

# Amimul Ahsan

## List of Publications by Year in descending order

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95  
papers

4,457  
citations

126907

33  
h-index

110387

64  
g-index

97  
all docs

97  
docs citations

97  
times ranked

3449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of slow release crystal fertilizer from wastewaters through struvite crystallization â€œ A review. Arabian Journal of Chemistry, 2014, 7, 139-155.	4.9	399
2	An experimental study on a hemispherical solar still. Desalination, 2012, 286, 342-348.	8.2	225
3	A study of abrasive water jet machining process on glass/epoxy composite laminate. Journal of Materials Processing Technology, 2009, 209, 6168-6173.	6.3	195
4	Environmental performance and energy recovery potential of five processes for municipal solid waste treatment. Journal of Cleaner Production, 2015, 105, 233-240.	9.3	186
5	The augmentation of distillate yield by using concentrator coupled solar still with phase change material. Desalination, 2013, 314, 189-192.	8.2	172
6	Investigation on glass/epoxy composite surfaces machined by abrasive water jet machining. Journal of Materials Processing Technology, 2008, 198, 122-128.	6.3	155
7	Parameters affecting the performance of a low cost solar still. Applied Energy, 2014, 114, 924-930.	10.1	151
8	Productivity enhancements of compound parabolic concentrator tubular solar stills. Renewable Energy, 2016, 88, 391-400.	8.9	150
9	Optimisation of rainwater tank design from large roofs: A case study in Melbourne, Australia. Resources, Conservation and Recycling, 2011, 55, 1022-1029.	10.8	142
10	Effect of water and air flow on concentric tubular solar water desalting system. Applied Energy, 2013, 103, 109-115.	10.1	140
11	Factors affecting the performance of triangular pyramid solar still. Desalination, 2014, 344, 383-390.	8.2	131
12	Biomass energy in Bangladesh: Current status and prospects. Renewable and Sustainable Energy Reviews, 2014, 30, 504-517.	16.4	111
13	Design, fabrication and performance analysis of an improved solar still. Desalination, 2012, 292, 105-112.	8.2	110
14	Mass and heat transfer model of Tubular Solar Still. Solar Energy, 2010, 84, 1147-1156.	6.1	107
15	A study on selection of probability distributions for at-site flood frequency analysis in Australia. Natural Hazards, 2013, 69, 1803-1813.	3.4	105
16	Experimental study on evaporation, condensation and production of a new Tubular Solar Still. Desalination, 2010, 260, 172-179.	8.2	98
17	Theoretical and experimental investigation on internal reflectors in a single-slope solar still. Applied Energy, 2016, 165, 537-547.	10.1	88
18	Reliability analysis of rainwater tanks in Melbourne using daily water balance model. Resources, Conservation and Recycling, 2011, 56, 80-86.	10.8	87

#	ARTICLE	IF	CITATIONS
19	Effect of heat removal on tubular solar desalting system. Desalination, 2016, 379, 24-33.	8.2	82
20	Integrated PV/T solar still- A mini-review. Desalination, 2018, 435, 259-267.	8.2	82
21	Sustainable waste management policy in Bangladesh for reduction of greenhouse gases. Sustainable Cities and Society, 2017, 33, 18-26.	10.4	75
22	Energy matrices, exergoeconomic and enviroeconomic analysis of modified multi-wick basin type double slope solar still. Desalination, 2018, 447, 55-73.	8.2	74
23	Effective composting of oil palm industrial waste by filamentous fungi: A review. Resources, Conservation and Recycling, 2012, 58, 69-78.	10.8	70
24	Effect of abrasive water jet machining parameters on aramid fibre reinforced plastics composite. International Journal of Material Forming, 2009, 2, 37-44.	2.0	69
25	Accomplishment and subjectivity of GIS-based DRASTIC groundwater vulnerability assessment method: a review. Environmental Earth Sciences, 2015, 73, 3063-3076.	2.7	66
26	Reliability analysis of rainwater tanks using daily water balance model: Variations within a large city. Resources, Conservation and Recycling, 2013, 77, 37-43.	10.8	64
27	Experimental Study on Various Solar Still Designs. , 2012, 2012, 1-10.		63
28	Double-diffusive natural convection in a triangular solar collector. International Communications in Heat and Mass Transfer, 2012, 39, 264-269.	5.6	58
29	Effects of water and basin depths in single basin solar stills: An experimental and theoretical study. Energy Conversion and Management, 2016, 122, 174-181.	9.2	52
30	Reliability analysis of rainwater tanks: A comparison between South-East and Central Melbourne. Resources, Conservation and Recycling, 2012, 66, 1-7.	10.8	51
31	MHD natural convection in an enclosure from two semi-circular heaters on the bottom wall. International Journal of Heat and Mass Transfer, 2012, 55, 1844-1854.	4.8	50
32	Review on pretreatment methods and ethanol production from cellulosic water hyacinth. BioResources, 2016, 12, 2108-2124.	1.0	40
33	Modelling stormwater treatment systems using MUSIC: Accuracy. Resources, Conservation and Recycling, 2013, 71, 15-21.	10.8	39
34	Pyrolysis and co-composting of municipal organic waste in Bangladesh: A quantitative estimate of recyclable nutrients, greenhouse gas emissions, and economic benefits. Waste Management, 2018, 75, 503-513.	7.4	39
35	Finite element simulation of mixed convection heat and mass transfer in a right triangular enclosure. International Communications in Heat and Mass Transfer, 2012, 39, 689-696.	5.6	35
36	Numerical investigation of heat transfer enhancement of nanofluids in an inclined lid-driven triangular enclosure. International Communications in Heat and Mass Transfer, 2011, 38, 1360-1367.	5.6	34

