Tomoaki Utsunomiya

List of Publications by Year
in descending order

100	1,348	430754 18	377752 34
papers	citations	h-index	g-index

101	101	101	671
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coupled response characteristics of cold water pipe and moored ship for floating OTEC plant. Applied Ocean Research, 2022, 123, 103151.	1.8	6
2	Development of interlink wear estimation method for mooring chain of floating structures: Validation and new approach using three-dimensional contact response. Marine Structures, 2021, 77, 102927.	1.6	6
3	Linear vs non-linear analysis on self-induced vibration of OTEC cold water pipe due to internal flow. Applied Ocean Research, 2021, 110, 102610.	1.8	16
4	Experimental Study on Wear Coefficient of Mooring Chain for Floating Offshore Structures. Journal of the Japan Society of Naval Architects and Ocean Engineers, 2021, 34, 63-71.	0.2	0
5	Preliminary design of a 100ÂMW-net ocean thermal energy conversion (OTEC) power plant study case: Mentawai island, Indonesia. Journal of Marine Science and Technology, 2020, 25, 48-68.	1.3	32
6	A study on the platform-pitching vibration of floating offshore wind turbines based on classical control theory. Wind Engineering, 2020, 44, 610-630.	1.1	3
7	Proposal for a lower limit control of a generatorâ€™s torque based on the nacelle wind speed and demonstration results using a full-scale spar-type floating offshore wind turbine. Wind Engineering, 2020, 44, 645-660.	1.1	2
8	Validation of dynamic response of a 2-MW hybrid-spar floating wind turbine during typhoon using full-scale field data. Ocean Engineering, 2020, 218, 108262.	1.9	21
9	A Study on Coupled Behavior Analysis and Position Keeping System for OTEC Plantship and Cold Water Pipe. Journal of the Japan Society of Naval Architects and Ocean Engineers, 2020, 32, 193-207.	0.2	0
10	Floating Offshore Wind Turbines in Goto Islands, Nagasaki, Japan. Lecture Notes in Civil Engineering, 2020, , 103-113.	0.3	0
11	Stability based approach to design cold-water pipe (CWP) for ocean thermal energy conversion (OTEC). Applied Ocean Research, 2019, 92, 101921.	1.8	34
12	Numerical Modeling and Analysis of a Hybrid-Spar Floating Wind Turbine. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	6
13	Quantitative Wear Estimation for Mooring Chain of Floating Structures and Its Validation. Journal of the Japan Society of Naval Architects and Ocean Engineers, 2019, 30, 131-141.	0.2	0
14	Irregular Frequency Removal and Convergence in Higher-Order BEM for Wave Diffraction/Radiation Analysis. , 2019, , .		2
15	Stability Analysis of Free Hanging Riser Conveying Fluid for Ocean Thermal Energy Conversion (OTEC) Utilization. , 2019, , .		1
16	Comparison of Dynamic Response in a 2MW Floating Offshore Wind Turbine During Typhoon Approaches. , 2019, , .		0
17	Quantitative Wear Estimation for Mooring Chain of Floating Structures and its Validation. , 2019, , .		0
18	Wear Performance of Mooring Chain in Wet Environment With Substitute Ocean Water. , 2019, , .		0

