

Do Kyun Kim

List of Publications by Year in descending order

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72
papers

1,185
citations

394421

19
h-index

434195

31
g-index

74
all docs

74
docs citations

74
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced method for the development of an empirical model to predict time-dependent corrosion wastage. Corrosion Science, 2012, 63, 51-58.	6.6	79
2	Modified Paik's Mansour formula for ultimate strength calculations of ship hulls. Ships and Offshore Structures, 2013, 8, 245-260.	1.9	63
3	A technical review on ultimate strength prediction of stiffened panels in axial compression. Ocean Engineering, 2018, 170, 392-406.	4.3	60
4	A simplified method to predict fatigue damage of TTR subjected to short-term VIV using artificial neural network. Advances in Engineering Software, 2018, 126, 100-109.	3.8	59
5	An empirical formulation for predicting the ultimate strength of stiffened panels subjected to longitudinal compression. Ocean Engineering, 2017, 140, 270-280.	4.3	58
6	A time-variant corrosion wastage model for subsea gas pipelines. Ships and Offshore Structures, 2014, 9, 161-176.	1.9	56
7	Ultimate strength performance of bulk carriers with various corrosion additions. Ships and Offshore Structures, 2015, 10, 59-78.	1.9	44
8	A simplified method to predict fatigue damage of offshore riser subjected to vortex-induced vibration by adopting current index concept. Ocean Engineering, 2018, 157, 401-411.	4.3	39
9	Safety guidelines of ultimate hull girder strength for grounded container ships. Safety Science, 2013, 59, 46-54.	4.9	34
10	Ultimate strength prediction of T-bar stiffened panel under longitudinal compression by data processing: A refined empirical formulation. Ocean Engineering, 2019, 192, 106522.	4.3	33
11	Ultimate strength performance of tankers associated with industry corrosion addition practices. International Journal of Naval Architecture and Ocean Engineering, 2014, 6, 507-528.	2.3	32
12	The necessity of applying the common corrosion addition rule to container ships in terms of ultimate longitudinal strength. Ocean Engineering, 2012, 49, 43-55.	4.3	26
13	Time-dependent residual ultimate longitudinal strength - grounding damage index (R-D) diagram. Ocean Engineering, 2014, 76, 163-171.	4.3	26
14	Effect of corrosion on the ultimate strength of double hull oil tankers - Part I: stiffened panels. Structural Engineering and Mechanics, 2012, 42, 507-530.	1.0	26
15	Effect of corrosion on the ultimate strength of double hull oil tankers - Part II: hull girders. Structural Engineering and Mechanics, 2012, 42, 531-549.	1.0	26
16	Assessing the risk of ship hull collapse due to collision. Ships and Offshore Structures, 2016, 11, 335-350.	1.9	25
17	The influence of residual stress on the ultimate strength of longitudinally compressed stiffened panels. Ocean Engineering, 2021, 231, 108839.	4.3	25
18	Ultimate Compressive Strength of Stiffened Panel: An Empirical Formulation for Flat-Bar Type. Journal of Marine Science and Engineering, 2020, 8, 605.	2.6	24

