Ataur Rahman

List of Publications by Year
in descending order

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135 papers	4,708 citations	125106 35 h-index	139680 61 g-index
139 all docs	139 docs citations	139 times ranked	3617 citing authors

#	Article	IF	Citations
1	Identification of homogeneous rainfall regions in New South Wales, Australia. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 73, 1907979.	0.8	6
2	Spatiotemporal meteorological drought assessment: a case study in south-east Australia. Natural Hazards, 2022, 111, 305-332.	1.6	6
3	Comparison of annual maximum and peaks-over-threshold methods with automated threshold selection in flood frequency analysis: a case study for Australia. Natural Hazards, 2022, 111, 1219-1244.	1.6	7
4	Disinfection methods for domestic rainwater harvesting systems: A scoping review. Journal of Water Process Engineering, 2022, 46, 102542.	2.6	19
5	A Bibliometric Analysis of Drought Indices, Risk, and Forecast as Components of Drought Early Warning Systems. Water (Switzerland), 2022, 14, 253.	1.2	11
6	Peaks-over-threshold model in flood frequency analysis: a scoping review. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2419-2435.	1.9	18
7	Homogeneity and trend analysis of rainfall and droughts over Southeast Australia. Natural Hazards, 2022, 112, 1657-1683.	1.6	20
8	Harvested Rainwater as a Solution for Marine Pollution and Contaminated Groundwater. Encyclopedia of the UN Sustainable Development Goals, 2022, , 466-477.	0.0	0
9	Community-Scale Rural Drinking Water Supply Systems Based on Harvested Rainwater: A Case Study of Australia and Vietnam. Water (Switzerland), 2022, 14, 1763.	1.2	7
10	Regional Flood Frequency Analysis Using the FCM-ANFIS Algorithm: A Case Study in South-Eastern Australia. Water (Switzerland), 2022, 14, 1608.	1.2	10
11	Selection of the Best Fit Probability Distributions for Daily Maximum Temperature Data in Six Australian Capital Cities. , 2022, , .		0
12	Regional Flood Frequency Analysis Based on Peaks-over-Threshold Model: A Case Study for South-East Australia. , 2022, , .		0
13	A Review and Analysis of Water Research, Development, and Management in Bangladesh. Water (Switzerland), 2022, 14, 1834.	1.2	2
14	Green roof as an effective tool for sustainable urban development: An Australian perspective in relation to stormwater and building energy management. Journal of Cleaner Production, 2022, 362, 132561.	4.6	32
15	A continental scale evaluation of rainwater harvesting in Australia. Resources, Conservation and Recycling, 2021, 167, 105378.	5.3	26
16	Impact of droughts on child mortality: a case study in Southern African countries. Natural Hazards, 2021, 108, 2211-2224.	1.6	7
17	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.	3.0	83
18	Effects of Probability-Distributed Losses on Flood Estimates Using Event-Based Rainfall-Runoff Models. Water (Switzerland), 2021, 13, 2049.	1.2	7

