

Shixiao Fu

List of Publications by Year in descending order

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82
papers

1,656
citations

279798

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315739

38
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83
all docs

83
docs citations

83
times ranked

501
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydroelastic analysis of flexible floating interconnected structures. <i>Ocean Engineering</i> , 2007, 34, 1516-1531.	4.3	132
2	An investigation into the hydrodynamics of a flexible riser undergoing vortex-induced vibration. <i>Journal of Fluids and Structures</i> , 2016, 63, 325-350.	3.4	132
3	VIV response of a long flexible riser fitted with strakes in uniform and linearly sheared currents. <i>Applied Ocean Research</i> , 2015, 52, 102-114.	4.1	74
4	Experimental study of the effects of surface roughness on the vortex-induced vibration response of a flexible cylinder. <i>Ocean Engineering</i> , 2015, 103, 40-54.	4.3	72
5	Fatigue damage of a steel catenary riser from vortex-induced vibration caused by vessel motions. <i>Marine Structures</i> , 2014, 39, 131-156.	3.8	64
6	A discrete-modules-based frequency domain hydroelasticity method for floating structures in inhomogeneous sea conditions. <i>Journal of Fluids and Structures</i> , 2017, 74, 321-339.	3.4	63
7	Dynamic responses of floating fish cage in waves and current. <i>Ocean Engineering</i> , 2013, 72, 297-303.	4.3	62
8	Features of Vortex-Induced Vibration in Oscillatory Flow. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2014, 136, .	1.2	62
9	Fatigue damage induced by vortex-induced vibrations in oscillatory flow. <i>Marine Structures</i> , 2015, 40, 73-91.	3.8	60
10	A time-domain method for hydroelasticity of very large floating structures in inhomogeneous sea conditions. <i>Marine Structures</i> , 2018, 57, 180-192.	3.8	55
11	Nonlinear hydroelastic analysis of an aquaculture fish cage in irregular waves. <i>Marine Structures</i> , 2013, 34, 56-73.	3.8	53
12	A method to estimate the hydroelastic behaviour of VLFS based on multi-rigid-body dynamics and beam bending. <i>Ships and Offshore Structures</i> , 2019, 14, 354-362.	1.9	39
13	Out-of-plane vortex-induced vibration of a steel catenary riser caused by vessel motions. <i>Ocean Engineering</i> , 2015, 109, 389-400.	4.3	38
14	Experimental investigation on the dynamic responses of a free-hanging water intake riser under vessel motion. <i>Marine Structures</i> , 2016, 50, 1-19.	3.8	37
15	Dynamic analyses of floating fish cage collars in waves. <i>Aquacultural Engineering</i> , 2012, 47, 7-15.	3.1	35
16	A time domain prediction method for the vortex-induced vibrations of a flexible riser. <i>Marine Structures</i> , 2018, 59, 458-481.	3.8	31
17	Experimental study of vortex-induced vibration of a twin-tube submerged floating tunnel segment model. <i>Journal of Fluids and Structures</i> , 2020, 94, 102908.	3.4	30
18	VIV response of a flexible cylinder with varied coverage by buoyancy elements and helical strakes. <i>Marine Structures</i> , 2014, 39, 70-89.	3.8	29