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37	Adsorptive Treatment of Landfill Leachate using Activated Carbon Modified with Three Different Methods. KSCE Journal of Civil Engineering, 2018, 22, 1083-1095.	1.9	34
38	Climatic and spatial variability of potential rainwater savings for a large coastal city. Resources, Conservation and Recycling, 2015, 105, 143-147.	10.8	33
39	Computational analysis of mixed convection in a channel with a cavity heated from different sides. International Communications in Heat and Mass Transfer, 2012, 39, 78-84.	5.6	31
40	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.	8.2	30
41	Natural convection effects on heat and mass transfer in a curvilinear triangular cavity. International Journal of Heat and Mass Transfer, 2012, 55, 6250-6259.	4.8	29
42	Double-diffusive buoyancy induced flow in a triangular cavity with corrugated bottom wall: Effects of geometrical parameters. International Communications in Heat and Mass Transfer, 2013, 45, 64-74.	5.6	29
43	ENHANCING THE HEAT TRANSFER OF TRIANGULAR PYRAMID SOLAR STILL USING PHASE CHANGE MATERIAL AS STORAGE MATERIAL. Frontiers in Heat and Mass Transfer, 0, 5, .	0.2	28
44	Laminar Mixed Convection in Inclined Triangular Enclosures Filled with Water Based Cu Nanofluid. Industrial & Engineering Chemistry Research, 2012, 51, 4090-4100.	3.7	27
45	Numerical models of solar distillation device: Present and previous. Desalination, 2013, 311, 173-181.	8.2	26
46	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.	10.1	26
47	Solar panels: Real efficiencies, potential productions and payback periods for major Australian cities. Sustainable Energy Technologies and Assessments, 2018, 25, 119-125.	2.7	25
48	Life cycle cost analysis of a sustainable solar water distillation technique. Desalination and Water Treatment, 2013, 51, 7412-7419.	1.0	24
49	Effect of parabolic solar energy collectors for water distillation. Desalination and Water Treatment, 2016, 57, 21234-21242.	1.0	24
50	Experimental Investigations on Conventional Solar Still with Sand Heat Energy Storage. International Journal of Heat and Technology, 2016, 34, 597-603.	0.6	21
51	An integrated technique using solar and evaporation ponds for effective brine disposal management. International Journal of Sustainable Energy, 2017, 36, 914-925.	2.4	19
52	A New Activated Carbon Prepared from Sago Palm Bark through Physiochemical Activated Process with Zinc Chloride. Engineering Journal, 2017, 21, 1-14.	1.0	17
53	Effect of air flow on tubular solar still efficiency. Iranian Journal of Environmental Health Science & Engineering, 2013, 10, 31.	1.8	16
54	Housing Problems for Middle and Low Income People in Bangladesh: Challenges of Dhaka Megacity. Environment and Urbanization ASIA, 2014, 5, 175-184.	1.8	16

