

# Xiongliang Yao

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

302  
citations

933447

10  
h-index

996975

15  
g-index

60  
all docs

60  
docs citations

60  
times ranked

225  
citing authors

#	ARTICLE	IF	CITATIONS
1	An exact solution for the free-vibration analysis of functionally graded carbon-nanotube-reinforced composite beams with arbitrary boundary conditions. <i>Scientific Reports</i> , 2017, 7, 12909.	3.3	33
2	A semi-analytical solution for in-plane free vibration analysis of functionally graded carbon nanotube reinforced composite circular arches with elastic restraints. <i>Composite Structures</i> , 2017, 182, 420-434.	5.8	33
3	Free and forced vibration analysis of multi-stepped circular cylindrical shells with arbitrary boundary conditions by the method of reverberation-ray matrix. <i>Thin-Walled Structures</i> , 2017, 116, 154-168.	5.3	31
4	A hybrid wavelet-based adaptive immersed boundary finite-difference lattice Boltzmann method for two-dimensional fluid-structure interaction. <i>Journal of Computational Physics</i> , 2017, 333, 24-48.	3.8	18
5	Structural and acoustic response of a finite stiffened conical shell. <i>Acta Mechanica Solida Sinica</i> , 2015, 28, 200-209.	1.9	17
6	Acoustic radiation from shear deformable ring-stiffened laminated composite cylindrical shell submerged in flowing fluid. <i>Applied Ocean Research</i> , 2016, 61, 65-80.	4.1	14
7	Noise reduction analysis for a stiffened finite plate. <i>Journal of Sound and Vibration</i> , 2014, 333, 228-245.	3.9	11
8	A coupled Volume Penalization-Thermal Lattice Boltzmann method for thermal flows. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 253-266.	4.8	11
9	A new experimental methodology to assess the wall pressure generated by a high-voltage underwater Spark-generated bubble. <i>Results in Physics</i> , 2019, 12, 571-574.	4.1	11
10	Free vibration analysis of open circular cylindrical shells by the method of reverberation-ray matrix. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401663897.	1.6	10
11	Experimental research of underwater explosion bubble dynamics between two parallel plates with various distances. <i>Applied Ocean Research</i> , 2022, 122, 103081.	4.1	10
12	Dynamics of cavitation bubbles in acoustic field near the rigid wall. <i>Ocean Engineering</i> , 2015, 109, 507-516.	4.3	8
13	A Numerical and Experimental Study of Wall Pressure Caused by an Underwater Explosion Bubble. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-10.	1.1	7
14	A Lab-Scale Experiment Approach to the Measurement of Wall Pressure from Near-Field under Water Explosions by a Hopkinson Bar. <i>Shock and Vibration</i> , 2018, 2018, 1-15.	0.6	7
15	An Experimental Approach to the Measurement of Wall Pressure Generated by an Underwater Spark-Generated Bubble by a Hopkinson Bar. <i>Shock and Vibration</i> , 2019, 2019, 1-14.	0.6	7
16	Free vibration analysis of plate/shell coupled structures by the method of reverberation-ray matrix. <i>Journal of Vibroengineering</i> , 2016, 18, 3117-3137.	1.0	6
17	Free Vibration Analysis of Circular Cylindrical Shells with Arbitrary Boundary Conditions by the Method of Reverberation-Ray Matrix. <i>Shock and Vibration</i> , 2016, 2016, 1-18.	0.6	5
18	Dynamics of an Underwater Explosion Bubble near a Rigid Wall: Effect of Slenderness Ratio, Installation, and Distance Parameter. <i>Journal of Coastal Research</i> , 2017, 33, 959-971.	0.3	5

