

Amir AghaKouchak

List of Publications by Year in Descending Order

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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	Probabilistic modeling of crop-yield loss risk under drought: a spatial showcase for sub-Saharan Africa. <i>Environmental Research Letters</i> , 2022 , 17, 024028	6.2	2
215	Performance Degradation of Levee-Protected Electric Power Network due to Flooding in a Changing Climate. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
214	Interdisciplinary Perspectives on Remote Sensing for Monitoring and Predicting Water-Related Hazards. <i>Geophysical Monograph Series</i> , 2022 , 1-9	1.1	
213	Drought Monitoring Based on Remote Sensing. <i>Geophysical Monograph Series</i> , 2022 , 149-168	1.1	
212	Remote Sensing of Vegetation Responses to Drought Disturbances Using Spaceborne Optical and Near-Infrared Sensors. <i>Geophysical Monograph Series</i> , 2022 , 169-186	1.1	
211	Streamflow droughts aggravated by human activities despite management. <i>Environmental Research Letters</i> , 2022 , 17, 044059	6.2	1
210	Discrepancies in changes in precipitation characteristics over the contiguous United States based on six daily gridded precipitation datasets. <i>Weather and Climate Extremes</i> , 2022 , 36, 100433	6	0
209	Anthropogenic influence on the changing risk of heat waves over India.. <i>Scientific Reports</i> , 2022 , 12, 33374.9	4.9	0
208	How much water did Iran lose over the last two decades?. <i>Journal of Hydrology: Regional Studies</i> , 2022 , 41, 101095	3.6	2
207	Northern Hemisphere drought risk in a warming climate. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	3
206	Probabilistic Assessment of Extreme Heat Stress on Indian Wheat Yields Under Climate Change. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094702	4.9	0
205	Biases Beyond the Mean in CMIP6 Extreme Precipitation: A Global Investigation. <i>Earth's Future</i> , 2021 , 9, e2021EF002196	7.9	5
204	Extreme heat events heighten soil respiration. <i>Scientific Reports</i> , 2021 , 11, 6632	4.9	2
203	Anthropogenic drought dominates groundwater depletion in Iran. <i>Scientific Reports</i> , 2021 , 11, 9135	4.9	26
202	Open Science: Open Data, Open Models, and Open Publications?. <i>Water Resources Research</i> , 2021 , 57, e2020WR029480	5.4	2
201	Anthropogenic Drought: Definition, Challenges, and Opportunities. <i>Reviews of Geophysics</i> , 2021 , 59, e2019RG000683	13.1	99
200	Intense agricultural irrigation induced contrasting precipitation changes in Saudi Arabia. <i>Environmental Research Letters</i> , 2021 , 16, 064049	6.2	1

199	Global Observations and CMIP6 Simulations of Compound Extremes of Monthly Temperature and Precipitation. <i>GeoHealth</i> , 2021 , 5, e2021GH000390	5	9
198	Evidence of anthropogenic impacts on global drought frequency, duration, and intensity. <i>Nature Communications</i> , 2021 , 12, 2754	17.4	39
197	The interactions between hydrological drought evolution and precipitation-streamflow relationship. <i>Journal of Hydrology</i> , 2021 , 597, 126210	6	8
196	Are we ready for more dam removals in the United States?. <i>Environmental Research: Infrastructure and Sustainability</i> , 2021 , 1, 013001		4
195	Evaluation of CMIP6 precipitation simulations across different climatic zones: Uncertainty and model intercomparison. <i>Atmospheric Research</i> , 2021 , 250, 105369	5.4	23
194	Enabling incremental adaptation in disadvantaged communities: polycentric governance with a focus on non-financial capital. <i>Climate Policy</i> , 2021 , 21, 396-405	5.3	2
193	The rise of compound warm-season droughts in Europe. <i>Science Advances</i> , 2021 , 7,	14.3	28
192	The adaptive benefits of agricultural water markets in California. <i>Environmental Research Letters</i> , 2021 , 16, 044036	6.2	2
191	Progress, Challenges, and Opportunities in Remote Sensing of Drought. <i>Geophysical Monograph Series</i> , 2021 , 1-28	1.1	1
190	A Multivariate Conditional Probability Ratio Framework for the Detection and Attribution of Compound Climate Extremes. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094361	4.9	1
189	Spatial and temporal patterns of propagation from meteorological to hydrological droughts in Brazil. <i>Journal of Hydrology</i> , 2021 , 603, 126902	6	6
188	Understanding and managing connected extreme events. <i>Nature Climate Change</i> , 2020 , 10, 611-621	21.4	94
187	A typology of compound weather and climate events. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 333-347	36.2	179
186	Addressing Pluvial Flash Flooding through Community-Based Collaborative Research in Tijuana, Mexico. <i>Water (Switzerland)</i> , 2020 , 12, 1257	3	6
185	Impacts of ozone and climate change on yields of perennial crops in California. <i>Nature Food</i> , 2020 , 1, 166-172	14.4	21
184	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
183	Effect of Compound Flooding on Performance of Earthen Levees 2020 ,		3
182	Preparing for proactive dam removal decisions. <i>Science</i> , 2020 , 369, 150	33.3	6

