Amir F Etemad-Shahidi

List of Publications by Year
in descending order

106 papers	2,995 citations	147726 31 h-index	182361 51 g-index
106 all docs	106 docs citations	106 times ranked	2056 citing authors

#	Article	IF	Citations
1	Comparison between M5â€² model tree and neural networks for prediction of significant wave height in Lake Superior. Ocean Engineering, 2009, 36, 1175-1181.	1.9	165
2	Application of fuzzy inference system in the prediction of wave parameters. Ocean Engineering, 2005, 32, 1709-1725.	1.9	164
3	Hindcasting of wave parameters using different soft computing methods. Applied Ocean Research, 2008, 30, 28-36.	1.8	126
4	Scour prediction in long contractions using ANFIS and SVM. Ocean Engineering, 2016, 111, 128-135.	1.9	119
5	An alternative approach for the prediction of significant wave heights based on classification and regression trees. Applied Ocean Research, 2008, 30, 172-177.	1.8	112
6	Predicting Longitudinal Dispersion Coefficient in Natural Streams Using M5â€² Model Tree. Journal of Hydraulic Engineering, 2012, 138, 542-554.	0.7	87
7	Wave modeling and extreme value analysis off the northern coast of the Persian Gulf. Applied Ocean Research, 2010, 32, 209-218.	1.8	86
8	Wave energy potential along the northern coasts of the Gulf of Oman, Iran. Renewable Energy, 2012, 40, 90-97.	4.3	82
9	Assessment of wave energy variation in the Persian Gulf. Ocean Engineering, 2013, 70, 72-80.	1.9	80
10	Wave height forecasting in Dayyer, the Persian Gulf. Ocean Engineering, 2011, 38, 248-255.	1.9	78
11	Wave energy resource assessment along the Southeast coast of Australia on the basis of a 31-year hindcast. Applied Energy, 2016, 184, 276-297.	5.1	78
12	A hybrid genetic algorithmâ€"adaptive network-based fuzzy inference system in prediction of wave parameters. Engineering Applications of Artificial Intelligence, 2009, 22, 1194-1202.	4.3	75
13	Application of two numerical models for wave hindcasting in Lake Erie. Applied Ocean Research, 2007, 29, 137-145.	1.8	71
14	Model tree approach for prediction of pile groups scour due to waves. Ocean Engineering, 2011, 38, 1522-1527.	1.9	68
15	Wave load formulae for prediction of wave-induced forces on a slender pile within pile groups. Coastal Engineering, 2015, 102, 49-68.	1.7	57
16	Design of rubble-mound breakwaters using M5 â€² machine learning method. Applied Ocean Research, 2009, 31, 197-201.	1.8	55
17	Prediction of wave-induced scour depth under submarine pipelines using machine learning approach. Applied Ocean Research, 2011, 33, 54-59.	1.8	54
18	Anatomy of turbulence in thermally stratified lakes. Limnology and Oceanography, 2001, 46, 1158-1170.	1.6	49

