

Wenhua Zhao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Gap resonance and higher harmonics driven by focused transient wave groups. <i>Journal of Fluid Mechanics</i> , 2017, 812, 905-939.	3.4	116
2	Prediction of hydrodynamic performance of an FLNG system in side-by-side offloading operation. <i>Journal of Fluids and Structures</i> , 2014, 46, 89-110.	3.4	50
3	Estimation of gap resonance relevant to side-by-side offloading. <i>Ocean Engineering</i> , 2018, 153, 1-9.	4.3	47
4	Current practice and research directions in hydrodynamics for FLNG-side-by-side offloading. <i>Ocean Engineering</i> , 2018, 158, 99-110.	4.3	44
5	Coupled analysis of nonlinear sloshing and ship motions. <i>Applied Ocean Research</i> , 2014, 47, 85-97.	4.1	41
6	Dynamics of a taut mooring line accounting for the embedded anchor chains. <i>Ocean Engineering</i> , 2016, 121, 403-413.	4.3	39
7	Freak wave forces on a vertical cylinder. <i>Coastal Engineering</i> , 2016, 114, 9-18.	4.0	36
8	Design loads and long term distribution of mooring line response of a large weathervaning vessel in a tropical cyclone environment. <i>Marine Structures</i> , 2018, 61, 361-380.	3.8	34
9	Linear viscous damping in random wave excited gap resonance at laboratory scale "NewWave analysis and reciprocity. <i>Journal of Fluids and Structures</i> , 2018, 80, 59-76.	3.4	29
10	Nonlinear dynamics and impact load in float-over installation. <i>Applied Ocean Research</i> , 2017, 65, 60-78.	4.1	28
11	Effects of wave excitation force prediction deviations on the discrete control performance of an oscillating wave energy converter. <i>Ships and Offshore Structures</i> , 2016, 11, 351-368.	1.9	25
12	Group dynamics and wave resonances in a narrow gap: modes and reduced group velocity. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	3.4	25
13	Theoretical and numerical estimation of ship-to-ship hydrodynamic interaction effects. <i>Ocean Engineering</i> , 2016, 121, 239-253.	4.3	23
14	Numerical simulation of deterministic freak wave sequences and wave-structure interaction. <i>Ships and Offshore Structures</i> , 2016, 11, 802-817.	1.9	22
15	Hydrodynamics of a 2D vessel including internal sloshing flows. <i>Ocean Engineering</i> , 2014, 84, 45-53.	4.3	21
16	Identifying linear and nonlinear coupling between fluid sloshing in tanks, roll of a barge and external free-surface waves. <i>Journal of Fluid Mechanics</i> , 2018, 844, 403-434.	3.4	21
17	Eliciting features of 2D greenwater overtopping of a fixed box using modified dam break models. <i>Applied Ocean Research</i> , 2019, 84, 74-91.	4.1	21
18	Hydrodynamics of an FLNG system in tandem offloading operation. <i>Ocean Engineering</i> , 2013, 57, 150-162.	4.3	20

#	ARTICLE	IF	CITATIONS
19	Resolving wave and laminar boundary layer scales for gap resonance problems. <i>Journal of Fluid Mechanics</i> , 2019, 866, 759-775.	3.4	20
20	Roll response of an LNG carrier considering the liquid cargo flow. <i>Ocean Engineering</i> , 2017, 129, 83-91.	4.3	18
21	Dependence of critical filling level on excitation amplitude in a rectangular sloshing tank. <i>Ocean Engineering</i> , 2018, 156, 500-511.	4.3	18
22	Hydrodynamic damping of a circular cylinder at low KC: Experiments and an associated model. <i>Marine Structures</i> , 2020, 72, 102777.	3.8	16
23	Development of a Computational Fluid Dynamics Model to Simulate Three-Dimensional Gap Resonance Driven by Surface Waves. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2018, 140, .	1.2	14
24	Effects of sloshing on the global motion responses of FLNG. <i>Ships and Offshore Structures</i> , 2013, 8, 111-122.	1.9	12
25	Motion responses of a moored barge in shallow water. <i>Ocean Engineering</i> , 2015, 97, 207-217.	4.3	12
26	Anchor loads in taut moorings: The impact of inverse catenary shakedown. <i>Applied Ocean Research</i> , 2017, 67, 225-235.	4.1	12
27	Amplification of random wave run-up on the front face of a box driven by tertiary wave interactions. <i>Journal of Fluid Mechanics</i> , 2019, 869, 706-725.	3.4	12
28	Gap resonance from linear to quartic wave excitation and the structure of nonlinear transfer functions. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	3.4	10
29	Coupling Between Roll Motions of an FLNG Vessel and Internal Sloshing. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2014, 136, .	1.2	9
30	Linearity and nonlinearity in wave run-up and air-gap response for a semi-submersible platform under irregular wave excitation. <i>Applied Ocean Research</i> , 2020, 104, 102218.	4.1	9
31	Towards a model of hydrodynamic damping for a circular cylinder with helical strakes at low KC. <i>Marine Structures</i> , 2021, 78, 103025.	3.8	9
32	Effect of Partially Filled Spherical Cargo Tanks on the Roll Response of a Bargelike Vessel. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2016, 138, .	1.2	8
33	Experimental and numerical study of free-surface wave resonance in the gap between two elongated parallel boxes with square corners. <i>Applied Ocean Research</i> , 2020, 104, 102376.	4.1	8
34	Numerical study on gap resonance coupled to vessel motions relevant to side-by-side offloading. <i>Ocean Engineering</i> , 2021, 241, 110045.	4.3	7
35	A fast analysis of vibrations of crystal plates for resonator design applications. , 0, , .		6
36	Experimental and numerical investigation of the roll motion behavior of a floating liquefied natural gas system. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 629-644.	5.1	6

#	ARTICLE	IF	CITATIONS
37	Surge motion of a semi-submersible in freak waves. Ships and Offshore Structures, 2017, 12, 443-451.	1.9	5
38	Fatigue analysis of water intake risers: Hydrodynamic damping effect and a hybrid frequency-time domain method. Marine Structures, 2021, 75, 102869.	3.8	5
39	An efficient focusing model of freak wave generation considering wave reflection effects. Ocean Engineering, 2015, 105, 125-135.	4.3	4
40	The Determination of Electrical Parameters of Partially Plated Quartz Crystal Plates with the Consideration of Dissipation. , 2006, , .		3
41	Design waves and statistics of linear gap resonances in random seas. Flow, 2021, 1, .	2.6	3
42	A data-driven approach for fatigue life of water intake risers. Marine Structures, 2022, 83, 103188.	3.8	3
43	The effect of viscosity on thickness-shear and flexural vibrations of crystal plates. , 0, , .		2
44	Roll Performance of an LNGC with Partially-Filled Spherical Tanks. , 2016, , .		1
45	2016 Best Paper Award. Ships and Offshore Structures, 2017, 12, 303-303.	1.9	0
46	Resonant Fluid Motion in the Narrow Gap between FLNG and LNG Carrier. , 2018, , .		0