

# Aminuddin Ab Ghani

## List of Publications by Citations

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112  
papers

1,939  
citations

25  
h-index

40  
g-index

121  
ext. papers

2,213  
ext. citations

1.8  
avg, IF

5.02  
L-index

#	Paper	IF	Citations
112	Genetic Programming to Predict Bridge Pier Scour. <i>Journal of Hydraulic Engineering</i> , <b>2010</b> , 136, 165-169	1.8	128
111	ANFIS-based approach for predicting sediment transport in clean sewer. <i>Applied Soft Computing Journal</i> , <b>2012</b> , 12, 1227-1230	7.5	110
110	Genetic Programming for Predicting Longitudinal Dispersion Coefficients in Streams. <i>Water Resources Management</i> , <b>2011</b> , 25, 1537-1544	3.7	86
109	Gene-Expression Programming for the Development of a Stage-Discharge Curve of the Pahang River. <i>Water Resources Management</i> , <b>2011</b> , 25, 2901-2916	3.7	82
108	Comparison between genetic algorithm and linear programming approach for real time operation. <i>Journal of Hydro-Environment Research</i> , <b>2008</b> , 2, 172-181	2.3	80
107	Prediction of water quality index in constructed wetlands using support vector machine. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 6208-19	5.1	77
106	Gene-Expression Programming for Sediment Transport in Sewer Pipe Systems. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2011</b> , 2, 102-106	1.5	70
105	An ANFIS-based approach for predicting the bed load for moderately sized rivers. <i>Journal of Hydro-Environment Research</i> , <b>2009</b> , 3, 35-44	2.3	64
104	Gene expression programming for total bed material load estimation--a case study. <i>Science of the Total Environment</i> , <b>2010</b> , 408, 5078-85	10.2	50
103	Multiple Linear Regression Model for Total Bed Material Load Prediction. <i>Journal of Hydraulic Engineering</i> , <b>2006</b> , 132, 521-528	1.8	50
102	ANFIS-Based Approach for Predicting the Scour Depth at Culvert Outlets. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2011</b> , 2, 35-40	1.5	49
101	Genetic Programming to Predict River Pipeline Scour. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2010</b> , 1, 127-132	1.5	47
100	Machine Learning Approach to Predict Sediment Load [A Case Study. <i>Clean - Soil, Air, Water</i> , <b>2010</b> , 38, 969-976	1.6	46
99	Case Study: Flood Mitigation of the Muda River, Malaysia. <i>Journal of Hydraulic Engineering</i> , <b>2010</b> , 136, 251-261	1.8	41
98	3D simulation of flow around a single spur dike with free-surface flow. <i>International Journal of River Basin Management</i> , <b>2010</b> , 8, 55-62	1.7	40
97	Flood risk mapping for Pari River incorporating sediment transport. <i>Environmental Modelling and Software</i> , <b>2003</b> , 18, 119-130	5.2	33
96	Development of GEP-based functional relationship for sediment transport in tropical rivers. <i>Neural Computing and Applications</i> , <b>2014</b> , 24, 271-276	4.8	32

95	Estimation of dimension and time variation of local scour at short abutment. <i>International Journal of River Basin Management</i> , <b>2013</b> , 11, 121-135	1.7	31
94	Bio-ecological drainage system (BIOECODS) for water quantity and quality control. <i>International Journal of River Basin Management</i> , <b>2003</b> , 1, 237-251	1.7	31
93	A Review of Nitrogen Removal for Urban Stormwater Runoff in Bioretention System. <i>Sustainability</i> , <b>2019</b> , 11, 5415	3.6	29
92	Experimental Studies of Self-Cleansing Drainage System Design: A Review. <i>Journal of Pipeline Systems Engineering and Practice</i> , <b>2018</b> , 9, 04018017	1.5	27
91	Sediment transport modeling for Kulim River [A case study]. <i>Journal of Hydro-Environment Research</i> , <b>2008</b> , 2, 47-59	2.3	27
90	Suspended sediment load prediction of river systems: GEP approach. <i>Arabian Journal of Geosciences</i> , <b>2013</b> , 6, 3469-3480	1.8	26
89	Sediment Transport over Deposited Beds in Sewers. <i>Water Science and Technology</i> , <b>1994</b> , 29, 125-133	2.2	26
88	Appraisal of soft computing techniques in prediction of total bed material load in tropical rivers. <i>Journal of Earth System Science</i> , <b>2012</b> , 121, 125-133	1.8	25
87	Revised equations for Manning's coefficient for Sand-Bed Rivers. <i>International Journal of River Basin Management</i> , <b>2007</b> , 5, 329-346	1.7	25
86	Prediction of water quality index in free surface constructed wetlands. <i>Environmental Earth Sciences</i> , <b>2016</b> , 75, 1	2.9	24
85	Influence of bed deposit in the prediction of incipient sediment motion in sewers using artificial neural networks. <i>Urban Water Journal</i> , <b>2018</b> , 15, 296-302	2.3	23
84	Numerical modeling of 3-D flow on porous broad crested weirs. <i>Applied Mathematical Modelling</i> , <b>2013</b> , 37, 9324-9337	4.5	22
83	Sungai Pahang digital flood mapping: 2007 flood. <i>International Journal of River Basin Management</i> , <b>2012</b> , 10, 139-148	1.7	22
82	Design options for self-cleansing storm sewers. <i>Water Science and Technology</i> , <b>1996</b> , 33, 215	2.2	21
81	Design options for self-cleansing storm sewers. <i>Water Science and Technology</i> , <b>1996</b> , 33, 215-220	2.2	21
80	An expert system for predicting Manning's roughness coefficient in open channels by using gene expression programming. <i>Neural Computing and Applications</i> , <b>2013</b> , 23, 1343-1349	4.8	20
79	Verification of equations for incipient motion studies for a rigid rectangular channel. <i>Water Science and Technology</i> , <b>2013</b> , 67, 395-403	2.2	20
78	Prediction of total bed material load for rivers in Malaysia: A case study of Langat, Muda and Kurau Rivers. <i>Environmental Fluid Mechanics</i> , <b>2011</b> , 11, 307-318	2.2	20