181	Flash droughts present a new challenge for subseasonal-to-seasonal prediction. <i>Nature Climate Change</i> , 2020 , 10, 191-199	21.4	95
180	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
179	Natural Disasters Are Prejudiced Against Disadvantaged and Vulnerable Populations: The Lack of Publicly Available Health-Related Data Hinders Research at the Cusp of the Global Climate Crisis. <i>GeoHealth</i> , 2020 , 4, e2019GH000219	5	0
178	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 ¹⁹	7.9	19
177	Agricultural risks from changing snowmelt. <i>Nature Climate Change</i> , 2020 , 10, 459-465	21.4	78
176	The hydrogeochemistry of shallow groundwater from Lut Desert, Iran: The hottest place on Earth. <i>Journal of Arid Environments</i> , 2020 , 178, 104143	2.5	5
175	Advancing Precipitation Estimation, Prediction, and Impact Studies. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1584-E1592	6.1	8
174	Adaptive Infrastructure To Mitigate Future Climate Risk: Building Upon Our Geotechnical Engineering Heritage. <i>Geo-strata</i> , 2020 , 24, 28-35	0	
173	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
172	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
171	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}	6.1	28
170	Probabilistic hazard assessment of contaminated sediment in rivers. <i>Science of the Total Environment</i> , 2020 , 703, 134875	10.2	6
169	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
168	Elevation dependent warming over the Tibetan Plateau: Patterns, mechanisms and perspectives. <i>Earth-Science Reviews</i> , 2020 , 210, 103349	10.2	33
167	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
166	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
165	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
164	The need to integrate flood and drought disaster risk reduction strategies. <i>Water Security</i> , 2020 , 11, 100070	3.8	23

163	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
162	Approaching 80 years of snow water equivalent information by merging different data streams. <i>Scientific Data</i> , 2020 , 7, 333	8.2	7
161	A century of observations reveals increasing likelihood of continental-scale compound dry-hot extremes. <i>Science Advances</i> , 2020 , 6,	14.3	39
160	Using GRACE satellite observations for separating meteorological variability from anthropogenic impacts on water availability. <i>Scientific Reports</i> , 2020 , 10, 15098	4.9	4
159	Integrating Climatic and Physical Information in a Bayesian Hierarchical Model of Extreme Daily Precipitation. <i>Water (Switzerland)</i> , 2020 , 12, 2211	3	1
158	A Model Tree Generator (MTG) Framework for Simulating Hydrologic Systems: Application to Reservoir Routing. <i>Water (Switzerland)</i> , 2020 , 12, 2373	3	5
157	Changes in the exposure of California's levee-protected critical infrastructure to flooding hazard in a warming climate. <i>Environmental Research Letters</i> , 2020 , 15, 064032	6.2	7
156	Heat wave Intensity Duration Frequency Curve: A Multivariate Approach for Hazard and Attribution Analysis. <i>Scientific Reports</i> , 2019 , 9, 14117	4.9	21
155	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
154	A generalized framework for process-informed nonstationary extreme value analysis. <i>Advances in Water Resources</i> , 2019 , 130, 270-282	4.7	23
153	A Multi-Model Nonstationary Rainfall-Runoff Modeling Framework: Analysis and Toolbox. <i>Water Resources Management</i> , 2019 , 33, 3011-3024	3.7	14
152	Flexibility and intensity of global water use. <i>Nature Sustainability</i> , 2019 , 2, 515-523	22.1	55
151	Improving Precipitation Estimation Using Convolutional Neural Network. <i>Water Resources Research</i> , 2019 , 55, 2301-2321	5.4	71
150	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
149	Changes in precipitation extremes in the Beijing metropolitan area during 1960-2012. <i>Atmospheric Research</i> , 2019 , 222, 134-153	5.4	19
148	Analyzing High-Frequency Soil Respiration Using a Probabilistic Model in a Semiarid, Mediterranean Climate. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 509-520	3.7	2
147	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
146	Reply to: A critical examination of a newly proposed interhemispheric teleconnection to Southwestern US winter precipitation. <i>Nature Communications</i> , 2019 , 10, 2918	17.4	3