#	Article	IF	Citations
19	At-Sea Experiment on Durability and Residual Strength of Polyester Rope for Mooring of Floating Wind Turbine. , 2019, , .		3
20	Review of recent research and developments on floating breakwaters. Ocean Engineering, 2018, 158, 132-151.	1.9	137
21	Experimental results of floating platform vibration control with mode change function using full-scale spar-type floating offshore wind turbine. Wind Engineering, 2018, 42, 230-242.	1.1	7
22	Effect of Tensile Force for Wear Performance of Mooring Chain. , 2018, , .		2
23	On-Site Measurement and Numerical Modelling of a Lifting Operation for Caissons Using Floating Crane. , 2018, , .		0
24	Design Optimization of Floating Structure for a 100 MW-Net Ocean Thermal Energy Conversion (OTEC) Power Plant. , 2018, , .		1
25	Experimental Study on Specific Wear of Mooring Chain for Floating Structure. Journal of the Japan Society of Naval Architects and Ocean Engineers, 2018, 28, 145-154.	0.2	2
26	Demonstration Test for Using Suction Anchor and Polyester Rope in Floating Offshore Wind Turbine. , 2017, , .		2
27	Numerical Modelling and Analysis of a Hybrid-Spar Floating Wind Turbine. , 2017, , .		0
28	State-of-the-Art. Green Energy and Technology, 2016, , 271-331.	0.4	3
29	Design and Installation of a Hybrid-Spar Floating Wind Turbine Platform. , 2015, , .		8
30	Dynamic Analysis of a Floating Offshore Wind Turbine Under Extreme Environmental Conditions. Journal of Offshore Mechanics and Arctic Engineering, 2014, 136, .	0.6	20
31	Floating offshore wind turbine demonstration project at Goto Islands, Japan. , 2014, , .		7
32	An explicit application of partition of unity approach to XFEM approximation for precise reproduction ofa prioriknowledge of solution. International Journal for Numerical Methods in Engineering, 2014, 97, 551-581.	1.5	6
33	Dynamic Response of a Spar-Type Floating Wind Turbine at Power Generation. , 2014, , .		7
34	At Sea Experiment of a Hybrid Spar for Floating Offshore Wind Turbine Using 1/10-Scale Model. Journal of Offshore Mechanics and Arctic Engineering, 2013, 135, .	0.6	33
35	At-Sea Experiment of a Hybrid SPAR Type Offshore Wind Turbine. , 2013, , .		12
36	Dynamic Response Analysis of a Floating Offshore Wind Turbine During Severe Typhoon Event. , 2013, , .		16

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37	Dynamic Analysis of a Floating Offshore Wind Turbine Under Extreme Environmental Conditions. , 2012, , .		3
38	Study on Parametric Excitation of a Spar Platform. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics (AM)), 2012, 68, I_813-I_822.	0.1	0
39	Model Experiment of a SPAR Type Offshore Wind Turbine in Storm Condition. , 2012, , .		9
40	Evaluation on reproduction of priori knowledge in XFEM. Finite Elements in Analysis and Design, 2011, 47, 424-433.	1.7	9
41	On Sea Experiment of a Hybrid SPAR for Floating Offshore Wind Turbine Using 1/10 Scale Model. , 2010, , .		14
42	Response prediction of long flexible risers subject to forced harmonic vibration. Journal of Marine Science and Technology, 2010, 15, 44-53.	1.3	6
43	Hydrodynamic forces on a rolling barge with bilge keels. Applied Ocean Research, 2010, 32, 219-232.	1.8	20
44	Research on floating wind turbines: a literature survey. IES Journal Part A: Civil and Structural Engineering, 2010, 3, 267-277.	0.4	53
45	FORMULATION OF XFEM BASED ON PUFEM FOR AVOIDING PROBLEM CAUSED BY BLENDING ELEMENTS. Doboku Gakkai Ronbunshuu A, 2009, 65, 228-242.	0.3	2
46	Hydroelastic responses and interactions of floating fuel storage modules placed side-by-side with floating breakwaters. Marine Structures, 2009, 22, 633-658.	1.6	39
47	Reformulation of XFEM based on PUFEM for solving problem caused by blending elements. Finite Elements in Analysis and Design, 2009, 45, 806-816.	1.7	32
48	Experimental Validation for Motion of a SPAR-Type Floating Offshore Wind Turbine Using 1/22.5 Scale Model. , 2009, , .		33
49	A STUDY ON REPRODUCIBILITY OF PRIORI KNOWLEDGE IN CRACK ANNALISIS BY THE XFEM. Doboku Gakkai Ronbunshuu A, 2009, 65, 955-960.	0.3	0
50	Hydroelastic analysis of pontoon-type circular VLFS with an attached submerged plate. Applied Ocean Research, 2008, 30, 287-296.	1.8	24
51	Evaluation of Viscous Forces Acting on A Moving Body by Navier-Stokes Solver. , 2008, , .		2
52	Hydroelastic Analysis of a Hybrid-Type VLFS in Water of Variable Depth. , 2008, , .		0
53	Heaving response of a large floating platform. IES Journal Part A: Civil and Structural Engineering, 2008, 1, 97-105.	0.4	2
54	Motion analysis of a floating offshore wind turbine considering rotor-rotation. IES Journal Part A: Civil and Structural Engineering, 2008, 1, 268-279.	0.4	14

