

Yakun Guo

List of Publications by Year in descending order

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98
papers

1,789
citations

279798

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1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of wave-induced seabed response around twin pipelines in sandy seabed through laboratory experiments and numerical simulations. <i>Ocean Engineering</i> , 2022, 244, 110344.	4.3	9
2	Wave induced silty seabed response around a trenched pipeline. <i>Ocean Engineering</i> , 2022, 245, 110527.	4.3	6
3	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
4	Flow characteristics in partially vegetated channel with homogeneous and heterogeneous layouts. <i>Environmental Science and Pollution Research</i> , 2022, 29, 38186-38197.	5.3	9
5	Hydrodynamics in Estuaries and Coast: Analysis and Modeling. <i>Water (Switzerland)</i> , 2022, 14, 1478.	2.7	3
6	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
7	Performance of a bidirectional horizontal-axis tidal turbine with passive flow control devices. <i>Renewable Energy</i> , 2022, , .	8.9	2
8	Experimental investigation on wake and thrust characteristics of a twin-rotor horizontal axis tidal stream turbine. <i>Renewable Energy</i> , 2022, 195, 701-715.	8.9	10
9	Investigation of the sediment transport capacity in vegetated open channel flow. <i>Journal of Hydrodynamics</i> , 2021, 33, 386-389.	3.2	9
10	Turbulence Structure and Momentum Exchange in Compound Channel Flows With Shore Ice Covered on the Floodplains. <i>Water Resources Research</i> , 2021, 57, e2020WR028621.	4.2	13
11	Hamiltonian Modeling and Structure Modified Control of Diesel Engine. <i>Energies</i> , 2021, 14, 2011.	3.1	2
12	Stochastic Simulation of the Suspended Sediment Deposition in the Channel With Vegetation and Its Relevance to Turbulent Kinetic Energy. <i>Water Resources Research</i> , 2021, 57, e2021WR030380.	4.2	8
13	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
14	Numerical study of the dam-break waves and Favre waves down sloped wet rigid-bed at laboratory scale. <i>Journal of Hydrology</i> , 2021, 602, 126752.	5.4	7
15	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
16	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
17	Flow structures in wake of a pile-supported horizontal axis tidal stream turbine. <i>Renewable Energy</i> , 2020, 147, 2321-2334.	8.9	17
18	Analytical Solution of Shallow Water Equations for Ideal Dam-Break Flood along a Wet-Bed Slope. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	8

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19	Investigation of array layout of tidal stream turbines on energy extraction efficiency. <i>Ocean Engineering</i> , 2020, 196, 106775.	4.3	16
20	Analytical and Experimental Investigations of Dam-Break Flows in Triangular Channels with Wet-Bed Conditions. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	13
21	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
22	Modelling study of wave damping over a sandy and a silty bed. <i>Coastal Engineering</i> , 2020, 161, 103756.	4.0	9
23	Gate-Opening Criterion for Generating Dam-Break Flow in Non-Rectangular Wet Bed Channels. <i>Energies</i> , 2020, 13, 6280.	3.1	6
24	Free Surface Air Entrainment and Single-Bubble Movement in Supercritical Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	5
25	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
26	Numerical Simulation of the Hydraulic Performances and Flow Pattern of Swallow-Tailed Flip Bucket. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-14.	1.1	1
27	Experimental investigation on the effects of bed slope and tailwater on dam-break flows. <i>Journal of Hydrology</i> , 2020, 590, 125256.	5.4	14
28	Modelling study of hydrodynamics in a macro tidal estuary. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2019, 172, 34-44.	0.2	2
29	Predicting the vertical low suspended sediment concentration in vegetated flow using a random displacement model. <i>Journal of Hydrology</i> , 2019, 578, 124101.	5.4	48
30	Differential equation model of single penstock multi-machine system with hydraulic coupling. <i>IET Renewable Power Generation</i> , 2019, 13, 1153-1159.	3.1	15
31	Laboratory experimental study of ocean waves propagating over a partially buried pipeline in a trench layer. <i>Ocean Engineering</i> , 2019, 173, 617-627.	4.3	42
32	Investigation on scour scale of piggyback pipeline under wave conditions. <i>Ocean Engineering</i> , 2019, 182, 196-202.	4.3	5
33	Investigation on scour protection of submarine piggyback pipeline. <i>Ocean Engineering</i> , 2019, 182, 442-450.	4.3	8
34	Wave-induced seabed residual response and liquefaction around a mono-pile foundation with various embedded depth. <i>Ocean Engineering</i> , 2019, 173, 157-173.	4.3	41
35	Saltwater-freshwater mixing fluctuation in shallow beach aquifers. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 207, 93-103.	2.1	10
36	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

