5, 214-223	7.9	111
186	Global trends and patterns of drought from space. <i>Theoretical and Applied Climatology</i> , 2014 , 117, 441-448	5.9	111
185	A multivariate approach for persistence-based drought prediction: Application to the 2010-2011 East Africa drought. <i>Journal of Hydrology</i> , 2015 , 526, 127-135	6	105
184	Trends in meteorological and agricultural droughts in Iran. <i>Theoretical and Applied Climatology</i> , 2015 , 119, 679-688	3	104
183	Climate Extremes and Compound Hazards in a Warming World. <i>Annual Review of Earth and Planetary Sciences</i> , 2020 , 48, 519-548	15.3	103
182	From Rain Tanks to Catchments: Use of Low-Impact Development To Address Hydrologic Symptoms of the Urban Stream Syndrome. <i>Environmental Science & Technology</i> , 2015 , 49, 11264-80	10.3	100

181	Increased nuisance flooding along the coasts of the United States due to sea level rise: Past and future. <i>Geophysical Research Letters</i> , 2015 , 42, 9846-9852	4.9	97
180	A baseline probabilistic drought forecasting framework using standardized soil moisture index: application to the 2012 United States drought. <i>Hydrology and Earth System Sciences</i> , 2014 , 18, 2485-2492	5.5	97
179	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020 , 10, 191-199	21.4	95
178	Understanding and managing connected extreme events. <i>Nature Climate Change</i> , 2020 , 10, 611-621	21.4	94
177	A near real-time satellite-based global drought climate data record. <i>Environmental Research Letters</i> , 2012 , 7, 044037	6.2	90
176	Rapid urbanization and changes in spatiotemporal characteristics of precipitation in Beijing metropolitan area. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 11,250-11,271	4.4	87
175	The PERSIANN family of global satellite precipitation data: a review and evaluation of products. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 5801-5816	5.5	85
174	Conditional simulation of remotely sensed rainfall data using a non-Gaussian v-transformed copula. <i>Advances in Water Resources</i> , 2010 , 33, 624-634	4.7	83
173	Probabilistic estimates of drought impacts on agricultural production. <i>Geophysical Research Letters</i> , 2017 , 44, 7799-7807	4.9	82
172	A hybrid framework for assessing socioeconomic drought: Linking climate variability, local resilience, and demand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7520-7533	4.4	82
171	Multihazard Scenarios for Analysis of Compound Extreme Events. <i>Geophysical Research Letters</i> , 2018 , 45, 5470-5480	4.9	82
170	Agricultural risks from changing snowmelt. <i>Nature Climate Change</i> , 2020 , 10, 459-465	21.4	78
169	Capabilities of satellite precipitation datasets to estimate heavy precipitation rates at different temporal accumulations. <i>Hydrological Processes</i> , 2014 , 28, 2262-2270	3.3	76
168	Quantifying climate change impacts on hydropower generation and implications on electric grid greenhouse gas emissions and operation. <i>Energy</i> , 2016 , 111, 295-305	7.9	73
167	A high resolution coupled hydrologic-hydraulic model (HiResFlood-UCI) for flash flood modeling. <i>Journal of Hydrology</i> , 2016 , 541, 401-420	6	73
166	How Has Human-Induced Climate Change Affected California Drought Risk?. <i>Journal of Climate</i> , 2016 , 29, 111-120	4.4	72
165	Improving Precipitation Estimation Using Convolutional Neural Network. <i>Water Resources Research</i> , 2019 , 55, 2301-2321	5.4	71
164	How well do CMIP5 climate simulations replicate historical trends and patterns of meteorological droughts?. <i>Water Resources Research</i> , 2015 , 51, 2847-2864	5.4	71

163	What Is Nuisance Flooding? Defining and Monitoring an Emerging Challenge. <i>Water Resources Research</i> , 2018 , 54, 4218-4227	5.4	71
162	Accounting for Uncertainties of the TRMM Satellite Estimates. <i>Remote Sensing</i> , 2009 , 1, 606-619	5	69
161	Predicting nonstationary flood frequencies: Evidence supports an updated stationarity thesis in the United States. <i>Water Resources Research</i> , 2017 , 53, 5469-5494	5.4	68
160	Extended contingency table: Performance metrics for satellite observations and climate model simulations. <i>Water Resources Research</i> , 2013 , 49, 7144-7149	5.4	67
159	Climate-informed environmental inflows to revive a drying lake facing meteorological and anthropogenic droughts. <i>Environmental Research Letters</i> , 2018 , 13, 084010	6.2	63