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19	A Case Study on Reliability, Water Demand and Economic Analysis of Rainwater Harvesting in Australian Capital Cities. Water (Switzerland), 2021, 13, 2606.	1.2	16
20	Experimental investigation of an integrated rainwater harvesting unit for drinking water production at the household level. Journal of Water Process Engineering, 2021, 44, 102318.	2.6	20
21	Improving Household Agriculture with Roof-Harvested Rainwater: A Case Study in Sydney and Nairobi. Water (Switzerland), 2021, 13, 2920.	1.2	2
22	Production of Fresh Water by a Solar Still: An Experimental Case Study in Australia. Water (Switzerland), 2021, 13, 3373.	1.2	3
23	Application of GIS in Rainwater Harvesting Research: A Scoping Review. Asian Journal of Water, Environment and Pollution, 2021, 18, 29-35.	0.4	3
24	Rainwater Harvesting for Sustainable Developments: Non-Potable Use, Household Irrigation and Stormwater Management. Water (Switzerland), 2021, 13, 3460.	1.2	3
25	Suitability of roof harvested rainwater for potential potable water production: A scoping review. Journal of Cleaner Production, 2020, 248, 119226.	4.6	79
26	Application of independent component analysis in regional flood frequency analysis: Comparison between quantile regression and parameter regression techniques. Journal of Hydrology, 2020, 581, 124372.	2.3	19
27	Sustainability in Water Provision in Rural Communities: the Feasibility of a Village Scale Rainwater Harvesting Scheme. Water Resources Management, 2020, 34, 4633-4647.	1.9	19
28	Use of design curves in the implementation of a rainwater harvesting system. Journal of Cleaner Production, 2020, 261, 121292.	4.6	11
29	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.	4.6	51
30	Roof-Harvested Rainwater Use in Household Agriculture: Contributions to the Sustainable Development Goals. Water (Switzerland), 2020, 12, 332.	1.2	15
31	Sea outfall disposal of stormwater in Doha Bay: Risk assessment based on dispersion modelling. Science of the Total Environment, 2020, 732, 139305.	3.9	6
32	A Network Approach for Delineating Homogeneous Regions in Regional Flood Frequency Analysis. Water Resources Research, 2020, 56, e2019WR025910.	1.7	19
33	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.	1.2	24
34	Distribution of Heavy Metals in Vegetative Biofiltration Columns. Water (Switzerland), 2020, 12, 747.	1.2	1
35	Regional Flood Frequency Analysis Using An Artificial Neural Network Model. Geosciences (Switzerland), 2020, 10, 127.	1.0	13
36	First flush analysis using a rainfall simulator on a micro catchment in an arid climate. Science of the Total Environment, 2019, 693, 133552.	3.9	28

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37	Enhanced denitrification by design modifications to the standard permeable pavement structure. Journal of Cleaner Production, 2019, 237, 117721.	4.6	14
38	Development of a Large Flood Regionalisation Model Considering Spatial Dependenceâ€"Application to Ungauged Catchments in Australia. Water (Switzerland), 2019, 11, 677.	1.2	3
39	Examination of Changes in Flood Data in Australia. Water (Switzerland), 2019, 11, 1734.	1.2	10
40	Sustainable Water Use in Construction. , 2019, , 211-235.		8
41	Permeable pavement as a stormwater best management practice: a review and discussion. Environmental Earth Sciences, 2019, 78, 1.	1.3	54
42	Uncertainty analysis in design rainfall estimation due to limited data length: A case study in Qatar. , 2019, , 37-45.		4
43	Assessment of Climate Change Impacts on IDF Curves in Qatar Using Ensemble Climate Modeling Approach. Springer Water, 2019, , 153-169.	0.2	4
44	Design rainfall estimation: comparison between GEV and LP3 distributions and at-site and regional estimates. Natural Hazards, 2018, 93, 67-88.	1.6	10
45	Development of regional flood frequency analysis techniques using generalized additive models for Australia. Stochastic Environmental Research and Risk Assessment, 2018, 32, 123-139.	1.9	46
46	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.	4.6	78
47	Characterizing changes in rainfall: a case study for New South Wales, Australia. International Journal of Climatology, 2018, 38, 1452-1462.	1.5	18
48	A Comparative Assessment of Variable Selection Methods in Urban Water Demand Forecasting. Water (Switzerland), 2018, 10, 419.	1.2	36
49	Monte Carlo simulation for design flood estimation: a review of Australian practice. Australian Journal of Water Resources, 2018, 22, 52-70.	1.6	4
50	A scoping review of roof harvested rainwater usage in urban agriculture: Australia and Kenya in focus. Journal of Cleaner Production, 2018, 202, 174-190.	4.6	50
51	A blended learning approach to teach fluid mechanics in engineering. European Journal of Engineering Education, 2017, 42, 252-259.	1.5	25
52	Selection of the best fit probability distribution in rainfall frequency analysis for Qatar. Natural Hazards, 2017, 86, 281-296.	1.6	27
53	Urban rainwater harvesting systems: Research, implementation and future perspectives. Water Research, 2017, 115, 195-209.	5.3	420
54	Applicability of a physically based soil water model (SWMOD) in design flood estimation in eastern Australia. Hydrology Research, 2017, 48, 1652-1665.	1.1	4

