

# Aminuddin Ab Ghani

## List of Publications by Year in descending order

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118  
papers

2,604  
citations

185998

28  
h-index

223531

46  
g-index

123  
all docs

123  
docs citations

123  
times ranked

1702  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic Programming to Predict Bridge Pier Scour. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 165-169.	0.7	157
2	ANFIS-based approach for predicting sediment transport in clean sewer. <i>Applied Soft Computing Journal</i> , 2012, 12, 1227-1230.	4.1	133
3	Prediction of water quality index in constructed wetlands using support vector machine. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6208-6219.	2.7	121
4	Genetic Programming for Predicting Longitudinal Dispersion Coefficients in Streams. <i>Water Resources Management</i> , 2011, 25, 1537-1544.	1.9	103
5	Comparison between genetic algorithm and linear programming approach for real time operation. <i>Journal of Hydro-Environment Research</i> , 2008, 2, 172-181.	1.0	102
6	Gene-Expression Programming for the Development of a Stage-Discharge Curve of the Pahang River. <i>Water Resources Management</i> , 2011, 25, 2901-2916.	1.9	102
7	Gene-Expression Programming for Sediment Transport in Sewer Pipe Systems. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2011, 2, 102-106.	0.9	83
8	An ANFIS-based approach for predicting the bed load for moderately sized rivers. <i>Journal of Hydro-Environment Research</i> , 2009, 3, 35-44.	1.0	79
9	Machine Learning Approach to Predict Sediment Load – A Case Study. <i>Clean - Soil, Air, Water</i> , 2010, 38, 969-976.	0.7	62
10	A Review of Nitrogen Removal for Urban Stormwater Runoff in Bioretention System. <i>Sustainability</i> , 2019, 11, 5415.	1.6	62
11	ANFIS-Based Approach for Predicting the Scour Depth at Culvert Outlets. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2011, 2, 35-40.	0.9	60
12	Gene expression programming for total bed material load estimation – a case study. <i>Science of the Total Environment</i> , 2010, 408, 5078-5085.	3.9	59
13	Multiple Linear Regression Model for Total Bed Material Load Prediction. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 521-528.	0.7	58
14	Genetic Programming to Predict River Pipeline Scour. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2010, 1, 127-132.	0.9	57
15	3D simulation of flow around a single spur dike with free-surface flow. <i>International Journal of River Basin Management</i> , 2010, 8, 55-62.	1.5	57
16	Case Study: Flood Mitigation of the Muda River, Malaysia. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 251-261.	0.7	51
17	Flood risk mapping for Pari River incorporating sediment transport. <i>Environmental Modelling and Software</i> , 2003, 18, 119-130.	1.9	48
18	Bio-ecological drainage system (BIOECODS) for water quantity and quality control. <i>International Journal of River Basin Management</i> , 2003, 1, 237-251.	1.5	46

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19	Experimental Studies of Self-Cleansing Drainage System Design: A Review. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, .	0.9	43
20	Sediment Transport over Deposited Beds in Sewers. <i>Water Science and Technology</i> , 1994, 29, 125-133.	1.2	40
21	An expert system for predicting Manning's roughness coefficient in open channels by using gene expression programming. <i>Neural Computing and Applications</i> , 2013, 23, 1343-1349.	3.2	38
22	Development of GEP-based functional relationship for sediment transport in tropical rivers. <i>Neural Computing and Applications</i> , 2014, 24, 271-276.	3.2	38
23	Appraisal of soft computing techniques in prediction of total bed material load in tropical rivers. <i>Journal of Earth System Science</i> , 2012, 121, 125-133.	0.6	35
24	Estimation of dimension and time variation of local scour at short abutment. <i>International Journal of River Basin Management</i> , 2013, 11, 121-135.	1.5	35
25	Suspended sediment load prediction of river systems: GEP approach. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3469-3480.	0.6	35
26	Sungai Pahang digital flood mapping: 2007 flood. <i>International Journal of River Basin Management</i> , 2012, 10, 139-148.	1.5	32
27	Revised equations for Manning's coefficient for Sand-Bed Rivers. <i>International Journal of River Basin Management</i> , 2007, 5, 329-346.	1.5	31
28	Sediment transport modeling for Kulim River – A case study. <i>Journal of Hydro-Environment Research</i> , 2008, 2, 47-59.	1.0	31
29	Numerical modeling of 3-D flow on porous broad crested weirs. <i>Applied Mathematical Modelling</i> , 2013, 37, 9324-9337.	2.2	31
30	Prediction of water quality index in free surface constructed wetlands. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	29
31	Prediction of total bed material load for rivers in Malaysia: A case study of Langat, Muda and Kurau Rivers. <i>Environmental Fluid Mechanics</i> , 2011, 11, 307-318.	0.7	27
32	Influence of bed deposit in the prediction of incipient sediment motion in sewers using artificial neural networks. <i>Urban Water Journal</i> , 2018, 15, 296-302.	1.0	27
33	A temporal change study of the Muda River system over 22 years. <i>International Journal of River Basin Management</i> , 2010, 8, 25-37.	1.5	26
34	Verification of equations for incipient motion studies for a rigid rectangular channel. <i>Water Science and Technology</i> , 2013, 67, 395-403.	1.2	26
35	Design options for self-cleansing storm sewers. <i>Water Science and Technology</i> , 1996, 33, 215.	1.2	25
36	Sediment deposit thickness and its effect on critical velocity for incipient motion. <i>Water Science and Technology</i> , 2016, 74, 1876-1884.	1.2	25