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55	Title is missing!. Proceedings of Civil Engineering in the Ocean, 2008, 24, 135-140.	0.0	3
56	Experimental Validation of Hydroelastic Analysis of Pontoon-, Semisubmersible- and Hybrid-Type VLFS. , 2008, , .		0
57	MOTION ANALYSIS OF A FLOATING OFFSHORE WIND TURBINE DURING THE ROTOR-ROTATION UNDER WIND LOADS. Proceedings of Civil Engineering in the Ocean, 2008, 24, 141-146.	0.0	0
58	EVALUATION OF BLENDING ELEMENTS IN XFEM ON CRACK ANALYSIS AND PROPOSAL FOR IMPROVEMENT OF ANALYTICAL ACCURACY. Doboku Gakkai Ronbunshuu A, 2008, 64, 970-981.	0.3	3
59	PROPOSAL ON APPROXIMATION OF PATH-INDEPENDENT M-INTEGRAL BY MAPPING AND ANALYSES OF KINKED OR CURVED CRACK USING X-FEM. Doboku Gakkai Ronbunshuu A, 2008, 64, 303-316.	0.3	5
60	VIBRATION-BASED DAMAGE DETECTION IN FLEXIBLE RISERS USING TIME SERIES ANALYSIS. Doboku Gakkai Ronbunshuu A, 2007, 63, 423-433.	0.3	9
61	CURVED-CRACK MODELING BY X-FEM AND ITS APPLICATION FOR SIMULATION OF CRACK GROWTH. Doboku Gakkai Ronbunshuu A, 2007, 63, 108-121.	0.3	5
62	EXPERIMENT ON MOTIONS OF ELASTIC FLOATING BRIDGE IN WINDS AND WAVES. Doboku Gakkai Ronbunshuu A, 2007, 63, 206-219.	0.3	3
63	Title is missing!. Proceedings of Civil Engineering in the Ocean, 2007, 23, 919-924.	0.0	1
64	VIBRATION-BASED DAMAGE DETECTION IN FLEXIBLE RISERS USING TIME SERIES ANALYSIS. Structural Engineering/Earthquake Engineering, 2007, 24, 62s-72s.	0.3	0
65	ELASTO-PLASTIC ANALYSIS OF PC GIRDER WITH CORRUGATED STEEL WEB BY AN EFFICIENT BEAM THEORY. Doboku Gakkai Ronbunshuu A, 2006, 62, 393-404.	0.3	0
66	DEVELOPMENT OF A PROGRAM FOR DYNAMIC RESPONSE SIMULATION OF A FLOATING BRDIGE SUBJECTED TO BOTH WINDS AND WAVES. Doboku Gakkai Ronbunshuu A, 2006, 62, 729-739.	0.3	1
67	ELASTO-PLASTIC ANALYSIS OF PC GIRDER WITH CORRUGATED STEEL WEB BY AN EFFICIENT BEAM THEORY. Structural Engineering/Earthquake Engineering, 2006, 23, 257s-268s.	0.3	6
68	IMPROVEMENT OF CALCULATION ACCURACY OF WAVE DRIFT FORCES ACTING ON A MARINE STRUCTURE. Proceedings of Civil Engineering in the Ocean, 2006, 22, 673-678.	0.0	0
69	Benchmark hydroelastic responses of a circular VLFS under wave action. Engineering Structures, 2006, 28, 423-430.	2.6	42
70	Effectiveness of GMRES-DR and OSP-ILUC for wave diffraction analysis of a very large floating structure (VLFS). Engineering Analysis With Boundary Elements, 2006, 30, 49-58.	2.0	1
71	Analysis of the slowly varying drift force on a very large floating structure in multidirectional random seas. Journal of Marine Science and Technology, 2006, 11, 229-236.	1.3	3
72	LSFD method for accurate vibration modes and modal stress-resultants of freely vibrating plates that model VLFS. Computers and Structures, 2006, 84, 2329-2339.	2.4	7

