Ataur Rahman

List of Publications by Year in Descending Order

127 papers	3,098 citations	29 h-index	51 g-index
139 ext. papers	3,815 ext. citations	4.7 avg, IF	5.88 L-index

#	Paper	IF	Citations
127	A Bibliometric Analysis of Drought Indices, Risk, and Forecast as Components of Drought Early Warning Systems. *Water (Switzerland)*, **2022**, 14, 253	3	3
126	Disinfection methods for domestic rainwater harvesting systems: A scoping review. *Journal of Water Process Engineering*, **2022**, 46, 102542	6.7	3
125	Harvested Rainwater as a Solution for Marine Pollution and Contaminated Groundwater. *Encyclopedia of the UN Sustainable Development Goals*, **2022**, 466-477	0.1	
124	Community-Scale Rural Drinking Water Supply Systems Based on Harvested Rainwater: A Case Study of Australia and Vietnam. *Water (Switzerland)*, **2022**, 14, 1763	3	2
123	Regional Flood Frequency Analysis Using the FCM-ANFIS Algorithm: A Case Study in South-Eastern Australia. *Water (Switzerland)*, **2022**, 14, 1608	3	1
122	Production of Fresh Water by a Solar Still: An Experimental Case Study in Australia. *Water (Switzerland)*, **2021**, 13, 3373	3	2
121	Application of GIS in Rainwater Harvesting Research: A Scoping Review. *Asian Journal of Water, Environment and Pollution*, **2021**, 18, 29-35	0.7	0
120	Improving Household Agriculture with Roof-Harvested Rainwater: A Case Study in Sydney and Nairobi. *Water (Switzerland)*, **2021**, 13, 2920	3	0
119	A continental scale evaluation of rainwater harvesting in Australia. *Resources, Conservation and Recycling*, **2021**, 167, 105378	11.9	12
118	Impact of droughts on child mortality: a case study in Southern African countries. *Natural Hazards*, **2021**, 108, 2211-2224	3	1
117	Impact of Land Cover Changes on Land Surface Temperature and Human Thermal Comfort in Dhaka City of Bangladesh. *Earth Systems and Environment*, **2021**, 5, 667-693	7.5	22
116	Effects of Probability-Distributed Losses on Flood Estimates Using Event-Based Rainfall-Runoff Models. *Water (Switzerland)*, **2021**, 13, 2049	3	2
115	Identification of homogeneous rainfall regions in New South Wales, Australia. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2021**, 73, 1-11	2	2
114	A Case Study on Reliability, Water Demand and Economic Analysis of Rainwater Harvesting in Australian Capital Cities. *Water (Switzerland)*, **2021**, 13, 2606	3	2
113	Experimental investigation of an integrated rainwater harvesting unit for drinking water production at the household level. *Journal of Water Process Engineering*, **2021**, 44, 102318	6.7	4
112	Feasibility analysis of a small-scale rainwater harvesting system for drinking water production at Werrington, New South Wales, Australia. *Journal of Cleaner Production*, **2020**, 270, 122437	10.3	28
111	Roof-Harvested Rainwater Use in Household Agriculture: Contributions to the Sustainable Development Goals. *Water (Switzerland)*, **2020**, 12, 332	3	9

