

# Yakun Guo

## List of Publications by Year in descending order

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98  
papers

1,789  
citations

279798

23  
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99  
all docs

99  
docs citations

99  
times ranked

1084  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of nonlinear wave-induced seabed response around mono-pile foundation. Coastal Engineering, 2017, 121, 197-211.	4.0	94
2	An integrated numerical model for wave-soil-pipeline interactions. Coastal Engineering, 2016, 108, 25-35.	4.0	82
3	Three-dimensional numerical model for wave-induced seabed response around mono-pile. Ships and Offshore Structures, 2016, 11, 667-678.	1.9	77
4	On the breaking of internal solitary waves at a ridge. Journal of Fluid Mechanics, 2002, 469, 161-188.	3.4	74
5	Computational investigation of typhoon-induced storm surge in Hangzhou Bay, China. Estuarine, Coastal and Shelf Science, 2009, 85, 530-536.	2.1	65
6	The generalized Hamiltonian model for the shafting transient analysis of the hydro turbine generating sets. Nonlinear Dynamics, 2014, 76, 1921-1933.	5.2	64
7	Consolidation of unsaturated seabed around an inserted pile foundation and its effects on the wave-induced momentary liquefaction. Ocean Engineering, 2017, 131, 308-321.	4.3	64
8	Correlation between flood frequency and geomorphologic complexity of rivers network - A case study of Hangzhou China. Journal of Hydrology, 2015, 527, 113-118.	5.4	50
9	Predicting the vertical low suspended sediment concentration in vegetated flow using a random displacement model. Journal of Hydrology, 2019, 578, 124101.	5.4	48
10	Seasonal circulation and influence factors of the Bohai Sea: a numerical study based on Lagrangian particle tracking method. Ocean Dynamics, 2010, 60, 1581-1596.	2.2	46
11	Calculation and experiment on scour depth for submarine pipeline with a spoiler. Ocean Engineering, 2012, 55, 191-198.	4.3	43
12	Nonlinear hydro turbine model having a surge tank. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 12-28.	2.2	42
13	Laboratory experimental study of ocean waves propagating over a partially buried pipeline in a trench layer. Ocean Engineering, 2019, 173, 617-627.	4.3	42
14	Numerical prediction of medium-term tidal flat evolution in the Yangtze Estuary: Impacts of the Three Gorges project. Continental Shelf Research, 2013, 52, 12-26.	1.8	41
15	Wave-induced seabed residual response and liquefaction around a mono-pile foundation with various embedded depth. Ocean Engineering, 2019, 173, 157-173.	4.3	41
16	Large eddy simulation of turbulent flow in a true 3D Francis hydro turbine passage with dynamical fluid-structure interaction. International Journal for Numerical Methods in Fluids, 2007, 54, 517-541.	1.6	33
17	Study of Scour around Submarine Pipeline with a Rubber Plate or Rigid Spoiler in Wave Conditions. Journal of Waterway, Port, Coastal and Ocean Engineering, 2012, 138, 484-490.	1.2	33
18	Scour protection of submarine pipelines using rubber plates underneath the pipes. Ocean Engineering, 2014, 84, 176-182.	4.3	30