145	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
144	Increasing exposure of energy infrastructure to compound hazards: cascading wildfires and extreme rainfall. <i>Environmental Research Letters</i> , 2019 , 14, 104018	6.2	13
143	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
142	Latitudinal heterogeneity and hotspots of uncertainty in projected extreme precipitation. <i>Environmental Research Letters</i> , 2019 , 14, 124032	6.2	29
141	A dataset on human perception of and response to wildfire smoke. <i>Scientific Data</i> , 2019 , 6, 229	8.2	3
140	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
139	Integrated data could augment resilience. <i>Science</i> , 2019 , 363, 134	33.3	7
138	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
137	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
136	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
135	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
134	Quantifying Changes in Future Intensity-Duration-Frequency Curves Using Multimodel Ensemble Simulations. <i>Water Resources Research</i> , 2018 , 54, 1751-1764	5.4	60
133	Shuffled Complex-Self Adaptive Hybrid Evolution (SC-SAHEL) optimization framework. <i>Environmental Modelling and Software</i> , 2018 , 104, 215-235	5.2	23
132	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
131	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
130	Amplified warming of droughts in southern United States in observations and model simulations. <i>Science Advances</i> , 2018 , 4, eaat2380	14.3	36
129	Stochastic modeling of suspended sediment load in alluvial rivers. <i>Advances in Water Resources</i> , 2018 , 119, 188-196	4.7	27
128	Skillful forecasting of global fire activity using seasonal climate predictions. <i>Nature Communications</i> , 2018 , 9, 2718	17.4	31

127	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
126	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
125	A new interhemispheric teleconnection increases predictability of winter precipitation in southwestern US. <i>Nature Communications</i> , 2018 , 9, 2332	17.4	31
124	Geotechnical Engineering in the Face of Climate Change: Role of Multi-Physics Processes in Partially Saturated Soils 2018 ,		12
123	Chapter 3 : Water. Impacts, Risks, and Adaptation in the United States: The Fourth National Climate Assessment, Volume II 2018 ,		7
122	When Environmental Forces Collide. <i>Eos</i> , 2018 , 99,	1.5	8
121	GHWR, a multi-method global heatwave and warm-spell record and toolbox. <i>Scientific Data</i> , 2018 , 5, 180206	8.2	24
120	Global Precipitation Trends across Spatial Scales Using Satellite Observations. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 689-697	6.1	33
119	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
118	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
117	Water shortages worsened by reservoir effects. <i>Nature Sustainability</i> , 2018 , 1, 617-622	22.1	122
116	Assessing climate change impacts on California hydropower generation and ancillary services provision. <i>Climatic Change</i> , 2018 , 151, 395-412	4.5	23
115	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
114	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
113	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
112	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
111	Assessing future water resource constraints on thermally based renewable energy resources in California. <i>Applied Energy</i> , 2018 , 226, 49-60	10.7	13
110	What Is Nuisance Flooding? Defining and Monitoring an Emerging Challenge. <i>Water Resources Research</i> , 2018 , 54, 4218-4227	5.4	71

109	Multihazard Scenarios for Analysis of Compound Extreme Events. <i>Geophysical Research Letters</i> , 2018 , 45, 5470-5480	4.9	82
108	Future climate risk from compound events. <i>Nature Climate Change</i> , 2018 , 8, 469-477	21.4	530
107	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
106	Cumulative hazard: The case of nuisance flooding. <i>Earth's Future</i> , 2017 , 5, 214-223	7.9	111
105	Increasing heat waves and warm spells in India, observed from a multispect framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 3837-3858	4.4	36
104	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
103	Unraveling anthropogenic influence on the changing risk of heat waves in China. <i>Geophysical Research Letters</i> , 2017 , 44, 5078-5085	4.9	36
102	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
101	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
100	Increasing probability of mortality during Indian heat waves. <i>Science Advances</i> , 2017 , 3, e1700066	14.3	149
99	Lessons from the Oroville dam. <i>Science</i> , 2017 , 355, 1139-1140	33.3	47
98	Quantifying Anthropogenic Stress on Groundwater Resources. <i>Scientific Reports</i> , 2017 , 7, 12910	4.9	60
97	Using GRACE Satellite Gravimetry for Assessing Large-Scale Hydrologic Extremes. <i>Remote Sensing</i> , 2017 , 9, 1287	5	26
96	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
95	Compounding Impacts of Human-Induced Water Stress and Climate Change on Water Availability. <i>Scientific Reports</i> , 2017 , 7, 6282	4.9	62
94	Unravelling Diurnal Asymmetry of Surface Temperature in Different Climate Zones. <i>Scientific Reports</i> , 2017 , 7, 7350	4.9	23
93	Exploring Trends through BainSphere —Research data transformed into public knowledge. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 653-658	6.1	9
92	Effects of Climate Change on Fragility Curves of Earthen Levees Subjected to Extreme Precipitations 2017 ,		8