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19	Developing an optimum hotspot identifier for wave energy extracting in the northern Persian Gulf. Renewable Energy, 2017, 114, 59-71.	4.3	49
20	Predicting wave run-up on rubble-mound structures using M5 model tree. Ocean Engineering, 2011, 38, 111-118.	1.9	48
21	Sustainability of wave energy resources in southern Caspian Sea. Energy, 2016, 97, 549-559.	4.5	48
22	A review of wave energy estimates for nearshore shelf waters off Australia. International Journal of Marine Energy, 2014, 7, 57-70.	1.8	40
23	Climate change impact on wave energy in the Persian Gulf. Ocean Dynamics, 2015, 65, 777-794.	0.9	40
24	Temporal-spatial variation of wave energy and nearshore hotspots in the Gulf of Oman based on locally generated wind waves. Renewable Energy, 2016, 94, 341-352.	4.3	40
25	Eulerâ€"Euler two-phase flow simulation of tunnel erosion beneath marine pipelines. Applied Ocean Research, 2011, 33, 137-146.	1.8	39
26	Wave data assimilation using a hybrid approach in the Persian Gulf. Ocean Dynamics, 2012, 62, 785-797.	0.9	38
27	Stability of rubble-mound breakwater using H50 wave height parameter. Coastal Engineering, 2012, 59, 38-45.	1.7	35
28	Inter- and intra-annual variability of potential power production from wave energy converters. Energy, 2019, 169, 1224-1241.	4.5	35
29	Prediction of pile group scour in waves using support vector machines and ANN. Journal of Hydroinformatics, 2011, 13, 609-620.	1.1	33
30	A new method for the prediction of wave runup on vertical piles. Coastal Engineering, 2015, 98, 55-64.	1.7	33
31	An alternative approach for investigation of the wave-induced scour around pipelines. Journal of Hydroinformatics, 2010, 12, 51-65.	1.1	31
32	Wave energy and hot spots in Anzali port. Energy, 2014, 74, 529-536.	4.5	31
33	Evaluation of regular wave scour around a circular pile using data mining approaches. Applied Ocean Research, 2010, 32, 34-39.	1.8	30
34	A decision-making process for wave energy converter and location pairing. Renewable and Sustainable Energy Reviews, 2021, 147, 111225.	8.2	29
35	How Does the Driverâ€™s Perception Reaction Time Affect the Performances of Crash Surrogate Measures?. PLoS ONE, 2015, 10, e0138617.	1.1	29
36	Prediction of wave overtopping at vertical structures. Coastal Engineering, 2016, 109, 42-52.	1.7	28

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37	Modeling of salinity intrusion under different hydrological conditions in the Arvand River Estuary. Canadian Journal of Civil Engineering, 2008, 35, 1476-1480.	0.7	27
38	Derivation of a New Model for Prediction of Wave Overtopping at Rubble Mound Structures. Journal of Waterway, Port, Coastal and Ocean Engineering, 2012, 138, 42-52.	0.5	27
39	Estimation of current-induced pile groups scour using a rule-based method. Journal of Hydroinformatics, 2013, 15, 516-528.	1.1	26
40	Individual-based modelling of cyanobacteria blooms: Physical and physiological processes. Science of the Total Environment, 2021, 792, 148418.	3.9	25
41	Anatomy of turbulence in a narrow and strongly stratified estuary. Journal of Geophysical Research, 2002, 107, 7-1.	3.3	23
42	Two-Phase Simulation of Wave-Induced Tunnel Scour beneath Marine Pipelines. Journal of Hydraulic Engineering, 2012, 138, 517-529.	0.7	23
43	New formulae for prediction of wave overtopping at inclined structures with smooth impermeable surface. Ocean Engineering, 2014, 84, 124-132.	1.9	23
44	Run-up on vertical piles due to regular waves: Small-scale model tests and prediction formulae. Coastal Engineering, 2016, 118, 1-11.	1.7	23
45	Individual wave overtopping at coastal structures: A critical review and the existing challenges. Applied Ocean Research, 2021, 106, 102476.	1.8	22
46	Wave overtopping at berm breakwaters: Experimental study and development of prediction formula. Coastal Engineering, 2017, 130, 85-102.	1.7	20
47	Classification and Regression Trees Approach for Predicting Current-Induced Scour Depth Under Pipelines. Journal of Offshore Mechanics and Arctic Engineering, 2014, 136, .	0.6	19
48	Numerical modelling of the Gold Coast Seaway area hydrodynamics and littoral drift. Ocean Engineering, 2016, 121, 47-61.	1.9	19
49	Estimation of Transverse Mixing Coefficient in Straight and Meandering Streams. Water Resources Management, 2017, 31, 3809-3827.	1.9	17
50	Modeling of Hydrodynamics and Cohesive Sediment Processes in an Estuarine System: Study Case in Danshui River. Environmental Modeling and Assessment, 2010, 15, 261-271.	1.2	16
51	An empirical model for salinity intrusion in alluvial estuaries. Ocean Dynamics, 2011, 61, 1619-1628.	0.9	16
52	Estimation of scour depth around circular piers: applications of model tree. Journal of Hydroinformatics, 2015, 17, 226-238.	1.1	16
53	Effects of sea level rise on the salinity of Bahmanshir estuary. International Journal of Environmental Science and Technology, 2015, 12, 3329-3340.	1.8	16
54	On the stability of rock armored rubble mound structures. Coastal Engineering, 2020, 158, 103655.	1.7	16