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19	Numerical Simulation of Solitary-Wave Propagation over a Steady Current. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2015, 141, .	1.2	30
20	Development and Application of a Eutrophication Water Quality Model for River Networks. <i>Journal of Hydrodynamics</i> , 2008, 20, 719-726.	3.2	28
21	Dominant features in three-dimensional turbulence structure: comparison of non-uniform accelerating and decelerating flows. <i>Environmental Fluid Mechanics</i> , 2018, 18, 395-416.	1.6	28
22	Modeling Study of Free Overfall in a Rectangular Channel with Strip Roughness. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 664-667.	1.5	25
23	Numerical Simulation of Gravity Current Descending a Slope into a Linearly Stratified Environment. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	1.5	24
24	Analytical Solution of Suspended Sediment Concentration Profile: Relevance of Dispersive Flow Term in Vegetated Channels. <i>Water Resources Research</i> , 2020, 56, e2019WR027012.	4.2	24
25	Numerical Simulation of the Tidal Flow and Suspended Sediment Transport in the Qiantang Estuary. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2012, 138, 192-202.	1.2	23
26	Reconstruction of the complete characteristics of the hydro turbine based on inner energy loss. <i>Nonlinear Dynamics</i> , 2016, 86, 963-974.	5.2	22
27	Experimental study on soil response and wave attenuation in a silt bed. <i>Ocean Engineering</i> , 2018, 160, 105-118.	4.3	22
28	Numerical simulation of turbulent flows in trapezoidal meandering compound open channels. <i>International Journal for Numerical Methods in Fluids</i> , 2011, 65, 1071-1083.	1.6	21
29	Numerical Modeling of Free Overfall. <i>Journal of Hydraulic Engineering</i> , 2005, 131, 134-138.	1.5	20
30	Estimation of flow direction in meandering compound channels. <i>Journal of Hydrology</i> , 2018, 556, 143-153.	5.4	19
31	FEM simulation of turbulent flow in a turbine blade passage with dynamical fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 1299-1330.	1.6	18
32	Modelling the motion of an internal solitary wave over a bottom ridge in a stratified fluid. <i>Environmental Fluid Mechanics</i> , 2005, 4, 415-441.	1.6	17
33	Prediction of the depth-averaged two-dimensional flow direction along a meander in compound channels. <i>Journal of Hydrology</i> , 2018, 565, 318-330.	5.4	17
34	Flow structures in wake of a pile-supported horizontal axis tidal stream turbine. <i>Renewable Energy</i> , 2020, 147, 2321-2334.	8.9	17
35	Investigation of array layout of tidal stream turbines on energy extraction efficiency. <i>Ocean Engineering</i> , 2020, 196, 106775.	4.3	16
36	Large-Eddy Simulation of Turbulent Flow Considering Inflow Wakes in a Francis Turbine Blade Passage. <i>Journal of Hydrodynamics</i> , 2007, 19, 201-209.	3.2	15

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37	Differential equation model of single penstock multi-machine system with hydraulic coupling. IET Renewable Power Generation, 2019, 13, 1153-1159.	3.1	15
38	Laboratory model studies of flushing of trapped salt water from a blocked tidal estuary. Journal of Hydraulic Research/De Recherches Hydrauliques, 2001, 39, 601-609.	1.7	14
39	Numerical Simulation of the Spreading of Aerated and Nonaerated Turbulent Water Jet in a Tank with Finite Water Depth. Journal of Hydraulic Engineering, 2014, 140, .	1.5	14
40	Experimental investigation on the effects of bed slope and tailwater on dam-break flows. Journal of Hydrology, 2020, 590, 125256.	5.4	14
41	A Modelling Study of Transient, Buoyancy-Driven Exchange Flow over a Descending Barrier. Environmental Fluid Mechanics, 2004, 4, 127-155.	1.6	13
42	Torque model of hydro turbine with inner energy loss characteristics. Science China Technological Sciences, 2010, 53, 2826-2832.	4.0	13
43	Analytical and Experimental Investigations of Dam-Break Flows in Triangular Channels with Wet-Bed Conditions. Journal of Hydraulic Engineering, 2020, 146, .	1.5	13
44	Turbulence Structure and Momentum Exchange in Compound Channel Flows With Shore Ice Covered on the Floodplains. Water Resources Research, 2021, 57, e2020WR028621.	4.2	13
45	Laboratory model studies of Mediterranean outflow adjustment in the Gulf of Cadiz. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4207-4223.	1.4	12
46	Intrinsic Features of Turbulent Flow in Strongly 3-D Skew Blade Passage of a Francis Turbine. Journal of Hydrodynamics, 2007, 19, 92-99.	3.2	12
47	The flow generated by the rotation of a horizontal disk in a stratified fluid. Fluid Dynamics Research, 1995, 17, 27-47.	1.3	11
48	Saltwater-freshwater mixing fluctuation in shallow beach aquifers. Estuarine, Coastal and Shelf Science, 2018, 207, 93-103.	2.1	10
49	Experimental investigation on wake and thrust characteristics of a twin-rotor horizontal axis tidal stream turbine. Renewable Energy, 2022, 195, 701-715.	8.9	10
50	Boundary currents over shelf and slope topography. Journal of Marine Systems, 1999, 19, 137-158.	2.1	9
51	Topographic and stratification effects on shelf edge flows. Dynamics of Atmospheres and Oceans, 2000, 31, 73-116.	1.8	9
52	Model Study of the Influence of Submerged Tidal Barriers on Estuarine Mixing and Exchange Processes. Journal of Hydraulic Engineering, 2006, 132, 1033-1043.	1.5	9
53	Modelling of sediment transport and bed deformation in rivers with continuous bends. Journal of Hydrology, 2013, 499, 224-235.	5.4	9
54	Numerical study on the interaction between waves and twin pipelines in sandy seabed. Journal of Coastal Research, 2013, 65, 428-433.	0.3	9