158	Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability. <i>Scientific Reports</i> , 2017 , 7, 6282	4.9	62
157	Quantifying Anthropogenic Stress on Groundwater Resources. <i>Scientific Reports</i> , 2017 , 7, 12910	4.9	60
156	Quantifying Changes in Future Intensity-Duration-Frequency Curves Using Multimodel Ensemble Simulations. <i>Water Resources Research</i> , 2018 , 54, 1751-1764	5.4	60
155	Error characterization of TRMM Multisatellite Precipitation Analysis (TMPA-3B42) products over India for different seasons. <i>Journal of Hydrology</i> , 2015 , 529, 1302-1312	6	59
154	Assessing the Impacts of Different WRF Precipitation Physics in Hurricane Simulations. <i>Weather and Forecasting</i> , 2012 , 27, 1003-1016	2.1	56
153	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , 2019 , 2, 515-523	22.1	55
152	Australia's drought: lessons for California. <i>Science</i> , 2014 , 343, 1430-1	33.3	54
151	Linking statistical and hydrodynamic modeling for compound flood hazard assessment in tidal channels and estuaries. <i>Advances in Water Resources</i> , 2019 , 128, 28-38	4.7	53
150	Global, Regional, and Megacity Trends in the Highest Temperature of the Year: Diagnostics and Evidence for Accelerating Trends. <i>Earth's Future</i> , 2018 , 6, 71-79	7.9	52
149	Review of snow cover variation over the Tibetan Plateau and its influence on the broad climate system. <i>Earth-Science Reviews</i> , 2020 , 201, 103043	10.2	52
148	Rainfall-triggered slope instabilities under a changing climate: comparative study using historical and projected precipitation extremes. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 117-127	3.2	51
147	Modeling Radar Rainfall Estimation Uncertainties: Random Error Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2010 , 15, 265-274	1.8	49
146	Seasonal and regional biases in CMIP5 precipitation simulations. <i>Climate Research</i> , 2014 , 60, 35-50	1.6	49

145	Compounding effects of human activities and climatic changes on surface water availability in Iran. <i>Climatic Change</i> , 2019 , 152, 379-391	4.5	49
144	Lessons from the Oroville dam. <i>Science</i> , 2017 , 355, 1139-1140	33.3	47
143	Entropy Copula in Hydrology and Climatology. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2176-2189	3.7	47
142	Geometrical Characterization of Precipitation Patterns. <i>Journal of Hydrometeorology</i> , 2011 , 12, 274-285	3.7	46
141	A water-energy balance approach for multi-category drought assessment across globally diverse hydrological basins. <i>Agricultural and Forest Meteorology</i> , 2019 , 264, 247-265	5.8	46
140	Century-scale causal relationships between global dry/wet conditions and the state of the Pacific and Atlantic Oceans. <i>Geophysical Research Letters</i> , 2016 , 43, 6528-6537	4.9	44
139	Flood Forecasting and Inundation Mapping Using HiResFlood-UCI and Near-Real-Time Satellite Precipitation Data: The 2008 Iowa Flood. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1171-1183	3.7	41
138	Mountain snowpack response to different levels of warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 10932-10937	11.5	41
137	A satellite-based global landslide model. <i>Natural Hazards and Earth System Sciences</i> , 2013 , 13, 1259-1267	3.9	40
136	A century of observations reveals increasing likelihood of continental-scale compound dry-hot extremes. <i>Science Advances</i> , 2020 , 6,	14.3	39
135	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , 2021 , 59, e2019RG000683	17.4	39
134	Evidence of anthropogenic impacts on global drought frequency, duration, and intensity. <i>Nature Communications</i> , 2021 , 12, 2754	17.4	39
133	A hybrid statistical-dynamical framework for meteorological drought prediction: Application to the southwestern United States. <i>Water Resources Research</i> , 2016 , 52, 5095-5110	5.4	38
132	A perturbation approach for assessing trends in precipitation extremes across Iran. <i>Journal of Hydrology</i> , 2014 , 519, 1420-1427	6	37
131	Going beyond the flood insurance rate map: insights from flood hazard map co-production. <i>Natural Hazards and Earth System Sciences</i> , 2018 , 18, 1097-1120	3.9	37
130	Increasing heat waves and warm spells in India, observed from a multiaspect framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3837-3858	4.4	36