110	Sea outfall disposal of stormwater in Doha Bay: Risk assessment based on dispersion modelling. *Science of the Total Environment*, **2020**, 732, 139305	10.2	2
109	A Network Approach for Delineating Homogeneous Regions in Regional Flood Frequency Analysis. *Water Resources Research*, **2020**, 56, e2019WR025910	5.4	11
108	Application of Principal Component Analysis and Cluster Analysis in Regional Flood Frequency Analysis: A Case Study in New South Wales, Australia. *Water (Switzerland)*, **2020**, 12, 781	3	7
107	Distribution of Heavy Metals in Vegetative Biofiltration Columns. *Water (Switzerland)*, **2020**, 12, 747	3	0
106	Suitability of roof harvested rainwater for potential potable water production: A scoping review. *Journal of Cleaner Production*, **2020**, 248, 119226	10.3	37
105	Application of independent component analysis in regional flood frequency analysis: Comparison between quantile regression and parameter regression techniques. *Journal of Hydrology*, **2020**, 581, 124372	6	8
104	Sustainability in Water Provision in Rural Communities: the Feasibility of a Village Scale Rainwater Harvesting Scheme. *Water Resources Management*, **2020**, 34, 4633-4647	3.7	5
103	Use of design curves in the implementation of a rainwater harvesting system. *Journal of Cleaner Production*, **2020**, 261, 121292	10.3	5
102	Regional Flood Frequency Analysis Using An Artificial Neural Network Model. *Geosciences (Switzerland)*, **2020**, 10, 127	2.7	6
101	Examination of Changes in Flood Data in Australia. *Water (Switzerland)*, **2019**, 11, 1734	3	4
100	Sustainable Water Use in Construction **2019**, 211-235		1
99	Permeable pavement as a stormwater best management practice: a review and discussion. *Environmental Earth Sciences*, **2019**, 78, 1	2.9	27
98	First flush analysis using a rainfall simulator on a micro catchment in an arid climate. *Science of the Total Environment*, **2019**, 693, 133552	10.2	17
97	Enhanced denitrification by design modifications to the standard permeable pavement structure. *Journal of Cleaner Production*, **2019**, 237, 117721	10.3	7
96	Development of a Large Flood Regionalisation Model Considering Spatial Dependence Application to Ungauged Catchments in Australia. *Water (Switzerland)*, **2019**, 11, 677	3	2
95	Assessment of Climate Change Impacts on IDF Curves in Qatar Using Ensemble Climate Modeling Approach. *Springer Water*, **2019**, 153-169	0.3	4
94	Uncertainty analysis in design rainfall estimation due to limited data length: A case study in Qatar **2019**, 37-45		2
93	Design rainfall estimation: comparison between GEV and LP3 distributions and at-site and regional estimates. *Natural Hazards*, **2018**, 93, 67-88	3	7

92	Development of regional flood frequency analysis techniques using generalized additive models for Australia. *Stochastic Environmental Research and Risk Assessment*, **2018**, 32, 123-139	3.5	31
91	Economic analysis of rainwater harvesting systems comparing developing and developed countries: A case study of Australia and Kenya. *Journal of Cleaner Production*, **2018**, 172, 196-207	10.3	53
90	Characterizing changes in rainfall: a case study for New South Wales, Australia. *International Journal of Climatology*, **2018**, 38, 1452-1462	3.5	12
89	Monte Carlo simulation for design flood estimation: a review of Australian practice. *Australian Journal of Water Resources*, **2018**, 22, 52-70	1.2	2
88	A scoping review of roof harvested rainwater usage in urban agriculture: Australia and Kenya in focus. *Journal of Cleaner Production*, **2018**, 202, 174-190	10.3	28
87	A Comparative Assessment of Variable Selection Methods in Urban Water Demand Forecasting. *Water (Switzerland)*, **2018**, 10, 419	3	20
86	A blended learning approach to teach fluid mechanics in engineering. *European Journal of Engineering Education*, **2017**, 42, 252-259	1.5	13
85	Selection of the best fit probability distribution in rainfall frequency analysis for Qatar. *Natural Hazards*, **2017**, 86, 281-296	3	12
84	Urban rainwater harvesting systems: Research, implementation and future perspectives. *Water Research*, **2017**, 115, 195-209	12.5	264
83	Applicability of a physically based soil water model (SWMOD) in design flood estimation in eastern Australia **2017**, 48, 1652-1665		4
82	Heat transfer coefficients and yield analysis of a double-slope solar still hybrid with rubber scrapers: An experimental and theoretical study. *Desalination*, **2017**, 407, 61-74	10.3	22
81	Trends in extreme rainfall in the state of New South Wales, Australia. *Hydrological Sciences Journal*, **2017**, 62, 2160-2174	3.5	18
80	Hourly yield prediction of a double-slope solar still hybrid with rubber scrapers in low-latitude areas based on the particle swarm optimization technique. *Applied Energy*, **2017**, 203, 280-303	10.7	19
79	The knowledge, awareness, attitude and motivational analysis of plastic waste and household perspective in Malaysia. *Environmental Science and Pollution Research*, **2017**, 24, 2304-2315	5.1	38
78	Water Demand Modelling Using Independent Component Regression Technique. *Water Resources Management*, **2017**, 31, 299-312	3.7	19
77	Flood estimation in ungauged catchments: application of artificial intelligence based methods for Eastern Australia. *Stochastic Environmental Research and Risk Assessment*, **2017**, 31, 1499-1514	3.5	23
76	Rainfall in Qatar: Is it changing?. *Natural Hazards*, **2017**, 85, 453-470	3	18
75	Recent Advances in Modelling and Implementation of Rainwater Harvesting Systems towards Sustainable Development. *Water (Switzerland)*, **2017**, 9, 959	3	15