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55	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.	4.0	30
56	Trends in extreme rainfall in the state of New South Wales, Australia. Hydrological Sciences Journal, 2017, 62, 2160-2174.	1.2	29
57	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.	5.1	26
58	The knowledge, awareness, attitude and motivational analysis of plastic waste and household perspective in Malaysia. Environmental Science and Pollution Research, 2017, 24, 2304-2315.	2.7	76
59	Water Demand Modelling Using Independent Component Regression Technique. Water Resources Management, 2017, 31, 299-312.	1.9	30
60	Flood estimation in ungauged catchments: application of artificial intelligence based methods for Eastern Australia. Stochastic Environmental Research and Risk Assessment, 2017, 31, 1499-1514.	1.9	32
61	Rainfall in Qatar: Is it changing?. Natural Hazards, 2017, 85, 453-470.	1.6	27
62	Recent Advances in Modelling and Implementation of Rainwater Harvesting Systems towards Sustainable Development. Water (Switzerland), 2017, 9, 959.	1.2	24
63	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.	1.2	100
64	Evaluation of climate change impacts on rainwater harvesting. Journal of Cleaner Production, 2016, 137, 60-69.	4.6	111
65	Development of Artificial Intelligence Based Regional Flood Estimation Techniques for Eastern Australia. Studies in Computational Intelligence, 2016, , 307-323.	0.7	3
66	Design rainfall in Qatar: sensitivity to climate change scenarios. Natural Hazards, 2016, 81, 1797-1810.	1.6	21
67	Estimation of Large to Extreme Floods Using a Regionalization Model. Springer Geography, 2016, , 279-292.	0.3	2
68	Detection of changes in flood data in Victoria, Australia from 1975 to 2011. Hydrology Research, 2015, 46, 763-776.	1.1	7
69	Trends in water quality data in the Hawkesburyâ€“Nepean River System, Australia. Journal of Water and Climate Change, 2015, 6, 816-830.	1.2	3
70	Probabilistic nature of storage delay parameter of the hydrologic model RORB: a case study for the Cooper's Creek catchment in Australia. Hydrology Research, 2015, 46, 400-410.	1.1	5
71	Regionalisation of the parameters of the log-Pearson 3 distribution: a case study for New South Wales, Australia. Hydrological Processes, 2015, 29, 250-260.	1.1	29
72	Estimation of catchment yield and associated uncertainties due to climate change in a mountainous catchment in Australia. Hydrological Processes, 2015, 29, 4339-4349.	1.1	19