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55	Modelling study of wave damping over a sandy and a silty bed. Coastal Engineering, 2020, 161, 103756.	4.0	9
56	Investigation of the sediment transport capacity in vegetated open channel flow. Journal of Hydrodynamics, 2021, 33, 386-389.	3.2	9
57	Study of wave-induced seabed response around twin pipelines in sandy seabed through laboratory experiments and numerical simulations. Ocean Engineering, 2022, 244, 110344.	4.3	9
58	Flow characteristics in partially vegetated channel with homogeneous and heterogeneous layouts. Environmental Science and Pollution Research, 2022, 29, 38186-38197.	5.3	9
59	Numerical investigation on critical length of impermeable plate below underwater pipeline under steady current. Science China Technological Sciences, 2013, 56, 1232-1240.	4.0	8
60	Numerical Simulation of Vertical Buoyant Wall Jet Discharged into a Linearly Stratified Environment. Journal of Hydraulic Engineering, 2018, 144, .	1.5	8
61	Effects of Soil-Resistance Damping on Wave-Induced Pore Pressure Accumulation around a Composite Breakwater. Journal of Coastal Research, 2018, 34, 573.	0.3	8
62	Investigation on scour protection of submarine piggyback pipeline. Ocean Engineering, 2019, 182, 442-450.	4.3	8
63	Analytical Solution of Shallow Water Equations for Ideal Dam-Break Flood along a Wet-Bed Slope. Journal of Hydraulic Engineering, 2020, 146, .	1.5	8
64	Stochastic Simulation of the Suspended Sediment Deposition in the Channel With Vegetation and Its Relevance to Turbulent Kinetic Energy. Water Resources Research, 2021, 57, e2021WR030380.	4.2	8
65	The salt wedge position in a bar-blocked estuary subject to pulsed inflows. Estuarine, Coastal and Shelf Science, 2003, 58, 187-196.	2.1	7
66	Modeling Study of the Flow past Irregularities in a Pressure Conduit. Journal of Hydraulic Engineering, 2007, 133, 698-702.	1.5	7
67	Study on dynamic angle of repose for submarine pipeline with spoiler on sandy seabed. Journal of Petroleum Exploration and Production, 2012, 2, 229-236.	2.4	7
68	Wave (Current)-Induced Pore Pressure in Offshore Deposits: A Coupled Finite Element Model. Journal of Marine Science and Engineering, 2018, 6, 83.	2.6	7
69	Numerical study of the dam-break waves and Favre waves down sloped wet rigid-bed at laboratory scale. Journal of Hydrology, 2021, 602, 126752.	5.4	7
70	Mixing of a two-layer stratified fluid by a rotating disk. Fluid Dynamics Research, 1997, 21, 381-401.	1.3	6
71	Improving the prediction of scour around submarine pipelines. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2016, 169, 163-173.	0.2	6
72	Upper-Bound Analysis for Stone Retaining Wall Slope Based on Mixed Numerical Discretization. International Journal of Geomechanics, 2018, 18, 04018122.	2.7	6