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55	Numerical modelling to assess maintenance strategy management options for a small tidal inlet. Estuarine, Coastal and Shelf Science, 2017, 187, 273-292.	0.9	15
56	Numerical investigation of boundary layer effects on vortex shedding frequency and forces acting upon marine pipeline. Applied Ocean Research, 2010, 32, 460-470.	1.8	14
57	Classification of the Caspian Sea coastal waters based on trophic index and numerical analysis. Environmental Monitoring and Assessment, 2010, 164, 349-356.	1.3	14
58	Evaluation of ECMWF wind data for wave hindcast in Chabahar zone. Journal of Coastal Research, 2013, 65, 380-385.	0.1	14
59	Error distribution and correction of the predicted wave characteristics over the Persian Gulf. Ocean Engineering, 2014, 75, 81-89.	1.9	14
60	Revisiting Longshore Sediment Transport Formulas. Journal of Waterway, Port, Coastal and Ocean Engineering, 2020, 146, .	0.5	14
61	Impacts of atmospheric stilling and climate warming on cyanobacterial blooms: An individual-based modelling approach. Water Research, 2022, 221, 118814.	5.3	13
62	Diapycnal Mixing in the Thermocline of Lakes: Estimations by Different Methods. Environmental Fluid Mechanics, 2006, 6, 227-240.	0.7	12
63	A distributed wind downscaling technique for wave climate modeling under future scenarios. Ocean Modelling, 2020, 145, 101513.	1.0	12
64	Wave energy forecasting using artificial neural networks in the Caspian Sea. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2014, 167, 42-52.	1.4	11
65	Wave overtopping at berm breakwaters: Review and sensitivity analysis of prediction models. Coastal Engineering, 2017, 120, 1-21.	1.7	11
66	A Weibull Distribution Based Technique for Downscaling of Climatic Wind Field. Asia-Pacific Journal of Atmospheric Sciences, 2019, 55, 685-700.	1.3	11
67	Modeling the combined impact of climate change and sea-level rise on general circulation and residence time in a semi-enclosed sea. Science of the Total Environment, 2020, 740, 140073.	3.9	11
68	Prediction of mean wave overtopping at simple sloped breakwaters using kernel-based methods. Journal of Hydroinformatics, 2021, 23, 1030-1049.	1.1	11
69	Modelling of bubble plume destratification using DYRESM. Journal of Water Supply: Research and Technology - AQUA, 2005, 54, 37-46.	0.6	11
70	Prediction of salinity intrusion in Danshuei estuarine system. Hydrology Research, 2008, 39, 497-505.	1.1	10
71	Salinity intrusion length: comparison of different approaches. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2011, 164, 33-42.	1.4	10
72	Applying Monte Carlo and classification tree sensitivity analysis to the Zayandehrood River. Journal of Hydroinformatics, 2012, 14, 236-250.	1.1	10