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73	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.	1.2	21
74	Comparing three methods to form regions for design rainfall statistics: Two case studies in Australia. Journal of Hydrology, 2015, 527, 62-76.	2.3	17
75	The prospects of panel style nano-battery technology for EV/HEV. , 2015, , .		1
76	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.	2.0	5
77	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.	0.7	11
78	Design flood estimation in ungauged catchments using genetic algorithm-based artificial neural network (GAANN) technique for Australia. Natural Hazards, 2015, 77, 805-821.	1.6	25
79	How Individual Values and Attitude Influence Consumersâ€™ Purchase Intention of Electric Vehiclesâ€"Some Insights from Kuala Lumpur, Malaysia. Environment and Urbanization ASIA, 2015, 6, 193-211.	0.9	35
80	Assessing the significance of climate and community factors on urban water demand. International Journal of Sustainable Built Environment, 2015, 4, 222-230.	3.2	38
81	Parameter uncertainty of the AWBM model when applied to an ungauged catchment. Hydrological Processes, 2015, 29, 1493-1504.	1.1	6
82	Applicability of Wakeby distribution in flood frequency analysis: a case study for eastern Australia. Hydrological Processes, 2015, 29, 602-614.	1.1	22
83	Rainwater Tanks as a Means of Water Reuse and Conservation in Urban Areas. , 2015, , 805-814.		2
84	Reliability and Cost Analysis of a Rainwater Harvesting System in Peri-Urban Regions of Greater Sydney, Australia. Water (Switzerland), 2014, 6, 945-960.	1.2	74
85	Parameters affecting the performance of a low cost solar still. Applied Energy, 2014, 114, 924-930.	5.1	151
86	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.	1.9	98
87	Quantification of Water Savings due to Drought Restrictions in Water Demand Forecasting Models. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	24
88	Derivation of new design rainfall in Qatar using L-moment based index frequency approach. International Journal of Sustainable Built Environment, 2014, 3, 111-118.	3.2	27
89	Rainwater utilization from roof catchments in arid regions: A case study for Australia. Journal of Arid Environments, 2014, 111, 35-41.	1.2	38
90	Assessing uncertainty in pollutant wash-off modelling via model validation. Science of the Total Environment, 2014, 497-498, 578-584.	3.9	9

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91	Quantifying uncertainty in rainfallâ€“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.	1.9	16
92	Derivation of short-duration design rainfalls using daily rainfall statistics. Natural Hazards, 2014, 74, 1391-1401.	1.6	12
93	Application of Monte Carlo simulation technique for flood estimation for two catchments in New South Wales, Australia. Natural Hazards, 2014, 74, 1475-1488.	1.6	10
94	A Bayesian regression approach to assess uncertainty in pollutant wash-off modelling. Science of the Total Environment, 2014, 479-480, 233-240.	3.9	8
95	Energy efficient electromagnetic actuated CVT system. Journal of Mechanical Science and Technology, 2014, 28, 1153-1160.	0.7	6
96	Probabilistic Water Demand Forecasting Using Projected Climatic Data for Blue Mountains Water Supply System in Australia. Water Resources Management, 2014, 28, 1959-1971.	1.9	27
97	Modeling of a lot scale rainwater tank system in XP-SWMM: A case study in Western Sydney, Australia. Journal of Environmental Management, 2014, 141, 177-189.	3.8	24
98	Trends in sub-hourly, sub-daily and daily extreme rainfall events in eastern Australia. Journal of Water and Climate Change, 2014, 5, 667-675.	1.2	24
99	Development of regionalized joint probability approach to flood estimation: a case study for Eastern New South Wales, Australia. Hydrological Processes, 2014, 28, 4001-4010.	1.1	19
100	Supporting immunization programs with improved vaccine cold chain information systems. , 2014, , .		11
101	A study on selection of probability distributions for at-site flood frequency analysis in Australia. Natural Hazards, 2013, 69, 1803-1813.	1.6	105
102	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.	1.9	38
103	Applicability of Monte Carlo cross validation technique for model development and validation using generalised least squares regression. Journal of Hydrology, 2013, 482, 119-128.	2.3	53
104	Evaluating the non-stationarity of Australian annual maximum flood. Journal of Hydrology, 2013, 494, 134-145.	2.3	143
105	Uncertainty analysis of pollutant build-up modelling based on a Bayesian weighted least squares approach. Science of the Total Environment, 2013, 449, 410-417.	3.9	21
106	Modelling stormwater treatment systems using MUSIC: Accuracy. Resources, Conservation and Recycling, 2013, 71, 15-21.	5.3	39
107	Life cycle cost analysis of a sustainable solar water distillation technique. Desalination and Water Treatment, 2013, 51, 7412-7419.	1.0	24
108	Reliability analysis of rainwater tanks: A comparison between South-East and Central Melbourne. Resources, Conservation and Recycling, 2012, 66, 1-7.	5.3	51