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37	Storm water treatment using Bio-ecological Drainage System. <i>International Journal of River Basin Management</i> , 2005, 3, 215-221.	1.5	24
38	Design options for self-cleansing storm sewers. <i>Water Science and Technology</i> , 1996, 33, 215-220.	1.2	24
39	Discharge estimation for equatorial natural rivers with overbank flow. <i>International Journal of River Basin Management</i> , 2008, 6, 13-21.	1.5	20
40	Bridge pier scour prediction by gene expression programming. <i>Water Management</i> , 2012, 165, 481-493.	0.4	19
41	Sediment size characteristics of urban drains in Malaysian cities. <i>Urban Water</i> , 2000, 2, 335-341.	0.5	18
42	ANFIS-based approach to predicting scour location of spillway. <i>Water Management</i> , 2009, 162, 399-407.	0.4	18
43	Flow and sediment yield simulations for Bukit Merah Reservoir catchment, Malaysia: a case study. <i>Water Science and Technology</i> , 2012, 66, 2170-2176.	1.2	18
44	Prediction of temporal scour hazard at bridge abutment. <i>Natural Hazards</i> , 2016, 80, 1891-1911.	1.6	18
45	Sediment size and deposition characteristics in Malaysian urban concrete drains – a case study of Kuching City. <i>Urban Water Journal</i> , 2014, 11, 74-89.	1.0	17
46	Numerical modelling of flow characteristics over sharp crested triangular hump. <i>Results in Engineering</i> , 2019, 4, 100052.	2.2	17
47	Predicting scour at river bridge abutments over time. <i>Water Management</i> , 2017, 170, 15-30.	0.4	16
48	A study of hydraulic characteristics for flow in equatorial rivers. <i>International Journal of River Basin Management</i> , 2008, 6, 213-223.	1.5	15
49	Spatial pattern analysis for water quality in free-surface constructed wetland. <i>Water Science and Technology</i> , 2014, 70, 1161-1167.	1.2	15
50	Flow pattern and hydraulic performance of the REDAC Gross Pollutant Trap. <i>Flow Measurement and Instrumentation</i> , 2011, 22, 215-224.	1.0	13
51	Performance of a dry detention pond: case study of Kota Damansara, Selangor, Malaysia. <i>Urban Water Journal</i> , 2012, 9, 129-136.	1.0	13
52	Bedload transport of small rivers in Malaysia. <i>International Journal of Sediment Research</i> , 2014, 29, 481-490.	1.8	13
53	Potential of tipping flush gate for sedimentation management in open stormwater sewer. <i>Urban Water Journal</i> , 2016, 13, 486-498.	1.0	13
54	Design of a new hybrid artificial neural network method based on decision trees for calculating the Froude number in rigid rectangular channels. <i>Journal of Hydrology and Hydromechanics</i> , 2016, 64, 252-260.	0.7	12