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37	Numerical Simulation of Vertical Buoyant Wall Jet Discharged into a Linearly Stratified Environment. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	8
38	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
39	Wave (Current)-Induced Pore Pressure in Offshore Deposits: A Coupled Finite Element Model. <i>Journal of Marine Science and Engineering</i> , 2018, 6, 83.	2.6	7
40	Effects of Soil-Resistance Damping on Wave-Induced Pore Pressure Accumulation around a Composite Breakwater. <i>Journal of Coastal Research</i> , 2018, 34, 573.	0.3	8
41	Experimental study on soil response and wave attenuation in a silt bed. <i>Ocean Engineering</i> , 2018, 160, 105-118.	4.3	22
42	Estimation of flow direction in meandering compound channels. <i>Journal of Hydrology</i> , 2018, 556, 143-153.	5.4	19
43	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
44	Upper-Bound Analysis for Stone Retaining Wall Slope Based on Mixed Numerical Discretization. <i>International Journal of Geomechanics</i> , 2018, 18, 04018122.	2.7	6
45	Investigation of nonlinear wave-induced seabed response around mono-pile foundation. <i>Coastal Engineering</i> , 2017, 121, 197-211.	4.0	94
46	Consolidation of unsaturated seabed around an inserted pile foundation and its effects on the wave-induced momentary liquefaction. <i>Ocean Engineering</i> , 2017, 131, 308-321.	4.3	64
47	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
48	Improving the prediction of scour around submarine pipelines. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2016, 169, 163-173.	0.2	6
49	Pollutant advective spreading in beach sand exposed to high-energy tides. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 181, 70-82.	2.1	1
50	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
51	An integrated numerical model for wave-soil-pipeline interactions. <i>Coastal Engineering</i> , 2016, 108, 25-35.	4.0	82
52	Flow in Open Channel with Complex Solid Boundary. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	2
53	Three-dimensional numerical model for wave-induced seabed response around mono-pile. <i>Ships and Offshore Structures</i> , 2016, 11, 667-678.	1.9	77
54	Correlation between flood frequency and geomorphologic complexity of rivers network – A case study of Hangzhou China. <i>Journal of Hydrology</i> , 2015, 527, 113-118.	5.4	50

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55	Numerical Simulation of Solitary-Wave Propagation over a Steady Current. Journal of Waterway, Port, Coastal and Ocean Engineering, 2015, 141, .	1.2	30
56	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
57	Scour protection of submarine pipelines using rubber plates underneath the pipes. Ocean Engineering, 2014, 84, 176-182.	4.3	30
58	The generalized Hamiltonian model for the shafting transient analysis of the hydro turbine generating sets. Nonlinear Dynamics, 2014, 76, 1921-1933.	5.2	64
59	Numerical Simulation of Gravity Current Descending a Slope into a Linearly Stratified Environment. Journal of Hydraulic Engineering, 2014, 140, .	1.5	24
60	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
61	Modelling of sediment transport and bed deformation in rivers with continuous bends. Journal of Hydrology, 2013, 499, 224-235.	5.4	9
62	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
63	Nonlinear hydro turbine model having a surge tank. Mathematical and Computer Modelling of Dynamical Systems, 2013, 19, 12-28.	2.2	42
64	Numerical study on the interaction between waves and twin pipelines in sandy seabed. Journal of Coastal Research, 2013, 65, 428-433.	0.3	9
65	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
66	Numerical Simulation of the Tidal Flow and Suspended Sediment Transport in the Qiantang Estuary. Journal of Waterway, Port, Coastal and Ocean Engineering, 2012, 138, 192-202.	1.2	23
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	Calculation and experiment on scour depth for submarine pipeline with a spoiler. Ocean Engineering, 2012, 55, 191-198.	4.3	43
69	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
70	Some New Data and Formulas for Resistance Flow in Fluvial Open Channels. Journal of Hydrodynamics, 2011, 23, 527-534.	3.2	1
71	Numerical simulation of turbulent flows in trapezoidal meandering compound open channels. International Journal for Numerical Methods in Fluids, 2011, 65, 1071-1083.	1.6	21
72	Turbulent flow simulation using LES with dynamical mixed one-equation subgrid models in complex geometries. International Journal for Numerical Methods in Fluids, 2010, 63, 600-621.	1.6	2