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73	Effects of climate change on the thermal regime of a reservoir. Water Management, 2014, 167, 601-611.	0.4	10
74	Breaking-Down and Parameterising Wave Energy Converter Costs Using the CapEx and Similitude Methods. Energies, 2021, 14, 902.	1.6	9
75	Experimental study of wave overtopping at rubble mound seawalls. Coastal Engineering, 2022, 172, 104062.	1.7	9
76	Vertical eddy diffusivity estimations in Swan river estuary. Dynamics of Atmospheres and Oceans, 2005, 39, 175-187.	0.7	8
77	Evaluation of Different Wind Fields for Storm Surge Modeling in the Persian Gulf. Journal of Coastal Research, 2016, 33, 596.	0.1	7
78	Wave run-up on bermed coastal structures. Applied Ocean Research, 2019, 86, 188-194.	1.8	7
79	A Genetic Algorithm-Based Fuzzy Inference System in Prediction of Wave Parameters. , 2006, , 741-750.		7
80	A multi-model ensemble to investigate uncertainty in the estimation of wave-driven longshore sediment transport patterns along a non-straight coastline. Coastal Engineering, 2022, 173, 104080.	1.7	7
81	Field Measurement for Investigating the Dynamics of Currumbin Creek Tidal Inlet Entrance. Journal of Coastal Research, 2013, 165, 1212-1217.	0.1	6
82	Anatomy of turbulence in a narrow and weakly stratified estuary. Marine and Freshwater Research, 2002, 53, 757.	0.7	5
83	Strategic Evaluation Tool for Surface Water Quality Management Remedies in Drinking Water Catchments. Water (Switzerland), 2017, 9, 738.	1.2	5
84	Hydrosedimentological Modelling of a Small, Trained Tidal Inlet System, Currumbin Creek, Southeast Queensland, Australia. Journal of Coastal Research, 2018, 342, 341-359.	0.1	5
85	Modelling of flow around hexagonal and textured cylinders. Proceedings of the Institution of Civil Engineers: Engineering and Computational Mechanics, 2018, 171, 99-114.	0.4	5
86	On the toe stability of rubble mound structures. Coastal Engineering, 2021, 164, 103835.	1.7	5
87	Wave overtopping at vertical and battered smooth impermeable structures. Coastal Engineering, 2021, 166, 103889.	1.7	5
88	Assessment of CGCM 3.1 wind field in the Persian Gulf. Journal of Coastal Research, 2013, 65, 249-253.	0.1	4
89	Prediction of scour at abutments using piecewise regression. Water Management, 2014, 167, 79-87.	0.4	4
90	Investigation of hydraulics transport time scales within the Arvand River estuary, Iran. Hydrological Processes, 2014, 28, 6006-6015.	1.1	4

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91	Morphological evolution of the Nerang River Entrance ebb-tidal delta. Journal of Coastal Research, 2016, 75, 238-242.	0.1	4
92	Effect of Sea Level Rise on the Wave Overtopping Rate at Berm Breakwater. Journal of Waterway, Port, Coastal and Ocean Engineering, 2019, 145, 04019019.	0.5	4
93	An alternative data driven approach for prediction of thermal discharge initial dilution using tee diffusers. International Journal of Environmental Science and Technology, 2010, 7, 29-36.	1.8	3
94	Inclusion of additional energy dissipation due to plunging breakers in parametric type wave models. Coastal Engineering, 2013, 82, 1-8.	1.7	3
95	THE COMPARISON OF EMPIRICAL FORMULAE FOR THE PREDICTION OF MEAN WAVE OVERTOPPING RATE AT ARMORED SLOPED STRUCTURES. Coastal Engineering Proceedings, 2020, , 22.	0.1	3
96	On the mean overtopping rate of rubble mound structures. Coastal Engineering, 2022, 177, 104150.	1.7	3
97	Distribution of individual wave overtopping volumes at rubble mound seawalls. Coastal Engineering, 2022, 177, 104173.	1.7	3
98	Accelerated numerical simulation to investigate morphology changes around small tidal inlets. Coastal Engineering Journal, 2019, 61, 535-558.	0.7	2
99	Numerical Investigation of Gap to Diameter Ratio Effects on Flow Pattern and Drag Force Around Offshore Pipeline. , 2008, , .		1
100	On the estimation of transport timescales â€" case study: the Dez reservoir. Journal of Hydroinformatics, 2011, 13, 217-228.	1.1	1
101	The stability of berm breakwaters, state of art and sensitivity analysis. Coastal Engineering, 2022, 172, 104059.	1.7	1
102	Uncertainties in the Projected Patterns of Wave-Driven Longshore Sediment Transport Along a Non-straight Coastline. Frontiers in Marine Science, 2022, 9, .	1.2	1
103	Reply to: A Discussion on â€œHindcasting of wave parameters using different soft computing methodsâ€• [Appl. Ocean Res. (2008), doi:10.1016/j.apor.2008.03.002]. Applied Ocean Research, 2008, 30, 154-155.	1.8	0
104	Dynamics of lock-release crystalline gravity currents. , 2017, 1, 213-218.		0
105	Experimental study of the mean wave overtopping rate of berm breakwaters at different wave steepness conditions. , 2018, , .		0
106	Closure to â€œRevisiting Longshore Sediment Transport Formulasâ€•by Saeed Shaeri, Amir Etemad-Shahidi, and Rodger Tomlinson. Journal of Waterway, Port, Coastal and Ocean Engineering, 2021, 147, .	0.5	0