

# Wenyong Tang

## List of Publications by Year in descending order

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56  
papers

663  
citations

471509

17  
h-index

642732

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g-index

56  
all docs

56  
docs citations

56  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical analysis of laterally impacted stiffened plates considering the effect of strain rate. <i>Ocean Engineering</i> , 2015, 99, 44-54.	4.3	46
2	Numerical analysis of Vortex-Induced Vibration for flexible risers under steady and oscillatory flows. <i>Ocean Engineering</i> , 2018, 148, 548-562.	4.3	34
3	A numerical investigation of Vortex-Induced Vibration response characteristics for long flexible cylinders with time-varying axial tension. <i>Journal of Fluids and Structures</i> , 2018, 77, 36-57.	3.4	32
4	A combined wave-dam-breaking model for rogue wave overtopping. <i>Ocean Engineering</i> , 2015, 104, 77-88.	4.3	29
5	Numerical study of Rogue waves as nonlinear Schrödinger breather solutions under finite water depth. <i>Wave Motion</i> , 2015, 52, 81-90.	2.0	28
6	Comparison of laminar model, RANS, LES and VLES for simulation of liquid sloshing. <i>Applied Ocean Research</i> , 2016, 59, 638-649.	4.1	27
7	Fatigue analysis of steel catenary riser at the touch-down point based on linear hysteretic riser-soil interaction model. <i>Ocean Engineering</i> , 2013, 68, 102-111.	4.3	25
8	A probability-based superposition model of freak wave simulation. <i>Applied Ocean Research</i> , 2014, 47, 284-290.	4.1	24
9	Numerical study of nonlinear freak wave impact underneath a fixed horizontal deck in 2-D space. <i>Applied Ocean Research</i> , 2017, 64, 155-168.	4.1	23
10	Frequency domain approach for the coupled analysis of floating wind turbine system. <i>Ships and Offshore Structures</i> , 2017, 12, 767-774.	1.9	23
11	Numerical simulations using conserved wave absorption applied to Navier-Stokes equation model. <i>Coastal Engineering</i> , 2015, 99, 15-25.	4.0	22
12	A SIMPLE-based monolithic implicit method for strong-coupled fluid-structure interaction problems with free surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 299, 90-115.	6.6	22
13	Structural response of deck structures on the green water event caused by freak waves. <i>Journal of Fluids and Structures</i> , 2017, 68, 322-338.	3.4	22
14	Numerical study of the interaction between peregrine breather based freak waves and twin-plate breakwater. <i>Journal of Fluids and Structures</i> , 2019, 87, 206-227.	3.4	20
15	Numerical study on structural response of anti-sloshing baffles of different configurations in a sloshing tank considering hydroelasticity. <i>Ocean Engineering</i> , 2019, 188, 106290.	4.3	19
16	Time domain approach for coupled cross-flow and in-line VIV induced fatigue damage of steel catenary riser at touchdown zone. <i>Marine Structures</i> , 2015, 41, 267-287.	3.8	18
17	Numerical study of wave impact on the deck-house caused by freak waves. <i>Ocean Engineering</i> , 2017, 133, 151-169.	4.3	18
18	An improved time domain coupled model of Cross-Flow and In-Line Vortex-Induced Vibration for flexible risers. <i>Ocean Engineering</i> , 2017, 136, 117-128.	4.3	17