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73	Near-trapping effect of wave-cylinders interaction on pore water pressure and liquefaction around a cylinder array. <i>Ocean Engineering</i> , 2020, 218, 108047.	4.3	6
74	Gate-Opening Criterion for Generating Dam-Break Flow in Non-Rectangular Wet Bed Channels. <i>Energies</i> , 2020, 13, 6280.	3.1	6
75	Wave induced silty seabed response around a trenched pipeline. <i>Ocean Engineering</i> , 2022, 245, 110527.	4.3	6
76	Self-aeration development and fully cross-sectional air diffusion in high-speed open channel flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2022, 60, 445-459.	1.7	6
77	NUMERICAL SIMULATION OF FLOW FEATURES AND ENERGY EXCHANGE PHYSICS IN NEAR-WALL REGION WITH FLUID-STRUCTURE INTERACTION. <i>International Journal of Modern Physics B</i> , 2008, 22, 651-669.	2.0	5
78	Investigation on scour scale of piggyback pipeline under wave conditions. <i>Ocean Engineering</i> , 2019, 182, 196-202.	4.3	5
79	Free Surface Air Entrainment and Single-Bubble Movement in Supercritical Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	5
80	Numerical investigation of the influence of the small pipeline on local scour morphology around the piggyback pipeline. <i>Ocean Engineering</i> , 2021, 240, 109973.	4.3	5
81	Scale Model Experiment on Local Scour around Submarine Pipelines under Bidirectional Tidal Currents. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1421.	2.6	5
82	Laboratory modelling experiments on the flow generated by the tidal motion of a stratified ocean over a continental shelf. <i>Continental Shelf Research</i> , 2003, 23, 193-212.	1.8	4
83	Scour development around submarine pipelines due to current based on the maximum entropy theory. <i>Journal of Ocean University of China</i> , 2016, 15, 841-846.	1.2	4
84	Approximate Analytical Solution and Laboratory Experiments for Dam-Break Wave Tip Region in Triangular Channels. <i>Journal of Hydraulic Engineering</i> , 2021, 147, 06021015.	1.5	4
85	Numerical Simulation of Flushing of Trapped Salt Water from a Bar-Blocked Estuary. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1671-1676.	1.5	3
86	Numerical Study of Standing Wave-Induced Seabed Residual Response with the Non-homogeneous Soil Property. <i>Journal of Coastal Research</i> , 2018, 85, 921-925.	0.3	3
87	Hydrodynamics in Estuaries and Coast: Analysis and Modeling. <i>Water (Switzerland)</i> , 2022, 14, 1478.	2.7	3
88	Experimental study of the dam-break waves in triangular channels with a sloped wet bed. <i>Ocean Engineering</i> , 2022, 255, 111399.	4.3	3
89	Turbulent flow simulation using LES with dynamical mixed one-equation subgrid models in complex geometries. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 600-621.	1.6	2
90	Flow in Open Channel with Complex Solid Boundary. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	2

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91	Modelling study of hydrodynamics in a macro tidal estuary. Proceedings of the Institution of Civil Engineers: Maritime Engineering, 2019, 172, 34-44.	0.2	2
92	Hamiltonian Modeling and Structure Modified Control of Diesel Engine. Energies, 2021, 14, 2011.	3.1	2
93	The Flow Generated in a Stratified Fluid by the Motion of a Flat Horizontal Disk. Fluid Mechanics and Its Applications, 1996, , 331-341.	0.2	2
94	Performance of a bidirectional horizontal-axis tidal turbine with passive flow control devices. Renewable Energy, 2022, , .	8.9	2
95	Some New Data and Formulas for Resistance Flow in Fluvial Open Channels. Journal of Hydrodynamics, 2011, 23, 527-534.	3.2	1
96	Pollutant advective spreading in beach sand exposed to high-energy tides. Estuarine, Coastal and Shelf Science, 2016, 181, 70-82.	2.1	1
97	Numerical Simulation of the Hydraulic Performances and Flow Pattern of Swallow-Tailed Flip Bucket. Mathematical Problems in Engineering, 2020, 2020, 1-14.	1.1	1
98	Combined multi-predict-correct iterative method for interaction between pulsatile flow and large deformation structure. Coupled Systems Mechanics, 2012, 1, 361-379.	0.4	0