129	Unraveling anthropogenic influence on the changing risk of heat waves in China. <i>Geophysical Research Letters</i> , 2017 , 44, 5078-5085	4.9	36
128	Amplified warming of droughts in southern United States in observations and model simulations. <i>Science Advances</i> , 2018 , 4, eaat2380	14.3	36

127	A Diagnostic Framework for Understanding Climatology of Tails of Hourly Precipitation Extremes in the United States. <i>Water Resources Research</i> , 2018 , 54, 6725-6738	5.4	35
126	Advancing the Remote Sensing of Precipitation. <i>Bulletin of the American Meteorological Society</i> , 2011 , 92, 1271-1272	6.1	34
125	Can Protracted Drought Undermine the Structural Integrity of California's Earthen Levees?. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016 , 142, 02516001	3.4	34
124	Elevation dependent warming over the Tibetan Plateau: Patterns, mechanisms and perspectives. <i>Earth-Science Reviews</i> , 2020 , 210, 103349	10.2	33
123	Global Precipitation Trends across Spatial Scales Using Satellite Observations. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 689-697	6.1	33
122	Translating climate change and heating system electrification impacts on building energy use to future greenhouse gas emissions and electric grid capacity requirements in California. <i>Applied Energy</i> , 2018 , 225, 522-534	10.7	33
121	Skillful forecasting of global fire activity using seasonal climate predictions. <i>Nature Communications</i> , 2018 , 9, 2718	17.4	31
120	A new interhemispheric teleconnection increases predictability of winter precipitation in southwestern US. <i>Nature Communications</i> , 2018 , 9, 2332	17.4	31
119	Estimation of tail dependence coefficient in rainfall accumulation fields. <i>Advances in Water Resources</i> , 2010 , 33, 1142-1149	4.7	30
118	Climate-Induced Changes in the Risk of Hydrological Failure of Major Dams in California. <i>Geophysical Research Letters</i> , 2019 , 46, 2130-2139	4.9	29
117	Latitudinal heterogeneity and hotspots of uncertainty in projected extreme precipitation. <i>Environmental Research Letters</i> , 2019 , 14, 124032	6.2	29
116	California drought increases CO2 footprint of energy. <i>Sustainable Cities and Society</i> , 2017 , 28, 450-452	10.1	28
115	Possible Increased Frequency of ENSO-Related Dry and Wet Conditions over Some Major Watersheds in a Warming Climate. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E409-E426	6.1	28
114	Compound hazards yield Louisiana flood. <i>Science</i> , 2016 , 353, 1374	33.3	28
113	The rise of compound warm-season droughts in Europe. <i>Science Advances</i> , 2021 , 7,	14.3	28
112	A new normal for streamflow in California in a warming climate: Wetter wet seasons and drier dry seasons. <i>Journal of Hydrology</i> , 2018 , 567, 203-211	6	28
111	Drought threatens California's levees. <i>Science</i> , 2015 , 349, 799	33.3	27
110	Making SDGs Work for Climate Change Hotspots. <i>Environment</i> , 2016 , 58, 24-33	2.8	27

109	Stochastic modeling of suspended sediment load in alluvial rivers. <i>Advances in Water Resources</i> , 2018 , 119, 188-196	4.7	27
108	Influence of irrigation on land hydrological processes over California. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 13,137-13,152	4.4	27
107	Precise Temporal Disaggregation Preserving Marginals and Correlations (DiPMaC) for Stationary and Nonstationary Processes. <i>Water Resources Research</i> , 2018 , 54, 7435-7458	5.4	27
106	Using GRACE Satellite Gravimetry for Assessing Large-Scale Hydrologic Extremes. <i>Remote Sensing</i> , 2017 , 9, 1287	5	26
105	Anthropogenic drought dominates groundwater depletion in Iran. <i>Scientific Reports</i> , 2021 , 11, 9135	4.9	26
104	Implications of hydropower variability from climate change for a future, highly-renewable electric grid in California. <i>Applied Energy</i> , 2019 , 237, 353-366	10.7	25
103	Domino effect of climate change over two millennia in ancient China's Hexi Corridor. <i>Nature Sustainability</i> , 2019 , 2, 957-961	22.1	25
102	Semi-parametric and Parametric Inference of Extreme Value Models for Rainfall Data. <i>Water Resources Management</i> , 2010 , 24, 1229-1249	3.7	25
101	Global snow drought hot spots and characteristics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19753-19759	11.5	25