77	A temporal change study of the Muda River system over 22 years. <i>International Journal of River Basin Management</i> , <b>2010</b> , 8, 25-37	1.7	18
76	Storm water treatment using Bio-Ecological Drainage System. <i>International Journal of River Basin Management</i> , <b>2005</b> , 3, 215-221	1.7	18
75	Sediment deposit thickness and its effect on critical velocity for incipient motion. <i>Water Science and Technology</i> , <b>2016</b> , 74, 1876-1884	2.2	18
74	ANFIS-based approach to predicting scour location of spillway. <i>Water Management</i> , <b>2009</b> , 162, 399-407	1	15
73	Flow and sediment yield simulations for Bukit Merah Reservoir catchment, Malaysia: a case study. <i>Water Science and Technology</i> , <b>2012</b> , 66, 2170-6	2.2	15
72	Sediment size characteristics of urban drains in Malaysian cities. <i>Urban Water</i> , <b>2000</b> , 2, 335-341		15
71	A study of hydraulic characteristics for flow in equatorial rivers. <i>International Journal of River Basin Management</i> , <b>2008</b> , 6, 213-223	1.7	14
70	Prediction of temporal scour hazard at bridge abutment. <i>Natural Hazards</i> , <b>2016</b> , 80, 1891-1911	3	13
69	Spatial pattern analysis for water quality in free-surface constructed wetland. <i>Water Science and Technology</i> , <b>2014</b> , 70, 1161-7	2.2	13
68	Sediment size and deposition characteristics in Malaysian urban concrete drains – a case study of Kuching City. <i>Urban Water Journal</i> , <b>2014</b> , 11, 74-89	2.3	12
67	Bridge pier scour prediction by gene expression programming. <i>Water Management</i> , <b>2012</b> , 165, 481-493	1	12
66	Predicting scour at river bridge abutments over time. <i>Water Management</i> , <b>2017</b> , 170, 15-30	1	11
65	Performance of a dry detention pond: case study of Kota Damansara, Selangor, Malaysia. <i>Urban Water Journal</i> , <b>2012</b> , 9, 129-136	2.3	11
64	Discharge estimation for equatorial natural rivers with overbank flow. <i>International Journal of River Basin Management</i> , <b>2008</b> , 6, 13-21	1.7	11
63	Bedload transport of small rivers in Malaysia. <i>International Journal of Sediment Research</i> , <b>2014</b> , 29, 481-490	3	10
62	Flow pattern and hydraulic performance of the REDAC Gross Pollutant Trap. <i>Flow Measurement and Instrumentation</i> , <b>2011</b> , 22, 215-224	2.2	10
61	Development of group method of data handling based on genetic algorithm to predict incipient motion in rigid rectangular storm water channel. <i>Scientia Iranica</i> , <b>2017</b> , 24, 1000-1009	1.5	10
60	Sustainable urban drainage as a viable measure of coping with heat and floods due to climate change. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 257, 012013	0.3	9