74	Evaluation of climate change impacts on rainwater harvesting. *Journal of Cleaner Production*, **2016**, 137, 60-69	10.3	75
73	Development of Artificial Intelligence Based Regional Flood Estimation Techniques for Eastern Australia. *Studies in Computational Intelligence*, **2016**, 307-323	0.8	2
72	Design rainfall in Qatar: sensitivity to climate change scenarios. *Natural Hazards*, **2016**, 81, 1797-1810	3	17
71	Estimation of Large to Extreme Floods Using a Regionalization Model. *Springer Geography*, **2016**, 279-292	0.4	1
70	Economic Analysis and Feasibility of Rainwater Harvesting Systems in Urban and Peri-Urban Environments: A Review of the Global Situation with a Special Focus on Australia and Kenya. *Water (Switzerland)*, **2016**, 8, 149	3	73
69	Single lot on site detention requirements in New South Wales Australia and its relation to holistic storm water management. *Sustainability of Water Quality and Ecology*, **2015**, 6, 48-56		3
68	ANSYS finite element design of an energy saving magneto-rheological damper with improved dispersion stability. *Journal of Mechanical Science and Technology*, **2015**, 29, 2793-2802	1.6	11
67	Design flood estimation in ungauged catchments using genetic algorithm-based artificial neural network (GAANN) technique for Australia. *Natural Hazards*, **2015**, 77, 805-821	3	16
66	How Individual Values and Attitude Influence Consumers Purchase Intention of Electric Vehicles Some Insights from Kuala Lumpur, Malaysia. *Environment and Urbanization ASIA*, **2015**, 6, 193-211	1.4	24
65	Assessing the significance of climate and community factors on urban water demand. *International Journal of Sustainable Built Environment*, **2015**, 4, 222-230		29
64	Parameter uncertainty of the AWBM model when applied to an ungauged catchment. *Hydrological Processes*, **2015**, 29, 1493-1504	3.3	6
63	Applicability of Wakeby distribution in flood frequency analysis: a case study for eastern Australia. *Hydrological Processes*, **2015**, 29, 602-614	3.3	14
62	Detection of changes in flood data in Victoria, Australia from 1975 to 2011 **2015**, 46, 763-776		6
61	Trends in water quality data in the Hawkesbury Nepean River System, Australia. *Journal of Water and Climate Change*, **2015**, 6, 816-830	2.3	1
60	Probabilistic nature of storage delay parameter of the hydrologic model RORB: a case study for the Cooper's Creek catchment in Australia **2015**, 46, 400-410		4
59	Regionalisation of the parameters of the log-Pearson 3 distribution: a case study for New South Wales, Australia. *Hydrological Processes*, **2015**, 29, 250-260	3.3	18
58	Estimation of catchment yield and associated uncertainties due to climate change in a mountainous catchment in Australia. *Hydrological Processes*, **2015**, 29, 4339-4349	3.3	12
57	Regional flood frequency analysis method for Tasmania, Australia: a case study on the comparison of fixed region and region-of-influence approaches. *Hydrological Sciences Journal*, **2015**, 60, 2086-2101	3.5	18