#	ARTICLE	IF	CITATIONS
19	Vortex-induced vibration of flexible pipe fitted with helical strakes in oscillatory flow. <i>Ocean Engineering</i> , 2019, 189, 106274.	4.3	29
20	Experimental investigation on hydrodynamics of floating cylinder in oscillatory and steady flows by forced oscillation test. <i>Marine Structures</i> , 2013, 34, 41-55.	3.8	28
21	Experimental investigation of the response performance of VIV on a flexible riser with helical strakes. <i>Ships and Offshore Structures</i> , 2016, 11, 113-128.	1.9	27
22	An efficient time-domain prediction model for vortex-induced vibration of flexible risers under unsteady flows. <i>Marine Structures</i> , 2019, 64, 492-519.	3.8	27
23	Distribution of drag force coefficient along a flexible riser undergoing VIV in sheared flow. <i>Ocean Engineering</i> , 2016, 126, 1-11.	4.3	24
24	Time-varying hydrodynamics of a flexible riser under multi-frequency vortex-induced vibrations. <i>Journal of Fluids and Structures</i> , 2018, 80, 217-244.	3.4	23
25	Second-order hydroelastic analysis of a floating plate in multidirectional irregular waves. <i>International Journal of Non-Linear Mechanics</i> , 2006, 41, 1206-1218.	2.6	21
26	Dynamic responses of a ribbon floating bridge under moving loads. <i>Marine Structures</i> , 2012, 29, 246-256.	3.8	21
27	Experimental Investigation on Vortex-Induced Vibration of a Free-Hanging Riser Under Vessel Motion and Uniform Current. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017, 139, .	1.2	21
28	Hydrodynamics of a flexible cylinder under modulated vortex-induced vibrations. <i>Journal of Fluids and Structures</i> , 2020, 94, 102913.	3.4	21
29	Hydrodynamic forces on a partially submerged cylinder at high Reynolds number in a steady flow. <i>Applied Ocean Research</i> , 2019, 88, 160-169.	4.1	20
30	Experimental study on response performance of vortex-induced vibration on a flexible cylinder. <i>Ships and Offshore Structures</i> , 2017, 12, 116-134.	1.9	19
31	Dominant parameters for vortex-induced vibration of a steel catenary riser under vessel motion. <i>Ocean Engineering</i> , 2017, 136, 260-271.	4.3	19
32	Experimental investigation on vortex-induced force of a Steel Catenary Riser under in-plane vessel motion. <i>Marine Structures</i> , 2021, 78, 102882.	3.8	19
33	Evaluation of vortex-induced vibration of a steel catenary riser in steady current and vessel motion-induced oscillatory current. <i>Journal of Fluids and Structures</i> , 2018, 82, 412-431.	3.4	18
34	A Time-Domain Method for Hydroelasticity of a Curved Floating Bridge in Inhomogeneous Waves. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	1.2	18
35	Numerical simulation of wave-induced hydroelastic response and flow-induced vibration of a twin-tube submerged floating tunnel. <i>Marine Structures</i> , 2022, 82, 103124.	3.8	18
36	A hybrid FEM-DNN-based vortex-induced Vibration Prediction Method for Flexible Pipes under oscillatory flow in the time domain. <i>Ocean Engineering</i> , 2022, 246, 110488.	4.3	14

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37	Hydrodynamic Forces and Coefficients on Flexible Risers Undergoing Vortex-Induced Vibrations in Uniform Flow. Journal of Waterway, Port, Coastal and Ocean Engineering, 2016, 142, .	1.2	13
38	Hydrodynamics of Flexible Pipe With Staggered Buoyancy Elements Undergoing Vortex-Induced Vibrations. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	13
39	Distribution of drag coefficients along a flexible pipe with helical strakes in uniform flow. Ocean Engineering, 2019, 184, 216-226.	4.3	13
40	Experimental study on the drag forces on a twin-tube submerged floating tunnel segment model in current. Applied Ocean Research, 2020, 104, 102326.	4.1	12
41	VIV of Flexible Cylinder in Oscillatory Flow. , 2013, , .		11
42	Drag and added mass coefficients of a flexible pipe undergoing vortex-induced vibration in an oscillatory flow. Ocean Engineering, 2020, 210, 107541.	4.3	11
43	Vortex-Induced Vibration of Steel Catenary Riser Under Vessel Motion. , 2014, , .		10
44	An experimental investigation on interfering VIVs of double and triple unequal-diameter flexible cylinders in tandem. Marine Structures, 2022, 84, 103247.	3.8	9
45	Experimental Investigation on Hydrodynamics of a Fish Cage Floater-net System in Oscillatory and Steady Flows by Forced Oscillation Tests. Journal of Ship Research, 2014, 58, 20-29.	1.1	8
46	Numerical study on the characteristics of vortex-induced vibrations of a small-scale subsea jumper using a wake oscillator model. Ocean Engineering, 2022, 243, 110028.	4.3	8
47	Experimental investigation on vortex-induced force of a flexible pipe under oscillatory flow. Applied Ocean Research, 2022, 126, 103269.	4.1	8
48	Experimental Investigation on Vortex-Induced Vibration of Risers With Staggered Buoyancy. , 2011, , .		7
49	A modal space based direct method for vortex-induced vibration prediction of flexible risers. Ocean Engineering, 2018, 152, 191-202.	4.3	7
50	Magnification of hydrodynamic coefficients on a flexible pipe fitted with helical strakes in oscillatory flows. Ocean Engineering, 2020, 210, 107543.	4.3	7
51	Experimental Investigation on VIV of the Flexible Model Under Full Scale Re Number. , 2011, , .		6
52	Seabed Effects on the Hydrodynamics of a Circular Cylinder Undergoing Vortex-Induced Vibration at High Reynolds Number. Journal of Waterway, Port, Coastal and Ocean Engineering, 2014, 140, 04014008.	1.2	6
53	Hydroelasticity based fatigue assessment of the connector for a ribbon bridge subjected to a moving load. Marine Structures, 2009, 22, 246-260.	3.8	5
54	Numerical prediction of vortex-induced vibrations of a long flexible riser with an axially varying tension based on a wake oscillator model. Marine Structures, 2022, 85, 103265.	3.8	5

