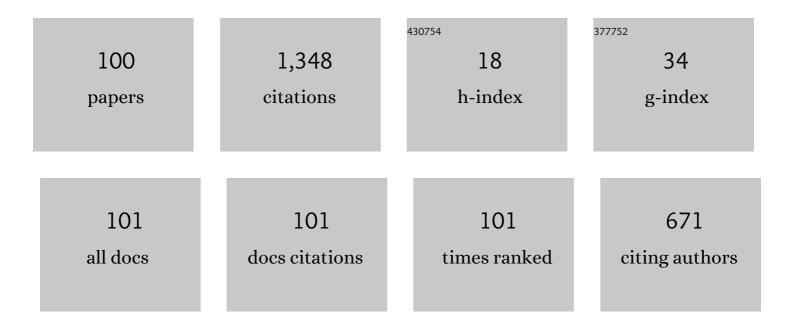
Tomoaki Utsunomiya

List of Publications by Year in descending order

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TOMOAKI UTSUNOMIYA

#	Article	IF	CITATIONS
1	Hydroelastic analysis of pontoon-type VLFS: a literature survey. Engineering Structures, 2004, 26, 245-256.	2.6	272
2	Review of recent research and developments on floating breakwaters. Ocean Engineering, 2018, 158, 132-151.	1.9	137
3	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
4	Research on floating wind turbines: a literature survey. IES Journal Part A: Civil and Structural Engineering, 2010, 3, 267-277.	0.4	53
5	Benchmark hydroelastic responses of a circular VLFS under wave action. Engineering Structures, 2006, 28, 423-430.	2.6	42
6	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
7	Trapped modes around a row of circular cylinders in a channel. Journal of Fluid Mechanics, 1999, 386, 259-279.	1.4	36
8	Analysis and design of floating bridges. Structural Control and Health Monitoring, 2003, 5, 127-144.	0.7	36
9	Stability based approach to design cold-water pipe (CWP) for ocean thermal energy conversion (OTEC). Applied Ocean Research, 2019, 92, 101921.	1.8	34
10	Experimental Validation for Motion of a SPAR-Type Floating Offshore Wind Turbine Using 1/22.5 Scale Model. , 2009, , .		33
11	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
12	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
13	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
14	Evaluation of modal stress resultants in freely vibrating plates. International Journal of Solids and Structures, 2001, 38, 6525-6558.	1.3	25
15	Hydroelastic analysis of pontoon-type circular VLFS with an attached submerged plate. Applied Ocean Research, 2008, 30, 287-296.	1.8	24
16	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
17	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
18	Hydrodynamic forces on a rolling barge with bilge keels. Applied Ocean Research, 2010, 32, 219-232.	1.8	20

#	Article	IF	CITATIONS
19	Dynamic Analysis of a Floating Offshore Wind Turbine Under Extreme Environmental Conditions. Journal of Offshore Mechanics and Arctic Engineering, 2014, 136, .	0.6	20
20	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
21	Mode shapes and stress-resultants of circular Mindlin plates with free edges. Journal of Sound and Vibration, 2004, 276, 511-525.	2.1	18
22	ANALYSIS OF CORRUGATED STEEL WEB GIRDERS BY AN EFFICIENT BEAM BENDING THEORY. Structural Engineering/Earthquake Engineering, 2004, 21, 131S-142S.	0.3	18
23	Dynamic Response Analysis of a Floating Offshore Wind Turbine During Severe Typhoon Event. , 2013, , .		16
24	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
25	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
26	On Sea Experiment of a Hybrid SPAR for Floating Offshore Wind Turbine Using $1/10$ Scale Model. , 2010, , .		14
27	Analysis of wave-drift damping of a VLFS with shallow draft. Marine Structures, 2000, 13, 383-397.	1.6	12
28	At-Sea Experiment of a Hybrid SPAR Type Offshore Wind Turbine. , 2013, , .		12
29	VIBRATION-BASED DAMAGE DETECTION IN FLEXIBLE RISERS USING TIME SERIES ANALYSIS. Doboku Gakkai Ronbunshuu A, 2007, 63, 423-433.	0.3	9
30	Evaluation on reproduction of priori knowledge in XFEM. Finite Elements in Analysis and Design, 2011, 47, 424-433.	1.7	9
31	Model Experiment of a SPAR Type Offshore Wind Turbine in Storm Condition. , 2012, , .		9
32	Design and Installation of a Hybrid-Spar Floating Wind Turbine Platform. , 2015, , .		8
33	HARMONIC WAVE RESPONSE ANALYSIS OF ELASTIC FLOATING PLATES BY MODAL SUPERPOSITION METHOD. Doboku Gakkai Ronbunshu, 1997, 1997, 43-52.	0.2	7
34	RESONANCES IN WAVE DIFFRACTION/RADIATION FOR ARRAYS OF ELASTICALLY CONNECTED CYLINDERS. Journal of Fluids and Structures, 2000, 14, 1035-1051.	1.5	7
35	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
36	Floating offshore wind turbine demonstration project at Goto Islands, Japan. , 2014, , .		7