100	Evaluating options for balancing the water-electricity nexus in California: part 1--securing water availability. <i>Science of the Total Environment</i> , 2014 , 497-498, 697-710	10.2	24
99	Evaluating options for balancing the water-electricity nexus in California: Part 2--greenhouse gas and renewable energy utilization impacts. <i>Science of the Total Environment</i> , 2014 , 497-498, 711-724	10.2	24
98	Copula-based uncertainty modelling: application to multisensor precipitation estimates. <i>Hydrological Processes</i> , 2010 , 24, n/a-n/a	3.3	24
97	GHWR, a multi-method global heatwave and warm-spell record and toolbox. <i>Scientific Data</i> , 2018 , 5, 180206	8.2	24
96	Resilience of MSE Walls with Marginal Backfill under a Changing Climate: Quantitative Assessment for Extreme Precipitation Events. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017 , 143, 04017056	3.4	23
95	A generalized framework for process-informed nonstationary extreme value analysis. <i>Advances in Water Resources</i> , 2019 , 130, 270-282	4.7	23
94	Shuffled Complex-Self Adaptive Hybrid Evolution (SC-SAHEL) optimization framework. <i>Environmental Modelling and Software</i> , 2018 , 104, 215-235	5.2	23
93	Unravelling Diurnal Asymmetry of Surface Temperature in Different Climate Zones. <i>Scientific Reports</i> , 2017 , 7, 7350	4.9	23
92	A vantage from space can detect earlier drought onset: an approach using relative humidity. <i>Scientific Reports</i> , 2015 , 5, 8553	4.9	23

91	The need to integrate flood and drought disaster risk reduction strategies. <i>Water Security</i> , 2020 , 11, 100070	3.8	23
90	Evaluation of CMIP6 precipitation simulations across different climatic zones: Uncertainty and model intercomparison. <i>Atmospheric Research</i> , 2021 , 250, 105369	5.4	23
89	Assessing climate change impacts on California hydropower generation and ancillary services provision. <i>Climatic Change</i> , 2018 , 151, 395-412	4.5	23
88	COSORE: A community database for continuous soil respiration and other soil-atmosphere greenhouse gas flux data. <i>Global Change Biology</i> , 2020 , 26, 7268-7283	11.4	22
87	Heat wave Intensity Duration Frequency Curve: A Multivariate Approach for Hazard and Attribution Analysis. <i>Scientific Reports</i> , 2019 , 9, 14117	4.9	21
86	Impacts of ozone and climate change on yields of perennial crops in California. <i>Nature Food</i> , 2020 , 1, 166-172	14.4	21
85	Projecting nuisance flooding in a warming climate using generalized linear models and Gaussian processes. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 8008-8020	3.3	21
84	A Framework for Global Multicategory and Multiscalar Drought Characterization Accounting for Snow Processes. <i>Water Resources Research</i> , 2019 , 55, 9258-9278	5.4	21
83	Increasing concurrence of wildfire drivers tripled megafire critical danger days in Southern California between 1982 and 2018. <i>Environmental Research Letters</i> , 2020 , 15, 104002	6.2	21
82	An educational model for ensemble streamflow simulation and uncertainty analysis. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 445-452	5.5	20
81	Changes in precipitation extremes in the Beijing metropolitan area during 1960-2012. <i>Atmospheric Research</i> , 2019 , 222, 134-153	5.4	19
80	Collaborative Modeling With Fine-Resolution Data Enhances Flood Awareness, Minimizes Differences in Flood Perception, and Produces Actionable Flood Maps. <i>Earth's Future</i> , 2020 , 8, e2019EF001391	7.9	19
79	Droughts in Amazonia: Spatiotemporal Variability, Teleconnections, and Seasonal Predictions. <i>Water Resources Research</i> , 2017 , 53, 10824-10840	5.4	19
78	Inferring land surface parameters from the diurnal variability of microwave and infrared temperatures. <i>Physics and Chemistry of the Earth</i> , 2015 , 83-84, 28-35	3	19
77	An object-based approach for verification of precipitation estimation. <i>International Journal of Remote Sensing</i> , 2015 , 36, 513-529	3.1	19
76	Precipitation Prediction Skill for the West Coast United States: From Short to Extended Range. <i>Journal of Climate</i> , 2019 , 32, 161-182	4.4	19
75	A comparison of three remotely sensed rainfall ensemble generators. <i>Atmospheric Research</i> , 2010 , 98, 387-399	5.4	17
74	Non-stationary return levels of CMIP5 multi-model temperature extremes. <i>Climate Dynamics</i> , 2015 , 44, 2947-2963	4.2	16