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55	Numerical study of the generation and evolution of breather-type rogue waves. <i>Ships and Offshore Structures</i> , 2017, 12, 66-76.	1.9	4
56	A Time-Domain Method for Hydroelastic Analysis of Floating Bridges in Inhomogeneous Waves. , 2017, , .		4
57	Global motion reconstruction of a steel catenary riser under vessel motion. <i>Ships and Offshore Structures</i> , 2019, 14, 442-456.	1.9	4
58	Hydrodynamic Forces of a Semi-Submerged Cylinder in an Oscillatory Flow. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6404.	2.5	4
59	Experimental Investigation on Vortex-Induced Vibration of a Flexible Pipe under Higher Mode in an Oscillatory Flow. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 408.	2.6	4
60	Application of a modified wake oscillator model to vortex-induced vibration of a free-hanging riser subjected to vessel motion. <i>Ocean Engineering</i> , 2022, 253, 111165.	4.3	4
61	Extreme Response of Very Large Floating Structure Considering Second-Order Hydroelastic Effects in Multidirectional Irregular Waves. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2010, 132, .	1.2	3
62	A Hybrid Empirical-Numerical Method for Hydroelastic Analysis of a Floater-and-Net System. <i>Journal of Ship Research</i> , 2016, 60, 14-29.	1.1	3
63	Three-dimensional wake transition in the flow over four square cylinders at low Reynolds numbers. <i>AIP Advances</i> , 2020, 10, 015142.	1.3	3
64	Phase Angles of the Vibrations and Hydrodynamic Forces of the Flexible Risers Undergoing Vortex-Induced Vibration. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2017, 139, .	1.2	2
65	Nonlinear Hydrodynamics of a Floating Cylinder in Oscillatory Flow Alone and Combined with a Current. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2017, 143, 04016015.	1.2	2
66	A Comparison Study on the Hydroelasticity of Two Types of Floating Bridges in Inhomogeneous Wave Conditions. , 2018, , .		2
67	A Time Domain Prediction Method for Vortex-Induced Vibrations of a Flexible Pipe With Time-Varying Tension. , 2018, , .		2
68	Time Varying Hydrodynamics Identification of a Flexible Riser Under Multi-Frequency Vortex-Induced Vibrations. , 2017, , .		1
69	Ribbon bridge in waves based on hydroelasticity theory. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2009, 3, 57-62.	0.4	0
70	Dynamic Analysis of Aquaculture Fish Cages in Irregular Waves. , 2013, , .		0
71	Hydrodynamic Response of Multiple Fish Cages Under Wave Loads. , 2014, , .		0
72	Numerical Study on the Deformation of a Net Panel in Steady and Oscillatory Flow. , 2015, , .		0

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73	Investigation Into Stability and Accuracy in Predicting Slender Bodiesâ€™ Hydroelasticity Using Loose Coupling Methods. , 2015, , .		0
74	A Non-Iterative Method for Vortex Induced Vibration Prediction of Marine Risers. , 2017, , .		0
75	Experimental Investigation on the Hydrodynamic Responses and Coefficients of Straked Flexible Pipe in Oscillatory Flow. , 2018, , .		0
76	Hydro-Elastic Analysis of a Floating Bridge in Waves Considering the Effect of the Hydrodynamic Coupling and the Shore Sides. , 2018, , .		0
77	Aquaculture Structures: Experimental Techniques. , 2021, , 1-14.		0
78	Very Large Floating Structures (VLFS): Overview. , 2021, , 1-8.		0
79	Experimental Research on Vortex-Induced Force Characteristics of Flexible Riser with Buoyancy Module and Strakes. Applied Sciences (Switzerland), 2022, 12, 6180.	2.5	0
80	Very Large Floating Structures (VLFS): Overview. , 2022, , 2095-2103.		0
81	Aquaculture Structures: Experimental Techniques. , 2022, , 42-56.		0
82	Hydroelasticity Theory. , 2022, , 757-767.		0