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55	Temporal variation of clear-water scour at compound Abutments. Ain Shams Engineering Journal, 2016, 7, 1045-1052.	3.5	12
56	Regression models for sediment transport in tropical rivers. Environmental Science and Pollution Research, 2021, 28, 53097-53115.	2.7	12
57	Sustainable urban drainage as a viable measure of coping with heat and floods due to climate change. IOP Conference Series: Earth and Environmental Science, 2019, 257, 012013.	0.2	11
58	Development of group method of data handling based on genetic algorithm to predict incipient motion in rigid rectangular storm water channel. Scientia Iranica, 2017, 24, 1000-1009.	0.3	11
59	Sediment transport equation assessment for selected rivers in Malaysia. International Journal of River Basin Management, 2005, 3, 203-208.	1.5	10
60	COMPUTATION OF DISCHARGE THROUGH SIDE SLUICE GATE USING GENETIC EXPRESSION PROGRAMMING. Irrigation and Drainage, 2013, 62, 115-119.	0.8	10
61	Prediction of equilibrium scour time around long abutments. Water Management, 2013, 166, 394-401.	0.4	10
62	Stable channel analysis with sediment transport for rivers in Malaysia: A case study of the Muda, Kurau, and Langat rivers. International Journal of Sediment Research, 2020, 35, 455-466.	1.8	10
63	Evaluation of tree regression analysis for estimation of river basin discharge. Modeling Earth Systems and Environment, 2021, 7, 2531-2543.	1.9	10
64	Hydraulics of stepped spillways with different numbers of steps. Dams and Reservoirs, 2010, 20, 131-136.	0.1	9
65	Prediction of Scour below Flip Bucket using Soft Computing Techniques. , 2010, , .		9
66	Prediction models for flow resistance in flexible vegetated channels. International Journal of River Basin Management, 2018, 16, 427-437.	1.5	9
67	Modelling of Flow Parameters through Subsurface Drainage Modules for Application in BIOECODS. Water (Switzerland), 2019, 11, 1823.	1.2	8
68	PREDICTION OF SCOUR DEPTH IN DOWNSTREAM OF SKI-JUMP SPILLWAYS USING SOFT COMPUTING TECHNIQUES. International Journal of Computers and Applications, 2011, 33, .	0.8	7
69	Manning's roughness coefficient for ecological subsurface channel with modules. International Journal of River Basin Management, 2020, 18, 349-361.	1.5	7
70	Integrating Structural and Non-structural Flood Management Measures for Greater Effectiveness in Flood Loss Reduction in the Kelantan River Basin, Malaysia. Lecture Notes in Civil Engineering, 2020, , 1151-1162.	0.3	7
71	Determination of apparent and composite friction factors for flooded equatorial natural rivers. International Journal of River Basin Management, 2008, 6, 3-12.	1.5	6
72	Knowledge Extraction from Trained Neural Network Scour Models. Modern Applied Science, 2009, 2, .	0.4	6

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73	Editorial: River modelling and flood mitigation; Malaysian perspectives. <i>Water Management</i> , 2009, 162, 1-2.	0.4	6
74	Modelling urban river catchment: a case study in Malaysia. <i>Water Management</i> , 2009, 162, 25-34.	0.4	6
75	Hydraulics characteristics of tipping sediment flushing gate. <i>Water Science and Technology</i> , 2013, 68, 2397-2406.	1.2	6
76	Estimation of Tsunami Force for Onshore Buildings in the Northwest Coast of Peninsular Malaysia. <i>Applied Mechanics and Materials</i> , 2015, 802, 172-177.	0.2	6
77	Analysis of Manning's $n$ and Drag Coefficients for Flexible Submerged Vegetation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 216, 012046.	0.3	6
78	Sediment deposition in a rigid monsoon drain. <i>International Journal of River Basin Management</i> , 2008, 6, 23-30.	1.5	5
79	ANALYSIS OF TRENDS OF EXTREME RAINFALL EVENTS USING MANN KENDALL TEST: A CASE STUDY IN PAHANG AND KELANTAN RIVER BASINS. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.3	4
80	Local scour around complex abutments. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 165-173.	1.1	4
81	Sustainable solutions for global crisis of flooding, pollution and water scarcity. <i>International Journal of River Basin Management</i> , 2012, 10, 137-138.	1.5	3
82	Discussion: Bridge pier scour prediction by gene expression programming. <i>Water Management</i> , 2014, 167, 368-369.	0.4	3
83	Time Variations of Scour Below Submerged Skewed Pipelines. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 136, 012071.	0.3	3
84	Sediment Transport Dynamic in a Meandering Fluvial System: Case Study of Chini River. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 136, 012072.	0.3	3
85	FROUDE NUMBER VARIANCE WITH RESPECT TO THE HYDRODYNAMIC RESPONSE OF A NON-STATIC VEHICLE AT A LOW-LYING FLOODED ROADWAY. <i>IIUM Engineering Journal</i> , 2021, 22, 35-46.	0.5	3
86	Addressing Water Resources Shortfalls Due to Climate Change in Penang, Malaysia. <i>Springer Water</i> , 2021, , 239-249.	0.2	3
87	Constructed Wetlands as a Natural Resource for Water Quality Improvement in Malaysia. <i>Natural Resources</i> , 2014, 05, 292-298.	0.2	3
88	Velocity Distributions in Grassed Channel. , 2016, , .		3
89	Sediment Incipient Motion in Sewer with a Bed Deposit. <i>Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers</i> , 2022, 33, 11473-11486.	0.5	3
90	Assessment of imidacloprid removal from agricultural runoff by the bioretention treatment train system. <i>Environmental Advances</i> , 2022, 7, 100156.	2.2	3