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109	Regional flood frequency analysis in arid regions: A case study for Australia. Journal of Hydrology, 2012, 475, 74-83.	2.3	85
110	Design, fabrication and performance analysis of an improved solar still. Desalination, 2012, 292, 105-112.	4.0	110
111	Rainwater harvesting in Greater Sydney: Water savings, reliability and economic benefits. Resources, Conservation and Recycling, 2012, 61, 16-21.	5.3	184
112	Regional flood frequency analysis in eastern Australia: Bayesian GLS regression-based methods within fixed region and ROI framework â€“ Quantile Regression vs. Parameter Regression Technique. Journal of Hydrology, 2012, 430-431, 142-161.	2.3	120
113	Regional flood frequency analysis using Bayesian generalized least squares: a comparison between quantile and parameter regression techniques. Hydrological Processes, 2012, 26, 1008-1021.	1.1	75
114	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.	1.6	31
115	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.	1.6	16
116	Reliability analysis of rainwater tanks in Melbourne using daily water balance model. Resources, Conservation and Recycling, 2011, 56, 80-86.	5.3	87
117	Scaling property of regional floods in New South Wales Australia. Natural Hazards, 2011, 58, 1155-1167.	1.6	33
118	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.	1.9	95
119	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.	1.9	45
120	Cushion pressure control system for an intelligent air-cushion track vehicle. Journal of Mechanical Science and Technology, 2011, 25, 1035-1041.	0.7	16
121	Optimisation of rainwater tank design from large roofs: A case study in Melbourne, Australia. Resources, Conservation and Recycling, 2011, 55, 1022-1029.	5.3	142
122	Study of fuzzy controller to control vertical position of an air-cushion tracked vehicle. , 2011, , .		0
123	Regional Flood Estimation in New South Wales Australia Using Generalized Least Squares Quantile Regression. Journal of Hydrologic Engineering - ASCE, 2011, 16, 920-925.	0.8	18
124	Streamflow data Preparation for Regional Flood Frequency Analysis: Lessons from Southeast Australia. Australian Journal of Water Resources, 2010, 14, 17-32.	1.6	46
125	Regional Flood Modelling: Use of Monte Carlo Cross-Validation for the Best Model Selection. , 2010, , .		2
126	Rainwater tanks in multi-unit buildings: A case study for three Australian cities. Resources, Conservation and Recycling, 2010, 54, 1449-1452.	5.3	127

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127	DISTANCE ASSOCIATED WITH MARRIAGE MIGRATION IN A NORTHERN AND A SOUTHERN REGION OF BANGLADESH: AN EMPIRICAL STUDY. Journal of Biosocial Science, 2010, 42, 577-586.	0.5	4
128	Application of the URBS-Monte Carlo Simulation Technique to Urban Catchments: A Case Study for the Coomera River Catchment in Gold Coast Australia. Water Practice and Technology, 2007, 2, .	1.0	2
129	Investigation of design rainfall temporal patterns in the Gold Coast region of Queensland. Australian Journal of Water Resources, 2006, 10, 49-61.	1.6	2
130	A quantile regression technique to estimate design floods for ungauged catchments in south-east Australia. Australian Journal of Water Resources, 2005, 9, 81-89.	1.6	28
131	The Use of Probability-Distributed Initial Losses in Design Flood Estimation. Australian Journal of Water Resources, 2002, 6, 17-29.	1.6	21
132	Monte Carlo simulation of flood frequency curves from rainfall. Journal of Hydrology, 2002, 256, 196-210.	2.3	136
133	Climatic and physical factors that influence the homogeneity of regional floods in southeastern Australia. Water Resources Research, 1998, 34, 3369-3381.	1.7	53
134	Teaching of Fluid Mechanics in Engineering Course. Advances in Higher Education and Professional Development Book Series, 0, , 12-20.	0.1	2
135	Teaching of Fluid Mechanics in Engineering Course. , 0, , 1093-1101.		1