56	Comparing three methods to form regions for design rainfall statistics: Two case studies in Australia. *Journal of Hydrology*, **2015**, 527, 62-76	6	13
55	The prospects of panel style nano-battery technology for EV/HEV **2015**,		1
54	Rainwater Tanks as a Means of Water Reuse and Conservation in Urban Areas **2015**, 805-814		0
53	Quantification of Water Savings due to Drought Restrictions in Water Demand Forecasting Models. *Journal of Water Resources Planning and Management - ASCE*, **2014**, 140, 04014035	2.8	19
52	Derivation of new design rainfall in Qatar using L-moment based index frequency approach. *International Journal of Sustainable Built Environment*, **2014**, 3, 111-118		16
51	Rainwater utilization from roof catchments in arid regions: A case study for Australia. *Journal of Arid Environments*, **2014**, 111, 35-41	2.5	25
50	Assessing uncertainty in pollutant wash-off modelling via model validation. *Science of the Total Environment*, **2014**, 497-498, 578-584	10.2	8
49	Quantifying uncertainty in rainfall–runoff models due to design losses using Monte Carlo simulation: a case study in New South Wales, Australia. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 2149-2159	3.5	14
48	Derivation of short-duration design rainfalls using daily rainfall statistics. *Natural Hazards*, **2014**, 74, 1391-1401	3	18
47	Application of Monte Carlo simulation technique for flood estimation for two catchments in New South Wales, Australia. *Natural Hazards*, **2014**, 74, 1475-1488	3	7
46	A Bayesian regression approach to assess uncertainty in pollutant wash-off modelling. *Science of the Total Environment*, **2014**, 479-480, 233-40	10.2	8
45	Energy efficient electromagnetic actuated CVT system. *Journal of Mechanical Science and Technology*, **2014**, 28, 1153-1160	1.6	4
44	Probabilistic Water Demand Forecasting Using Projected Climatic Data for Blue Mountains Water Supply System in Australia. *Water Resources Management*, **2014**, 28, 1959-1971	3.7	18
43	Modeling of a lot scale rainwater tank system in XP-SWMM: a case study in Western Sydney, Australia. *Journal of Environmental Management*, **2014**, 141, 177-89	7.9	18
42	Trends in sub-hourly, sub-daily and daily extreme rainfall events in eastern Australia. *Journal of Water and Climate Change*, **2014**, 5, 667-675	2.3	16
41	Development of regionalized joint probability approach to flood estimation: a case study for Eastern New South Wales, Australia. *Hydrological Processes*, **2014**, 28, 4001-4010	3.3	14
40	Supporting immunization programs with improved vaccine cold chain information systems **2014**,		8
39	Reliability and Cost Analysis of a Rainwater Harvesting System in Peri-Urban Regions of Greater Sydney, Australia. *Water (Switzerland)*, **2014**, 6, 945-960	3	57

38	Parameters affecting the performance of a low cost solar still. *Applied Energy*, **2014**, 114, 924-930	10.7	106
37	Application of artificial neural networks in regional flood frequency analysis: a case study for Australia. *Stochastic Environmental Research and Risk Assessment*, **2014**, 28, 541-554	3.5	66
36	A study on selection of probability distributions for at-site flood frequency analysis in Australia. *Natural Hazards*, **2013**, 69, 1803-1813	3	72
35	Application of Monte Carlo Simulation Technique to Design Flood Estimation: A Case Study for North Johnstone River in Queensland, Australia. *Water Resources Management*, **2013**, 27, 4099-4111	3.7	30
34	Applicability of Monte Carlo cross validation technique for model development and validation using generalised least squares regression. *Journal of Hydrology*, **2013**, 482, 119-128	6	40
33	Evaluating the non-stationarity of Australian annual maximum flood. *Journal of Hydrology*, **2013**, 494, 134-145	6	108
32	Uncertainty analysis of pollutant build-up modelling based on a Bayesian weighted least squares approach. *Science of the Total Environment*, **2013**, 449, 410-7	10.2	21
31	Modelling stormwater treatment systems using MUSIC: Accuracy. *Resources, Conservation and Recycling*, **2013**, 71, 15-21	11.9	28
30	Life cycle cost analysis of a sustainable solar water distillation technique. *Desalination and Water Treatment*, **2013**, 51, 7412-7419		20
29	Design, fabrication and performance analysis of an improved solar still. *Desalination*, **2012**, 292, 105-112	10.3	86
28	Rainwater harvesting in Greater Sydney: Water savings, reliability and economic benefits. *Resources, Conservation and Recycling*, **2012**, 61, 16-21	11.9	138
27	Regional flood frequency analysis in eastern Australia: Bayesian GLS regression-based methods within fixed region and ROI framework Quantile Regression vs. Parameter Regression Technique. *Journal of Hydrology*, **2012**, 430-431, 142-161	6	77
26	Regional flood frequency analysis using Bayesian generalized least squares: a comparison between quantile and parameter regression techniques. *Hydrological Processes*, **2012**, 26, 1008-1021	3.3	62
25	Reliability analysis of rainwater tanks: A comparison between South-East and Central Melbourne. *Resources, Conservation and Recycling*, **2012**, 66, 1-7	11.9	36
24	Regional flood frequency analysis in arid regions: A case study for Australia. *Journal of Hydrology*, **2012**, 475, 74-83	6	60
23	Design Flood Estimation in Ungauged Catchments: A Comparison Between the Probabilistic Rational Method and Quantile Regression Technique for NSW. *Australian Journal of Water Resources*, **2011**, 14, 127-139	1.2	16
22	Comparison of Ordinary and Generalised Least Squares Regression Models in Regional Flood Frequency Analysis: A Case Study for New South Wales. *Australian Journal of Water Resources*, **2011**, 15, 59-70	1.2	10
21	Reliability analysis of rainwater tanks in Melbourne using daily water balance model. *Resources, Conservation and Recycling*, **2011**, 56, 80-86	11.9	69