73	A Multi-Model Nonstationary Rainfall-Runoff Modeling Framework: Analysis and Toolbox. <i>Water Resources Management</i> , 2019 , 33, 3011-3024	3.7	14
72	Determination of water required to recover from hydrological drought: Perspective from drought propagation and non-standardized indices. <i>Journal of Hydrology</i> , 2020 , 590, 125227	6	14
71	Increasing exposure of energy infrastructure to compound hazards: cascading wildfires and extreme rainfall. <i>Environmental Research Letters</i> , 2019 , 14, 104018	6.2	13
70	Broad Consistency Between Satellite and Vegetation Model Estimates of Net Primary Productivity Across Global and Regional Scales. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 3603-3616	3.7	13
69	Assessing future water resource constraints on thermally based renewable energy resources in California. <i>Applied Energy</i> , 2018 , 226, 49-60	10.7	13
68	Geotechnical Engineering in the Face of Climate Change: Role of Multi-Physics Processes in Partially Saturated Soils 2018 ,		12
67	Unraveling the Role of Temperature and Rainfall on Active Fires in the Brazilian Amazon Using a Nonlinear Poisson Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 117-128	3.7	10
66	Classification of mechanisms, climatic context, areal scaling, and synchronization of floods: the hydroclimatology of floods in the Upper Paraná River basin, Brazil. <i>Earth System Dynamics</i> , 2017 , 8, 1071-1091	4.8	10
65	Exploring Trends through RainSphere—Research data transformed into public knowledge. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 653-658	6.1	9
64	A methodology for deriving ensemble response from multimodel simulations. <i>Journal of Hydrology</i> , 2015 , 522, 49-57	6	9
63	Data and analysis toolbox for modeling the nexus of food, energy, and water. <i>Sustainable Cities and Society</i> , 2020 , 61, 102281	10.1	9
62	Global Observations and CMIP6 Simulations of Compound Extremes of Monthly Temperature and Precipitation. <i>GeoHealth</i> , 2021 , 5, e2021GH000390	5	9
61	Object-Based Assessment of Satellite Precipitation Products. <i>Remote Sensing</i> , 2016 , 8, 547	5	9
60	Satellite-based remote sensing estimation of precipitation for early warning systems		8
59	Empirical Bayes estimation for the conditional extreme value model. <i>Stat</i> , 2014 , 3, 391-406	0.7	8
58	Effects of Climate Change on Fragility Curves of Earthen Levees Subjected to Extreme Precipitations 2017 ,		8
57	Advancing Precipitation Estimation, Prediction, and Impact Studies. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1584-E1592	6.1	8
56	When Environmental Forces Collide. <i>Eos</i> , 2018 , 99,	1.5	8

55	The interactions between hydrological drought evolution and precipitation-streamflow relationship. <i>Journal of Hydrology</i> , 2021 , 597, 126210	6	8
54	Chapter 3 : Water. Impacts, Risks, and Adaptation in the United States: The Fourth National Climate Assessment, Volume II 2018 ,		7
53	Quantifying increased fire risk in California in response to different levels of warming and drying. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 2023-2031	3.5	7
52	Approaching 80 years of snow water equivalent information by merging different data streams. <i>Scientific Data</i> , 2020 , 7, 333	8.2	7
51	Integrated data could augment resilience. <i>Science</i> , 2019 , 363, 134	33.3	7
50	Changes in the exposure of California levee-protected critical infrastructure to flooding hazard in a warming climate. <i>Environmental Research Letters</i> , 2020 , 15, 064032	6.2	7
49	Addressing Pluvial Flash Flooding through Community-Based Collaborative Research in Tijuana, Mexico. <i>Water (Switzerland)</i> , 2020 , 12, 1257	3	6
48	Preparing for proactive dam removal decisions. <i>Science</i> , 2020 , 369, 150	33.3	6
47	Methods of Tail Dependence Estimation. <i>Water Science and Technology Library</i> , 2013 , 163-179	0.3	6
46	Probabilistic hazard assessment of contaminated sediment in rivers. <i>Science of the Total Environment</i> , 2020 , 703, 134875	10.2	6
45	Levee Fragility Behavior under Projected Future Flooding in a Warming Climate. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020139	3.4	6
44	Spatial and temporal patterns of propagation from meteorological to hydrological droughts in Brazil. <i>Journal of Hydrology</i> , 2021 , 603, 126902	6	6
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