91	Multi-Sensor Remote Sensing of Drought from Space. <i>Springer Remote Sensing/photogrammetry</i> , 2017 , 219-247	0.2	2
90	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
89	California drought increases CO2 footprint of energy. <i>Sustainable Cities and Society</i> , 2017 , 28, 450-452	10.1	28
88	Droughts in Amazonia: Spatiotemporal Variability, Teleconnections, and Seasonal Predictions. <i>Water Resources Research</i> , 2017 , 53, 10824-10840	5.4	19
87	Probabilistic estimates of drought impacts on agricultural production. <i>Geophysical Research Letters</i> , 2017 , 44, 7799-7807	4.9	82
86	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
85	Translating Uncertain Sea Level Projections Into Infrastructure Impacts Using a Bayesian Framework. <i>Geophysical Research Letters</i> , 2017 , 44, 11,914-11,921	4.9	5
84	Classification of mechanisms, climatic context, areal scaling, and synchronization of floods: the hydroclimatology of floods in the Upper ParanRiver basin, Brazil. <i>Earth System Dynamics</i> , 2017 , 8, 1071-1091	4.8	10
83	Advancements in Satellite Remote Sensing for Drought Monitoring. <i>Drought and Water Crises</i> , 2017 , 225-258		2
82	How Has Human-Induced Climate Change Affected California Drought Risk?. <i>Journal of Climate</i> , 2016 , 29, 111-120	4.4	72
81	A large-scale methane model by incorporating the surface water transport. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 1657-1674	3.7	5
80	Making SDGs Work for Climate Change Hotspots. <i>Environment</i> , 2016 , 58, 24-33	2.8	27
79	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
78	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
77	A high resolution coupled hydrologicHydraulic model (HiResFlood-UCI) for flash flood modeling. <i>Journal of Hydrology</i> , 2016 , 541, 401-420	6	73
76	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
75	Co-development of coastal flood models: Making the leap from expert analysis to decision support 2016 , 3-3		1
74	Object-Based Assessment of Satellite Precipitation Products. <i>Remote Sensing</i> , 2016 , 8, 547	5	9

73	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
72	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
71	Iran's Socio-economic Drought: Challenges of a Water-Bankrupt Nation. <i>Iranian Studies</i> , 2016 , 49, 997-1016	16.4	156
70	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
69	Compound hazards yield Louisiana flood. <i>Science</i> , 2016 , 353, 1374	33.3	28
68	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
67	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
66	Drought threatens California's levees. <i>Science</i> , 2015 , 349, 799	33.3	27
65	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
64	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
63	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
62	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
61	Trends in meteorological and agricultural droughts in Iran. <i>Theoretical and Applied Climatology</i> , 2015 , 119, 679-688	3	104
60	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
59	Temperature impacts on the water year 2014 drought in California. <i>Geophysical Research Letters</i> , 2015 , 42, 4384-4393	4.9	128
58	Remote sensing of drought: Progress, challenges and opportunities. <i>Reviews of Geophysics</i> , 2015 , 53, 452-480	23.1	386
57	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
56	Water and climate: Recognize anthropogenic drought. <i>Nature</i> , 2015 , 524, 409-11	50.4	210

55	A vantage from space can detect earlier drought onset: an approach using relative humidity. <i>Scientific Reports</i> , 2015 , 5, 8553	4.9	23
54	Non-stationary return levels of CMIP5 multi-model temperature extremes. <i>Climate Dynamics</i> , 2015 , 44, 2947-2963	4.2	16
53	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
52	A generalized framework for deriving nonparametric standardized drought indicators. <i>Advances in Water Resources</i> , 2015 , 76, 140-145	4.7	213
51	An object-based approach for verification of precipitation estimation. <i>International Journal of Remote Sensing</i> , 2015 , 36, 513-529	3.1	19
50	Aral Sea syndrome desiccates Lake Urmia: Call for action. <i>Journal of Great Lakes Research</i> , 2015 , 41, 307-311		196
49	A methodology for deriving ensemble response from multimodel simulations. <i>Journal of Hydrology</i> , 2015 , 522, 49-57	6	9
48	Nonstationary precipitation Intensity-Duration-Frequency curves for infrastructure design in a changing climate. <i>Scientific Reports</i> , 2014 , 4, 7093	4.9	179
47	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
46	A perturbation approach for assessing trends in precipitation extremes across Iran. <i>Journal of Hydrology</i> , 2014 , 519, 1420-1427	6	37
45	Non-stationary extreme value analysis in a changing climate. <i>Climatic Change</i> , 2014 , 127, 353-369	4.5	269
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