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73	WAVE DIFFRACTION ANALYSIS FOR A VERY LARGE FLOATING STRUCTURE BY ACCELERATED GREEN'S FUNCTION METHOD IN INFINITE WATER DEPTH. Doboku Gakkai Ronbunshuu A, 2006, 62, 143-152.	0.3	0
74	DEVELOPMENT OF 3D ELASTODYNAMIC INFINITE ELEMENTS FOR SOIL-STRUCTURE INTERACTION PROBLEMS. International Journal of Structural Stability and Dynamics, 2004, 04, 423-441.	1.5	18
75	SHEAR BUCKLING OF CORRUGATED PLATES WITH EDGES ELASTICALLY RESTRAINED AGAINST ROTATION. International Journal of Structural Stability and Dynamics, 2004, 04, 89-104.	1.5	20
76	Hydroelastic analysis of pontoon-type VLFS: a literature survey. Engineering Structures, 2004, 26, 245-256.	2.6	272
77	Mode shapes and stress-resultants of circular Mindlin plates with free edges. Journal of Sound and Vibration, 2004, 276, 511-525.	2.1	18
78	ANALYSIS OF CORRUGATED STEEL WEB GIRDERS BY AN EFFICIENT BEAM BENDING THEORY. Doboku Gakkai Ronbunshu, 2004, 2004, 19-30.	0.2	2
79	ANALYSIS OF CORRUGATED STEEL WEB GIRDERS BY AN EFFICIENT BEAM BENDING THEORY. Structural Engineering/Earthquake Engineering, 2004, 21, 131S-142S.	0.3	18
80	Analysis and design of floating bridges. Structural Control and Health Monitoring, 2003, 5, 127-144.	0.7	36
81	Evaluation of modal stress resultants in freely vibrating plates. International Journal of Solids and Structures, 2001, 38, 6525-6558.	1.3	25
82	RESONANCES IN WAVE DIFFRACTION/RADIATION FOR ARRAYS OF ELASTICALLY CONNECTED CYLINDERS. Journal of Fluids and Structures, 2000, 14, 1035-1051.	1.5	7
83	Analysis of wave-drift damping of a VLFS with shallow draft. Marine Structures, 2000, 13, 383-397.	1.6	12
84	Trapped modes around a row of circular cylinders in a channel. Journal of Fluid Mechanics, 1999, 386, 259-279.	1.4	36
85	Wave Response Analysis of a Very Large Floating Structure Close to a Breakwater. Proceedings of Civil Engineering in the Ocean, 1998, 14, 149-154.	0.0	1
86	Wave response analysis of a floating bridge for strait crossing. Proceedings of Civil Engineering in the Ocean, 1998, 14, 155-160.	0.0	0
87	Development of Higher Order BEM Program for Wave Response Analysis of Very Large Floaring Structures. Proceedings of Civil Engineering in the Ocean, 1997, 13, 201-206.	0.0	1
88	Wave Response Analysis of a Full Scale Floating Bridge Considering Fender Nonlinearity and Elastic Deformation of Structural System. Proceedings of Civil Engineering in the Ocean, 1997, 13, 207-212.	0.0	0
89	HARMONIC WAVE RESPONSE ANALYSIS OF ELASTIC FLOATING PLATES BY MODAL SUPERPOSITION METHOD. Doboku Gakkai Ronbunshu, 1997, 1997, 43-52.	0.2	7
90	Wave Response of Bridges with Independent Column-type Floating Foundations. Proceedings of Civil Engineering in the Ocean, 1996, 12, 157-160.	0.0	0

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91	Experiment and Analysis of Wave Response of a Large Flexible Floating Structure. Proceedings of Civil Engineering in the Ocean, 1995, 11, 363-368.	0.0	0
92	Shape Effect of Floating Foundations to Wave Response of a Floating Bridge. Proceedings of Civil Engineering in the Ocean, 1995, 11, 333-338.	0.0	0
93	Wave Equation under Elastic Floating Body. Proceedings of Civil Engineering in the Ocean, 1995, 11, 357-361.	0.0	0
94	WAVE RESPONSE ANALYSIS OF A FLEXIBLE FLOATING STRUCTURE BY A SIMPLE BEAM MODEL. Doboku Gakkai Ronbunshu, 1995, 1995, 309-317.	0.2	1
95	An eigenfunction expansion-matching method for analyzing the wave-induced responses of an elastic floating plate. Applied Ocean Research, 1995, 17, 301-310.	1.8	118
96	Biaxial stress measurement using a magnetic probe based on the law of approach to saturation magnetization. NDT and E International, 1991, 24, 91-94.	1.7	1
97	Effect of stress on the law of approach to saturation magnetization in carbon steels. IEEE Transactions on Magnetics, 1991, 27, 3420-3425.	1.2	4
98	Effects of Carbon and Plastic Strain on Stress Measurement of Steel Based on the Law of Approach to Saturation Magnetization.. Zairyo/Journal of the Society of Materials Science, Japan, 1991, 40, 832-836.	0.1	1
99	A magnetic method for measuring stress based on law of approach to saturation magnetization.. Journal of Advanced Science, 1989, 1, 79-81.	0.1	0
100	Non-destructive measurement of stress in steel by magnetic sensor acting under high biasing field.. Zairyo/Journal of the Society of Materials Science, Japan, 1988, 37, 626-630.	0.1	2