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19	Time domain prediction approach for cross-flow VIV induced fatigue damage of steel catenary riser near touchdown point. <i>Applied Ocean Research</i> , 2013, 43, 166-174.	4.1	15
20	A thermodynamic model for predicting transient pressure evolution in response to venting and vaporization of liquefied gas under sudden release. <i>Journal of Hazardous Materials</i> , 2020, 395, 122460.	12.4	14
21	Numerical study of rogue wave overtopping with a fully-coupled fluid-structure interaction model. <i>Ocean Engineering</i> , 2017, 137, 48-58.	4.3	13
22	A numerical investigation on quasi-static configuration and nonlinear dynamic response characteristics of marine towing cable. <i>Ocean Engineering</i> , 2021, 240, 110007.	4.3	10
23	Dynamic behavior of scaled tubular K-joints subjected to impact loads. <i>Marine Structures</i> , 2020, 69, 102685.	3.8	9
24	A moving-boundary based dynamic model for predicting the transient free convection and thermal stratification in liquefied gas storage tank. <i>International Journal of Thermal Sciences</i> , 2021, 160, 106690.	4.9	9
25	Statistical analysis of ice loads on ship hull measured during Arctic navigations. <i>Ocean Engineering</i> , 2021, 223, 108642.	4.3	9
26	The three-dimensional green-water event study on a fixed simplified wall-sided ship under freak waves. <i>Ocean Engineering</i> , 2022, 251, 111096.	4.3	9
27	Dynamic response of a horizontal plate dropping onto nonlinear freak waves using a fluid-structure interaction method. <i>Journal of Fluids and Structures</i> , 2017, 74, 291-305.	3.4	8
28	Nonlinear riser-seabed interaction response among touchdown zone of a steel catenary riser in consideration of vortex-induced vibration. <i>Ocean Engineering</i> , 2021, 227, 108891.	4.3	8
29	Modelling of ductile fracture in ship structures subjected to quasi-static impact loads. <i>International Journal of Impact Engineering</i> , 2021, 156, 103941.	5.0	8
30	Hybrid RANS/LES simulation of sloshing flow in a rectangular tank with and without baffles. <i>Ships and Offshore Structures</i> , 2017, 12, 1005-1015.	1.9	7
31	Numerical study of section geometry of flexible bag of air cushion vehicle subjected to slamming loads. <i>Ocean Engineering</i> , 2021, 227, 108894.	4.3	7
32	Blast wave propagation characteristics in FPSO: Effect of cubical obstacles. <i>Ocean Engineering</i> , 2022, 250, 111022.	4.3	7
33	Analysis of shafting alignment for container vessels based on improved transition matrix method. <i>Procedia Engineering</i> , 2011, 15, 5373-5377.	1.2	6
34	The effects of stochastic characteristics of materials on the reliability of a composite ship hull. <i>Journal of Marine Science and Application</i> , 2011, 10, 1-6.	1.7	6
35	Numerical study of nonlinear Peregrine breather under finite water depth. <i>Ocean Engineering</i> , 2015, 108, 70-80.	4.3	6
36	Characteristic Analysis of VIV-Induced Fatigue Damage of Top Tensioned Risers Based on Simplified Model. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2011, 133, .	1.2	5

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37	VIV-induced fatigue damage study of helical wires in catenary unbonded flexible riser in time domain. Journal of Marine Engineering and Technology, 2018, 17, 1-11.	4.1	5
38	Numerical analysis on three-dimensional green water events induced by freak waves. Ships and Offshore Structures, 2021, 16, 33-43.	1.9	5
39	Fatigue analysis of a steel catenary riser at touchdown zone with seabed resistance and hydrodynamic forces. Ocean Engineering, 2022, 244, 110446.	4.3	5
40	Fatigue sensitivity analysis of steel catenary riser near touchdown point. Journal of Shanghai Jiaotong University (Science), 2017, 22, 570-576.	0.9	4
41	Internal laminar flow effect on the nonlinear dynamic response of marine risers under uniform ocean current. Ships and Offshore Structures, 2022, 17, 1382-1391.	1.9	4
42	Hybrid analytic-FEM approach for dynamic response analysis of air-cushion vehicle skirts. Marine Structures, 2021, 79, 103062.	3.8	4
43	Numerical investigation on pressure responsiveness properties of the skirt-cushion system of an air cushion vehicle. International Journal of Naval Architecture and Ocean Engineering, 2020, 12, 928-942.	2.3	4
44	A practical optimisation method of submarine base considering vibration reduction, light-weight and shock resistance. Ships and Offshore Structures, 0, , 1-12.	1.9	4
45	Numerical analysis of the water entry of flexible bags of air cushion vehicles considering a diaphragm. Ocean Engineering, 2022, 246, 110662.	4.3	4
46	Development of ductile fracture modelling approach in ship impact simulations. Ocean Engineering, 2022, 252, 111173.	4.3	4
47	Optimal design for a VLCC propulsion system based on torsional vibration analysis. Procedia Engineering, 2011, 15, 5378-5383.	1.2	3
48	Fatigue Damage Study of Helical Wires in Catenary Unbonded Flexible Riser Near Touchdown Point. Journal of Offshore Mechanics and Arctic Engineering, 2017, 139, .	1.2	3
49	Response of Beams Under the Impact of Freak Waves. , 2014, , .		3
50	Numerical investigation on water entry of a three-dimensional flexible bag of an air cushion vehicle. Ocean Engineering, 2022, 247, 110653.	4.3	3
51	Nonlinear FEM Simulation of Air Cushion Vehicle (ACV) Skirt Joint Under Tension Loading. Naval Engineers Journal, 2009, 121, 91-97.	0.1	2
52	Research on the transverse stability of an air cushion vehicle hovering over the rigid ground. Ships and Offshore Structures, 2022, 17, 2300-2316.	1.9	1
53	Experimental and Numerical Analysis on the K-Joint Laterally Impacted by a Knife Edge Indenter. , 2018, , .		0
54	A Concurrent Multi-Process Refinement method applied in two-dimensional strong-coupled fluid-structure interaction problems. Ocean Engineering, 2020, 197, 106912.	4.3	0

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55	Internal flow effect with non-uniform temperature environment on VIV of marine risers under external shear current. <i>Ships and Offshore Structures</i> , 0, , 1-11.	1.9	0
56	Bending failure analysis of level ice with temperature-gradient effect under inclined structure collision. <i>Ocean Engineering</i> , 2022, 257, 111706.	4.3	0