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19	Band Gaps Characteristics Analysis of Periodic Oscillator Coupled Damping Beam. <i>Materials</i> , 2020, 13, 5748.	2.9	5
20	Experimental study and numerical model adequacy assessment of hull structure dynamic response subject to underwater explosion. <i>Ships and Offshore Structures</i> , 2020, 15, 1023-1036.	1.9	5
21	A coupled Two-relaxation-time Lattice Boltzmann-Volume penalization method for flows past obstacles. <i>Mathematics and Computers in Simulation</i> , 2022, 198, 85-105.	4.4	5
22	Ultimate strength and reliability assessment of laminated composite plates under axial compression. <i>Ships and Offshore Structures</i> , 2011, 6, 105-113.	1.9	4
23	Investigation of Coalescing and Bouncing of Rising Bubbles Under the Wake Influences Using SPH Method. , 2014, , .		4
24	Application of response surface method for reliability analysis of stiffened laminated plates. <i>Ships and Offshore Structures</i> , 2015, 10, 653-659.	1.9	4
25	Analytical Models for the Response of the Double-Bottom Structure to Underwater Explosion Based on the Wave Motion Theory. <i>Shock and Vibration</i> , 2016, 2016, 1-21.	0.6	4
26	A study on bubble nuclei population dynamics under reduced pressure. <i>Physics of Fluids</i> , 2020, 32, 112019.	4.0	4
27	Dynamics of an air bubble induced by an adjacent oscillating bubble. <i>Engineering Analysis With Boundary Elements</i> , 2016, 62, 65-77.	3.7	3
28	Experimental investigation on the development features of a gas jet on the surface of a vertical moving body with a constant volume chamber. <i>Physics of Fluids</i> , 2022, 34, .	4.0	3
29	Comparison between the 3D numerical simulation and experiment of the bubble near different boundaries. <i>Science in China Series G: Physics, Mechanics and Astronomy</i> , 2008, 51, 1914-1925.	0.2	2
30	The influence of blocking mass parameters on the vibration isolation performance of a power cabin. <i>Journal of Marine Science and Application</i> , 2011, 10, 25-32.	1.7	2
31	Optimization design of vibration characteristics of ship composite brace with rigid vibration isolation mass. <i>Journal of Marine Science and Application</i> , 2011, 10, 215-219.	1.7	2
32	Experimental study on sound radiation timeâ€frequency characteristics of double cylindrical shell based on EMD. <i>Engineering Computations</i> , 2012, 29, 321-337.	1.4	2
33	Study on Load Characteristics of Underwater Explosion Using RKDG-LS-DGF and BEM. <i>Shock and Vibration</i> , 2015, 2015, 1-10.	0.6	2
34	Semi-analytical and experimental investigation of the whipping response of a cylinder subjected to underwater explosion load. <i>Ships and Offshore Structures</i> , 2019, 14, 600-608.	1.9	2
35	Vibration Band Gap Characteristics of Two-Dimensional Periodic Double-Wall Grillages. <i>Materials</i> , 2021, 14, 7174.	2.9	2
36	Experimental Research on Flow Induced Oscillations in Moonpool Encountered Through Waves. , 2007, , 433.		1

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37	The Investigation on Cabin Noise Control of Ship Structure Based on SEA Graph Method. , 2018, , .		1
38	The Pressure Behavior of Oil Film in Bearing Subjected to High-frequency Dynamic Load. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2010, 46, 93.	0.5	1
39	Fatigue Mitigation Design of Deepwater Steel Catenary Risers. , 2006, , 41.		0
40	Development of Floating System for Recovery of Lithium From Seawater. , 2006, , 217.		0
41	Experimental Research on the Vibration Reduction and Impact Resistance Performances of Offshore Structure Based on Magnetorheological Damper. , 2008, , .		0
42	Numerical analysis of a blocking mass attenuating wave propagation. Journal of Marine Science and Application, 2011, 10, 490-494.	1.7	0
43	Study on the impediment to vibration wave propagation from rigid vibration isolation mass. Journal of Marine Science and Application, 2011, 10, 63-69.	1.7	0
44	Experimental and numerical procedures of a sonar platform with a sound absorption wedge. Journal of Marine Science and Application, 2011, 10, 364-370.	1.7	0
45	Structureborne sound design of typical hull base and underwater model test. Engineering Computations, 2012, 29, 441-460.	1.4	0
46	Investigation on the Post-Ultimate Strength Behaviour of Sandwich Plate. , 2014, , .		0
47	Shock Response of Ship Section to Underwater Explosion With the Cavitation Effect. , 2014, , .		0
48	Shakedown Analysis of Ocean Engineering Structures Subjected to Repeated Dynamic Loads. , 2014, , .		0
49	Experimental Investigation on Mechanical Property of Hybrid Steel-to-Lattice Joint With Pyramidal Carbon Fiber Truss. , 2015, , .		0
50	The Coupling Effects Between the Underwater High-Pressure Bubble and the Marine Structure. , 2015, , .		0
51	The Experiment and Finite Element Analysis of Carbon Fiber Sandwich Beam With Pyramidal Truss Core Structure. , 2016, , .		0
52	Simulation of Fluid and Structure Interface with Immersed Boundary Lattice Boltzmann Method Involving Turbulence Models. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	0
53	Material point method and its application in different failure modes of grillage structure under penetration. Ships and Offshore Structures, 2020, 15, 998-1010.	1.9	0
54	Acceleration Signal Processing Method of Impact Response of Floating Shock Platform Based on Rigid Body Motion Model. Shock and Vibration, 2020, 2020, 1-15.	0.6	0

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55	Research on shock resistance of shipborne equipment based on multibody system discrete-time transfer matrix method. Ships and Offshore Structures, 0, , 1-10.	1.9	0
56	Changes of projectile attitude and its influence parameters during the process of penetration on the ship plate structure through material point method. Journal of Mechanical Science and Technology, 2021, 35, 449-459.	1.5	0
57	Experimental investigation of bubble formation and motion mechanism near the moonpool. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 0, , 147509022110449.	0.5	0
58	Rationale of Riser System Selection for an FPSO Application. , 2007, , .		0
59	Research on Trailing Cavity of Underwater Vehicles Based on Potential Flow Theory. , 2018, , .		0
60	Transient Response of the Steel Plate to Underwater Explosion Bubble. , 2020, , .		0