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37	Dynamic Response of a Spar-Type Floating Wind Turbine at Power Generation. , 2014, , .		7
38	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
39	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
40	Response prediction of long flexible risers subject to forced harmonic vibration. Journal of Marine Science and Technology, 2010, 15, 44-53.	1.3	6
41	An explicit application of partition of unity approach to XFEM approximation for precise reproduction of <i>a priori</i> knowledge of solution. International Journal for Numerical Methods in Engineering, 2014, 97, 551-581.	1.5	6
42	Numerical Modeling and Analysis of a Hybrid-Spar Floating Wind Turbine. Journal of Offshore Mechanics and Arctic Engineering, 2019, 141, .	0.6	6
43	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
44	Coupled response characteristics of cold water pipe and moored ship for floating OTEC plant. Applied Ocean Research, 2022, 123, 103151.	1.8	6
45	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
46	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
47	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
48	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
49	Title is missing!. Proceedings of Civil Engineering in the Ocean, 2008, 24, 135-140.	0.0	3
50	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
51	Dynamic Analysis of a Floating Offshore Wind Turbine Under Extreme Environmental Conditions. , 2012, , .		3
52	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
53	State-of-the-Art. Green Energy and Technology, 2016, , 271-331.	0.4	3
54	EXPERIMENT ON MOTIONS OF ELASTIC FLOATING BRIDGE IN WINDS AND WAVES. Doboku Gakkai Ronbunshuu A, 2007, 63, 206-219.	0.3	3

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55	At-Sea Experiment on Durability and Residual Strength of Polyester Rope for Mooring of Floating Wind Turbine. , 2019, , .		3
56	ANALYSIS OF CORRUGATED STEEL WEB GIRDERS BY AN EFFICIENT BEAM BENDING THEORY. Doboku Gakkai Ronbunshu, 2004, 2004, 19-30.	0.2	2
57	Evaluation of Viscous Forces Acting on A Moving Body by Navier-Stokes Solver. , 2008, , .		2
58	Heaving response of a large floating platform. IES Journal Part A: Civil and Structural Engineering, 2008, 1, 97-105.	0.4	2
59	FORMULATION OF XFEM BASED ON PUFEM FOR AVOIDING PROBLEM CAUSED BY BLENDING ELEMENTS. Doboku Gakkai Ronbunshuu A, 2009, 65, 228-242.	0.3	2
60	Demonstration Test for Using Suction Anchor and Polyester Rope in Floating Offshore Wind Turbine. , 2017, , .		2
61	Effect of Tensile Force for Wear Performance of Mooring Chain. , 2018, , .		2
62	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
63	Proposal for a lower limit control of a generator'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
64	Irregular Frequency Removal and Convergence in Higher-Order BEM for Wave Diffraction/Radiation Analysis. , 2019, , .		2
65	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
66	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
67	WAVE RESPONSE ANALYSIS OF A FLEXIBLE FLOATING STRUCTURE BY A SIMPLE BEAM MODEL. Doboku Gakkai Ronbunshu, 1995, 1995, 309-317.	0.2	1
68	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
69	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
70	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
71	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
72	Design Optimization of Floating Structure for a 100 MW-Net Ocean Thermal Energy Conversion (OTEC) Power Plant. , 2018, , .		1

#	Article	IF	CITATIONS
73	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
74	Title is missing!. Proceedings of Civil Engineering in the Ocean, 2007, 23, 919-924.	0.0	1
75	Stability Analysis of Free Hanging Riser Conveying Fluid for Ocean Thermal Energy Conversion (OTEC) Utilization. , 2019, , .		1
76	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
77	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
78	Wave Equation under Elastic Floating Body. Proceedings of Civil Engineering in the Ocean, 1995, 11, 357-361.	0.0	0
79	Wave Response of Bridges with Independent Column-type Floating Foundations. Proceedings of Civil Engineering in the Ocean, 1996, 12, 157-160.	0.0	0
80	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
81	Wave response analysis of a floating bridge for strait crossing. Proceedings of Civil Engineering in the Ocean, 1998, 14, 155-160.	0.0	0
82	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
83	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
84	Hydroelastic Analysis of a Hybrid-Type VLFS in Water of Variable Depth. , 2008, , .		0
85	Experimental Validation of Hydroelastic Analysis of Pontoon-, Semisubmersible- and Hybrid-Type VLFS. , 2008, , .		0
86	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
87	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
88	Numerical Modelling and Analysis of a Hybrid-Spar Floating Wind Turbine. , 2017, , .		0
89	On-Site Measurement and Numerical Modelling of a Lifting Operation for Caissons Using Floating Crane. , 2018, , .		0
90	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

#	Article	IF	CITATIONS
91	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
92	VIBRATION-BASED DAMAGE DETECTION IN FLEXIBLE RISERS USING TIME SERIES ANALYSIS. Structural Engineering/Earthquake Engineering, 2007, 24, 62s-72s.	0.3	0
93	A STUDY ON REPRODUCIBILITY OF PRIORI KNOWLEDGE IN CRACK ANNALISIS BY THE XFEM. Doboku Gakkai Ronbunshuu A, 2009, 65, 955-960.	0.3	0
94	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
95	Comparison of Dynamic Response in a 2MW Floating Offshore Wind Turbine During Typhoon Approaches. , 2019, , .		0
96	Quantitative Wear Estimation for Mooring Chain of Floating Structures and its Validation. , 2019, , .		0
97	Wear Performance of Mooring Chain in Wet Environment With Substitute Ocean Water. , 2019, , .		0
98	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
99	Floating Offshore Wind Turbines in Goto Islands, Nagasaki, Japan. Lecture Notes in Civil Engineering, 2020, , 103-113.	0.3	0
100	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