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91	Inlet and Sewer Traps for Sediment Control in Stormwater Drainage - A Malaysian Case Study. , 2000, , 1.		2
92	FLOW SIMULATION FOR LAKE HARAPAN USING CCHE2D " A CASE STUDY. International Journal of Modelling and Simulation, 2011, 31, .	2.3	2
93	Erratum for "Genetic Programming to Predict Bridge Pier Scour" by H. Md. Azamathulla, Aminuddin Ab Ghani, Nor Azazi Zakaria, and Aytac Guven. Journal of Hydraulic Engineering, 2013, 139, 1020-1020.	0.7	2
94	Performance of <i>Elaeis Guineensis</i> Leaves Compost in Filter Media for Stormwater Treatment Through Column Study. IOP Conference Series: Materials Science and Engineering, 2016, 136, 012049.	0.3	2
95	Hydraulic Analysis of Biochannels for Sustainable Urban Drainage Systems. MATEC Web of Conferences, 2016, 68, 08002.	0.1	2
96	Advances and Challenging Issues in Subsurface Drainage Module Technology and BIOECODS: A Review. MATEC Web of Conferences, 2018, 203, 07005.	0.1	2
97	Distribution of rainfall events in northern region of Peninsular Malaysia. IOP Conference Series: Earth and Environmental Science, 2020, 476, 012116.	0.2	2
98	The use of treatment train for stormwater quality control in urban areas in Malaysia: A short review. IOP Conference Series: Earth and Environmental Science, 2020, 476, 012090.	0.2	2
99	The Effectiveness of Cascaded Bioretention System in Treating Urban Stormwater Runoff. Lecture Notes in Civil Engineering, 2021, , 39-46.	0.3	2
100	Community Involvement in Urban Water Management: The N Park Resort Condominium Rainfall Harvesting and Water Saving Project in Penang, Malaysia. Populasi, 2021, 29, 93.	0.2	2
101	GEP- and MLR-based equations for stable channel analysis. Journal of Hydroinformatics, 2021, 23, 1247-1270.	1.1	2
102	SUITABILITY OF BIOENGINEERING CHANNELS IN EROSION CONTROL: APPLICATION TO URBAN STORMWATER DRAINAGE SYSTEMS. Advances and Applications in Fluid Mechanics, 2016, 19, 765-785.	0.1	2
103	Flow Resistance in Ecological Subdrainage Channel. Lecture Notes in Civil Engineering, 2020, , 1117-1127.	0.3	2
104	MATHEMATICAL MODELLING OF FLOW AND SEDIMENT PATTERN AT IJOK INTAKE, IJOK RIVER, PERAK, MALAYSIA. International Journal of Modelling and Simulation, 2012, 32, .	2.3	1
105	The Impact of Stormwater Runoff on Nutrient Removal in Sand Columns. Applied Mechanics and Materials, 0, 567, 155-160.	0.2	1
106	Evaluation of Water Quality Index (WQI) Performance in Newly Constructed Free Water Surface (FWS) Constructed Wetland for Stormwater Treatment. Applied Mechanics and Materials, 2015, 802, 623-628.	0.2	1
107	Movable-Bed Experiments Using Spur Dike to Concentrate Flow in One Channel of Multithreaded Channel Model. Journal of Hydraulic Engineering, 2019, 145, 06019006.	0.7	1
108	Assessing phytoplankton distribution and water quality in constructed wetlands during dry and wet periods: A Case Study in USM Engineering Campus. IOP Conference Series: Earth and Environmental Science, 2019, 380, 012018.	0.2	1

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109	An integrated technique for assessing flow parameters through subsurface drainage module systems. IOP Conference Series: Earth and Environmental Science, 2020, 476, 012112.	0.2	1
110	Critical shear stress approach for self-cleansing design of a rectangular channel. International Journal of Sediment Research, 2021, 36, 678-685.	1.8	1
111	Trend of Total Phosphorus on Total Suspended Solid Reduction in Constructed Wetland Under Tropical Climate. , 2016, , 273-280.		1
112	ERROR INTRODUCED IN MEASUREMENTS OF BED LOAD TRANSPORT. , 2002, , .		1
113	Effects of DEMs from different sources in deriving stream networks threshold values. , 2016, , 361-364.		1
114	Urban Water Cycle Processes, Management, and Societal Interactions: Crossing from Crisis to Sustainability. , 2013, , .		0
115	DEPOSITION THICKNESS AND ITS EFFECT ON CRITICAL SHEAR STRESS FOR INCIPIENT MOTION OF SEDIMENTS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	0
116	SWMM Modelling of Automated Hydraulic Flushing Gate as a Flow Control Structure. Community, Environment and Disaster Risk Management, 2021, , 77-86.	0.1	0
117	INTEGRATED TRIANGULAR IRREGULAR NETWORK (ITIN) MODEL FOR FLOOD RISK ANALYSIS CASE STUDY: PARI RIVER, IPOH, MALAYSIA. , 2002, , .		0
118	Revised Equations of Total Bed Material Load for Rivers in Malaysia. Water Resources Development and Management, 2020, , 332-340.	0.3	0