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73	Seasonal circulation and influence factors of the Bohai Sea: a numerical study based on Lagrangian particle tracking method. <i>Ocean Dynamics</i> , 2010, 60, 1581-1596.	2.2	46
74	Torque model of hydro turbine with inner energy loss characteristics. <i>Science China Technological Sciences</i> , 2010, 53, 2826-2832.	4.0	13
75	Computational investigation of typhoon-induced storm surge in Hangzhou Bay, China. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 85, 530-536.	2.1	65
76	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
77	Development and Application of a Eutrophication Water Quality Model for River Networks. <i>Journal of Hydrodynamics</i> , 2008, 20, 719-726.	3.2	28
78	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
79	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
80	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
81	Modeling Study of the Flow past Irregularities in a Pressure Conduit. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 698-702.	1.5	7
82	Large eddy simulation of turbulent flow in a true 3D Francis hydro turbine passage with dynamical fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 54, 517-541.	1.6	33
83	Intrinsic Features of Turbulent Flow in Strongly 3-D Skew Blade Passage of a Francis Turbine. <i>Journal of Hydrodynamics</i> , 2007, 19, 92-99.	3.2	12
84	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
85	Model Study of the Influence of Submerged Tidal Barriers on Estuarine Mixing and Exchange Processes. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 1033-1043.	1.5	9
86	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
87	Numerical Modeling of Free Overfall. <i>Journal of Hydraulic Engineering</i> , 2005, 131, 134-138.	1.5	20
88	A Modelling Study of Transient, Buoyancy-Driven Exchange Flow over a Descending Barrier. <i>Environmental Fluid Mechanics</i> , 2004, 4, 127-155.	1.6	13
89	The salt wedge position in a bar-blocked estuary subject to pulsed inflows. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 58, 187-196.	2.1	7
90	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

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91	On the breaking of internal solitary waves at a ridge. <i>Journal of Fluid Mechanics</i> , 2002, 469, 161-188.	3.4	74
92	Laboratory model studies of Mediterranean outflow adjustment in the Gulf of Cadiz. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2002, 49, 4207-4223.	1.4	12
93	Laboratory model studies of flushing of trapped salt water from a blocked tidal estuary. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2001, 39, 601-609.	1.7	14
94	Topographic and stratification effects on shelf edge flows. <i>Dynamics of Atmospheres and Oceans</i> , 2000, 31, 73-116.	1.8	9
95	Boundary currents over shelf and slope topography. <i>Journal of Marine Systems</i> , 1999, 19, 137-158.	2.1	9
96	Mixing of a two-layer stratified fluid by a rotating disk. <i>Fluid Dynamics Research</i> , 1997, 21, 381-401.	1.3	6
97	The Flow Generated in a Stratified Fluid by the Motion of a Flat Horizontal Disk. <i>Fluid Mechanics and Its Applications</i> , 1996, , 331-341.	0.2	2
98	The flow generated by the rotation of a horizontal disk in a stratified fluid. <i>Fluid Dynamics Research</i> , 1995, 17, 27-47.	1.3	11