20	Scaling property of regional floods in New South Wales Australia. *Natural Hazards*, **2011**, 58, 1155-1167	3	30
19	Selection of the best fit flood frequency distribution and parameter estimation procedure: a case study for Tasmania in Australia. *Stochastic Environmental Research and Risk Assessment*, **2011**, 25, 415-428	3.5	71
18	Design rainfall estimation in Australia: a case study using L moments and Generalized Least Squares Regression. *Stochastic Environmental Research and Risk Assessment*, **2011**, 25, 815-825	3.5	40
17	Cushion pressure control system for an intelligent air-cushion track vehicle. *Journal of Mechanical Science and Technology*, **2011**, 25, 1035-1041	1.6	13
16	Optimisation of rainwater tank design from large roofs: A case study in Melbourne, Australia. *Resources, Conservation and Recycling*, **2011**, 55, 1022-1029	11.9	103
15	Regional Flood Estimation in New South Wales Australia Using Generalized Least Squares Quantile Regression. *Journal of Hydrologic Engineering - ASCE*, **2011**, 16, 920-925	1.8	14
14	Distance associated with marriage migration in a northern and a southern region of Bangladesh: an empirical study. *Journal of Biosocial Science*, **2010**, 42, 577-86	1.6	4
13	Streamflow data Preparation for Regional Flood Frequency Analysis: Lessons from Southeast Australia. *Australian Journal of Water Resources*, **2010**, 14, 17-32	1.2	37
12	Regional Flood Modelling: Use of Monte Carlo Cross-Validation for the Best Model Selection **2010**,		1
11	Rainwater tanks in multi-unit buildings: A case study for three Australian cities. *Resources, Conservation and Recycling*, **2010**, 54, 1449-1452	11.9	99
10	Investigation of design rainfall temporal patterns in the Gold Coast region of Queensland. *Australian Journal of Water Resources*, **2006**, 10, 49-61	1.2	2
9	A quantile regression technique to estimate design floods for ungauged catchments in south-east Australia. *Australian Journal of Water Resources*, **2005**, 9, 81-89	1.2	22
8	The Use of Probability-Distributed Initial Losses in Design Flood Estimation. *Australian Journal of Water Resources*, **2002**, 6, 17-29	1.2	14
7	Monte Carlo simulation of flood frequency curves from rainfall. *Journal of Hydrology*, **2002**, 256, 196-210	6	106
6	Climatic and physical factors that influence the homogeneity of regional floods in southeastern Australia. *Water Resources Research*, **1998**, 34, 3369-3381	5.4	38
5	Comparison of annual maximum and peaks-over-threshold methods with automated threshold selection in flood frequency analysis: a case study for Australia. *Natural Hazards*,1	3	1
4	Teaching of Fluid Mechanics in Engineering Course. *Advances in Higher Education and Professional Development Book Series*,12-20	0.2	2
3	Teaching of Fluid Mechanics in Engineering Course1093-1101		1

2	Spatiotemporal meteorological drought assessment: a case study in south-east Australia. *Natural Hazards*,1	3	2
1	Peaks-over-threshold model in flood frequency analysis: a scoping review. *Stochastic Environmental Research and Risk Assessment*,1	3.5	2