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55	GIS-based FRASTIC model for pollution vulnerability assessment of fractured-rock aquifer systems. Environmental Earth Sciences, 2017, 76, 1.	2.7	15
56	The development and applications of solar pond: a review. Desalination and Water Treatment, 2015, 53, 2437-2449.	1.0	13
57	Treatment of Wastewater from a Food and Beverage Industry Using Conventional Wastewater Treatment Integrated with Membrane Bioreactor System: A Pilot-Scale Case Study. Membranes, 2021, 11, 456.	3.0	13
58	MHD Mixed Convection in a Channel with a Triangular Cavity. Numerical Heat Transfer; Part A: Applications, 2012, 61, 268-282.	2.1	12
59	Manufacture of Low-cost Activated Carbon Using Sago Palm Bark and Date Pits by Physiochemical Activation. BioResources, 2016, 12, .	1.0	12
60	Climatic and spatial variations of potential rainwater savings for Melbourne (Australia). International Journal of Hydrology Science and Technology, 2016, 6, 45.	0.3	12
61	Optimization of Mixed Convection in a Lid-Driven Enclosure with a Heat Generating Circular Body. Numerical Heat Transfer; Part A: Applications, 2011, 60, 629-650.	2.1	9
62	Potable water production using two solar stills having different cover materials and fabrication costs. Environmental Progress and Sustainable Energy, 2018, 37, 584-596.	2.3	9
63	Environmental Suitability and Carbon Footprint Savings of Recycled Tyre Crumbs for Road Applications. International Journal of Environmental Research, 2018, 12, 693-702.	2.3	9
64	Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach. , 0, 87, 1-13.		9
65	Generalised equations for rainwater tank outcomes under different climate conditions: a case study for Adelaide. International Journal of Water, 2016, 10, 301.	0.1	8
66	A simple clogging and backwashing efficiency model for filtration of arsenic-contaminated water. Desalination and Water Treatment, 2016, 57, 12237-12243.	1.0	7
67	A finite element analysis on combined convection and conduction in a channel with a thick walled cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2014, 24, 1888-1905.	2.8	5
68	MUSIC for cost optimisation of stormwater treatment systems. International Journal of Water, 2015, 9, 302.	0.1	5
69	Assessment of spatial relationship between groundwater pollution vulnerability and quality indices in Kano, Nigeria. Arabian Journal of Geosciences, 2017, 10, 1.	1.3	5
70	Evaporativity and Productivity of a New Tubular Solar Still. , 2009, , 333-338.		5
71	Performance of GACC and GACP to treat institutional wastewater: A sustainable technique. Membrane Water Treatment, 2015, 6, 339-349.	0.5	5
72	Cost and production performance of a Tubular Solar Still. , 2013, , .		4

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73	Effects of electric potential, NaCl, pH and distance between electrodes on efficiency of electrolysis in landfill leachate treatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 735-741.	1.7	4
74	Modifications of a simple clogging and back-washing efficiency model for arsenic filters. <i>Water Management</i> , 2019, 172, 284-290.	1.2	4
75	Mathematical Modelling for Predicting Pollutant Removal Efficiencies of an Electrolysis System. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	2.4	4
76	Optimizing the Performance of a Paper Mill Effluent Treatment. <i>Sains Malaysiana</i> , 2015, 44, 101-106.	0.5	4
77	Experimental Study on a Compound Parabolic Concentrator Tubular Solar Still Tied with Pyramid Solar Still. , 2012, , .		3
78	Performance of Steel Slag in Highway Surface Course. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2014, 71, .	0.4	3
79	Removal of Various Pollutants from Leachate Using a Low-Cost Technique: Integration of Electrolysis with Activated Carbon Contactor. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	3
80	Modeling of Unsteady Natural Convection for Double-Pipe in a Partially Cooled Enclosure. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 582-603.	2.1	3
81	Numerical model for the transport and degradation of pollutants through wetlands. <i>International Journal of Water</i> , 2016, 10, 1.	0.1	3
82	Radiation modelling and performance evaluations of fixed, single- and double-axis tracking surfaces: a case study for Dhahran city, Saudi Arabia. <i>International Journal of Sustainable Energy</i> , 2017, 36, 61-77.	2.4	3
83	Physical Risk Assessment for Urban Water Supply in a Developing Country: A Case of Mega City Dhaka. <i>Engineering Journal</i> , 2016, 20, 23-32.	1.0	3
84	Impacts of Climate Alteration on the Hydrology of the Yarra River Catchment, Australia Using GCMs and SWAT Model. <i>Water (Switzerland)</i> , 2022, 14, 445.	2.7	3
85	Geospatial water quality assessment system for the Sg. Buloh river basin in Malaysia. <i>International Journal of Water</i> , 2014, 8, 401.	0.1	2
86	Environmental benefits and recycling options for wood chips from furniture industries. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2017, 170, 85-91.	0.8	2
87	Data-driven modelling of bioethanol fuel production from rambutan fruit waste. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 0, , 1-21.	0.8	2
88	Evaporation Phenomenon Inside a Solar Still: From Water Surface to Humid Air. , 0, , .		1
89	Fractured rock aquifer delineation and assessment using spatial analysis in Kano, Nigeria. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	1
90	Improved clogging and backwashing model for filtration of arsenic-contaminated water. <i>Water Management</i> , 2020, 173, 265-270.	1.2	1

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91	Modelling Metribuzin Removal Efficiency Through Adsorption Using Activated Carbon of Olive-waste Cake. Water, Air, and Soil Pollution, 2022, 233, 1.	2.4	1
92	Assessment of Lake Sediments Properties and Contaminations Level. Advanced Materials Research, 2012, 610-613, 2100-2103.	0.3	0
93	A REVIEW OF THE CORROSION BEHAVIOR OF METALLIC HERITAGE STRUCTURES AND ARTIFACTS. Jurnal Teknologi (Sciences and Engineering), 2015, 77, .	0.4	0
94	Leachate Treatment Using Aged Refuse (AR) as a Biofilter Medium. Polish Journal of Environmental Studies, 0, 24, .	1.2	0
95	Chemical Characteristics of Native Soil in Shrimp Gher and Agricultural Land in Khulna, Bangladesh. Engineering Journal, 2016, 20, 1-15.	1.0	0