59	Temporal variation of clear-water scour at compound Abutments. <i>Ain Shams Engineering Journal</i> , <b>2016</b> , 7, 1045-1052	4.4	9
58	Potential of tipping flush gate for sedimentation management in open stormwater sewer. <i>Urban Water Journal</i> , <b>2016</b> , 13, 486-498	2.3	9
57	COMPUTATION OF DISCHARGE THROUGH SIDE SLUICE GATE USING GENE-EXPRESSION PROGRAMMING. <i>Irrigation and Drainage</i> , <b>2013</b> , 62, 115-119	1.1	8
56	Prediction of Scour below Flip Bucket using Soft Computing Techniques <b>2010</b> ,		8
55	Sediment transport equation assessment for selected rivers in Malaysia. <i>International Journal of River Basin Management</i> , <b>2005</b> , 3, 203-208	1.7	8
54	Prediction models for flow resistance in flexible vegetated channels. <i>International Journal of River Basin Management</i> , <b>2018</b> , 16, 427-437	1.7	7
53	Prediction of equilibrium scour time around long abutments. <i>Water Management</i> , <b>2013</b> , 166, 394-401	1	7
52	HEC-RAS One-Dimensional Hydrodynamic Modelling for Recent Major Flood Events in Pahang River. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 1099-1115	0.3	7
51	Modelling urban river catchment: a case study in Malaysia. <i>Water Management</i> , <b>2009</b> , 162, 25-34	1	6
50	Hydraulics of stepped spillways with different numbers of steps. <i>Dams and Reservoirs</i> , <b>2010</b> , 20, 131-136	0.3	6
49	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> , <b>2016</b> , 64, 252-260	2.1	6
48	Stable channel analysis with sediment transport for rivers in Malaysia: A case study of the Muda, Kurau, and Langat rivers. <i>International Journal of Sediment Research</i> , <b>2020</b> , 35, 455-466	3	5
47	PREDICTION OF SCOUR DEPTH IN DOWNSTREAM OF SKI-JUMP SPILLWAYS USING SOFT COMPUTING TECHNIQUES. <i>International Journal of Computers and Applications</i> , <b>2011</b> , 33,	0.8	5
46	Numerical modelling of flow characteristics over sharp crested triangular hump. <i>Results in Engineering</i> , <b>2019</b> , 4, 100052	3.3	5
45	Manning's roughness coefficient for ecological subsurface channel with modules. <i>International Journal of River Basin Management</i> , <b>2020</b> , 18, 349-361	1.7	5
44	Local scour around complex abutments. <i>ISH Journal of Hydraulic Engineering</i> , <b>2019</b> , 1-9	1.5	4
43	Estimation of Tsunami Force for Onshore Buildings in the Northwest Coast of Peninsular Malaysia. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 802, 172-177	0.3	4
42	Hydraulics characteristics of tipping sediment flushing gate. <i>Water Science and Technology</i> , <b>2013</b> , 68, 2397-406	2.2	4

41	Knowledge Extraction from Trained Neural Network Scour Models. <i>Modern Applied Science</i> , <b>2009</b> , 2,	1.3	4
40	Sediment deposition in a rigid monsoon drain. <i>International Journal of River Basin Management</i> , <b>2008</b> , 6, 23-30	1.7	4
39	Determination of apparent and composite friction factors for flooded equatorial natural rivers. <i>International Journal of River Basin Management</i> , <b>2008</b> , 6, 3-12	1.7	4
38	Analysis of Manning's and Drag Coefficients for Flexible Submerged Vegetation. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 216, 012046	0.4	3
37	Integrating Structural and Non-structural Flood Management Measures for Greater Effectiveness in Flood Loss Reduction in the Kelantan River Basin, Malaysia. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 1151-1162	0.3	3
36	Regression models for sediment transport in tropical rivers. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 53097-53115	5.1	3
35	Time Variations of Scour Below Submerged Skewed Pipelines. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2016</b> , 136, 012071	0.4	3
34	Modelling of Flow Parameters through Subsurface Drainage Modules for Application in BIOECODS. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1823	3	2
33	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> , <b>2016</b> , 78,	1.2	2
32	The use of treatment train for stormwater quality control in urban areas in Malaysia: A short review. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 476, 012090	0.3	2
31	Erratum for Genetic Programming to Predict Bridge Pier Scour by H. Md. Azamathulla, Aminuddin Ab Ghani, Nor Azazi Zakaria, and Aytac Guven. <i>Journal of Hydraulic Engineering</i> , <b>2013</b> , 139, 1020-1020	1.8	2
30	FLOW SIMULATION FOR LAKE HARAPAN USING CCHE2D A CASE STUDY. <i>International Journal of Modelling and Simulation</i> , <b>2011</b> , 31,	1.5	2
29	SUITABILITY OF BIOENGINEERING CHANNELS IN EROSION CONTROL: APPLICATION TO URBAN STORMWATER DRAINAGE SYSTEMS. <i>Advances and Applications in Fluid Mechanics</i> , <b>2016</b> , 19, 765-785	0	2
28	Constructed Wetlands as a Natural Resource for Water Quality Improvement in Malaysia. <i>Natural Resources</i> , <b>2014</b> , 05, 292-298	0.2	2
27	Velocity Distributions in Grassed Channel <b>2016</b> ,		2
26	Performance of <i>Elaeis Guineensis</i> Leaves Compost in Filter Media for Stormwater Treatment Through Column Study. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2016</b> , 136, 012049	0.4	2
25	Evaluation of tree regression analysis for estimation of river basin discharge. <i>Modeling Earth Systems and Environment</i> , <b>2021</b> , 7, 2531	3.2	2
24	Distribution of rainfall events in northern region of Peninsular Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 476, 012116	0.3	1

23	Sediment Transport Dynamic in a Meandering Fluvial System: Case Study of Chini River. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2016</b> , 136, 012072	0.4	1
22	Hydraulic Analysis of Biochannels for Sustainable Urban Drainage Systems. <i>MATEC Web of Conferences</i> , <b>2016</b> , 68, 08002	0.3	1
21	Evaluation of Water Quality Index (WQI) Performance in Newly Constructed Free Water Surface (FWS) Constructed Wetland for Stormwater Treatment. <i>Applied Mechanics and Materials</i> , <b>2015</b> , 802, 623-628	0.3	1
20	Discussion: Bridge pier scour prediction by gene expression programming. <i>Water Management</i> , <b>2014</b> , 167, 368-369	1	1
19	The Impact of Stormwater Runoff on Nutrient Removal in Sand Columns. <i>Applied Mechanics and Materials</i> , <b>2014</b> , 567, 155-160	0.3	1
18	MATHEMATICAL MODELLING OF FLOW AND SEDIMENT PATTERN AT IJOK INTAKE, IJOK RIVER, PERAK, MALAYSIA. <i>International Journal of Modelling and Simulation</i> , <b>2012</b> , 32,	1.5	1
17	Inlet and Sewer Traps for Sediment Control in Stormwater Drainage - A Malaysian Case Study <b>2000</b> , 1		1
16	Flow Resistance in Ecological Subdrainage Channel. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 1117-1127	0.3	1
15	Trend of Total Phosphorus on Total Suspended Solid Reduction in Constructed Wetland Under Tropical Climate <b>2016</b> , 273-280		1
14	Effects of DEMs from different sources in deriving stream networks threshold values <b>2016</b> , 361-364		1
13	Assessing phytoplankton distribution and water quality in constructed wetlands during dry and wet periods: A Case Study in USM Engineering Campus. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 380, 012018	0.3	1
12	Advances and Challenging Issues in Subsurface Drainage Module Technology and BIOECODS: A Review. <i>MATEC Web of Conferences</i> , <b>2018</b> , 203, 07005	0.3	1
11	GEP- and MLR-based equations for stable channel analysis. <i>Journal of Hydroinformatics</i> ,	2.6	1
10	Movable-Bed Experiments Using Spur Dike to Concentrate Flow in One Channel of Multithreaded Channel Model. <i>Journal of Hydraulic Engineering</i> , <b>2019</b> , 145, 06019006	1.8	0
9	An integrated technique for assessing flow parameters through subsurface drainage module systems. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2020</b> , 476, 012112	0.3	0
8	Addressing Water Resources Shortfalls Due to Climate Change in Penang, Malaysia. <i>Springer Water</i> , <b>2021</b> , 239-249	0.3	0
7	The Effectiveness of Cascaded Bioretention System in Treating Urban Stormwater Runoff. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 39-46	0.3	0
6	Assessment of imidacloprid removal from agricultural runoff by the bioretention treatment train system. <i>Environmental Advances</i> , <b>2022</b> , 7, 100156	3.5	

- 5 Revised Equations of Total Bed Material Load for Rivers in Malaysia. *Water Resources Development and Management*, **2020**, 332-340 0.1
- 4 SWMM Modelling of Automated Hydraulic Flushing Gate as a Flow Control Structure. *Community, Environment and Disaster Risk Management*, **2021**, 77-86 0.2
- 3 Hydrodynamics of Flow over Axonopus Compressus (Cow Grass) as a Flexible Vegetation. *Lecture Notes in Civil Engineering*, **2021**, 103-110 0.3
- 2 Critical shear stress approach for self-cleansing design of a rectangular channel. *International Journal of Sediment Research*, **2021**, 36, 678-685 3
- 1 Bio-ecological Drainage System (BIOECODS): A Sustainable Green University Drainage System. *World Sustainability Series*, **2022**, 207-231 0.6