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19	A systematic approach to pipe-in-pipe installation analysis. <i>Ocean Engineering</i> , 2017, 142, 478-490.	4.3	23
20	Lateral pressure effects on the progressive hull collapse behaviour of a Suezmax-class tanker under vertical bending moments. <i>Ocean Engineering</i> , 2013, 63, 112-121.	4.3	19
21	An advanced technique to predict time-dependent corrosion damage of onshore, offshore, nearshore and ship structures: Part IA= generalisation. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2020, 12, 657-666.	2.3	19
22	Ultimate Strength Performance of Suezmax Tanker Structures: Pre-CSR Versus CSR Designs. <i>Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering</i> , 2009, 151, 39.	0.1	19
23	Criterion of vehicle instability in floodwaters: past, present and future. <i>International Journal of River Basin Management</i> , 2021, 19, 1-23.	2.7	18
24	Investigation of offshore thermal power plant with carbon capture as an alternative to carbon dioxide transport. <i>Ocean Engineering</i> , 2014, 76, 152-162.	4.3	17
25	Operability of non-ice class aged ships in the Arctic Ocean-part II: Accidental limit state approach. <i>Ocean Engineering</i> , 2015, 102, 206-215.	4.3	17
26	A method for the empirical formulation of current profile. <i>Ships and Offshore Structures</i> , 2019, 14, 176-192.	1.9	17
27	An optimum design of on-bottom stability of offshore pipelines on soft clay. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2013, 5, 598-613.	2.3	16
28	Comparison of residual strength-grounding damage index diagrams for tankers produced by the ALPS/HULL ISFEM and design formula method. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2013, 5, 47-61.	2.3	15
29	A new method for strake configuration design of Steel Catenary Risers. <i>Ships and Offshore Structures</i> , 2016, 11, 385-404.	1.9	15
30	An advanced technique to predict time-dependent corrosion damage of onshore, offshore, nearshore and ship structures: Part II A= Application to the ship's ballast tank. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2020, 12, 645-656.	2.3	15
31	Condition Assessment Techniques for Aged Fixed-Type Offshore Platforms Considering Decommissioning: a Historical Review. <i>Journal of Marine Science and Application</i> , 2020, 19, 584-614.	1.7	14
32	Ultimate strength characteristics of unstiffened cylindrical shell in axial compression. <i>Ocean Engineering</i> , 2022, 243, 110253.	4.3	14
33	A probabilistic approach to assess the computational uncertainty of ultimate strength of hull girders. <i>Reliability Engineering and System Safety</i> , 2021, 213, 107688.	8.9	13
34	Is electric battery propulsion for ships truly the lifecycle energy solution for marine environmental protection as a whole?. <i>Journal of Cleaner Production</i> , 2022, 355, 131756.	9.3	13
35	Time-Dependent Ultimate Strength Performance of Corroded FPSOs. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7673-7690.	1.1	11
36	Nonlinear soil parameter effects on dynamic embedment of offshore pipeline on soft clay. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2015, 7, 227-243.	2.3	11

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37	A comparison of geometric imperfection models for collapse analysis of ship-type stiffened plated grillages. <i>Engineering Structures</i> , 2022, 250, 113480.	5.3	11
38	Operability of non-ice class aged ships in the Arctic Ocean—Part I: Ultimate limit state approach. <i>Ocean Engineering</i> , 2015, 102, 197-205.	4.3	10
39	3D Numerical Simulation of Seamless Pipe Piercing Process by Fluid-Structure Interaction Method. <i>MATEC Web of Conferences</i> , 2018, 203, 06016.	0.2	10
40	On the Crashworthiness of Steel-Plated Structures in an Arctic Environment: An Experimental and Numerical Study. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2015, 137, .	1.2	9
41	A practical diagram to determine the residual longitudinal strength of grounded ship in Northern Sea Route. <i>Ships and Offshore Structures</i> , 2020, 15, 683-700.	1.9	9
42	On the Burst Strength Capacity of an Aging Subsea Gas Pipeline. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2014, 136, .	1.2	7
43	Ultimate bending capacity of aged fixed platform by considering the effect of marine fouling. <i>Latin American Journal of Solids and Structures</i> , 2019, 16, .	1.0	7
44	An adaptable algorithm to predict the load-shortening curves of stiffened panels in compression. <i>Ships and Offshore Structures</i> , 2021, 16, 122-139.	1.9	7
45	Fatigue performance of deepwater steel catenary riser considering nonlinear soil. <i>Structural Engineering and Mechanics</i> , 2017, 61, 737-746.	1.0	7
46	Advanced procedure for estimation of pipeline embedment on soft clay seabed. <i>Structural Engineering and Mechanics</i> , 2017, 62, 381-389.	1.0	7
47	Condition assessment of raking damaged bulk carriers under vertical bending moments. <i>Structural Engineering and Mechanics</i> , 2013, 46, 629-644.	1.0	6
48	A comparison of numerical methods for damage index based residual ultimate limit state assessment of grounded ship hulls. <i>Thin-Walled Structures</i> , 2022, 172, 108854.	5.3	6
49	A Method for Analyzing Elastic Large Deflection Behavior of Perfect and Imperfect Plates With Partially Rotation-Restrained Edges. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2012, 134, .	1.2	5
50	A Useful Manufacturing Guide for Rotary Piercing Seamless Pipe by ALE Method. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 756.	2.6	5
51	Reliability Assessment for Corroded Pipelines in Series Considering Length-Scale Effects. <i>International Journal of Automotive and Mechanical Engineering</i> , 2018, 15, 5607-5624.	0.9	5
52	Structural Analysis of Deepwater Steel Catenary Riser using OrcaFlex. <i>Journal of Ocean Engineering and Technology</i> , 2015, 29, 16-27.	1.2	5
53	Fatigue damage assessment of offshore riser subjected to vortex-induced vibrations by SHEAR7. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2022, 14, 100464.	2.3	5
54	Effects of Low Temperature on ASTM A131: An Experimental and Numerical Study. , 2012, , .		4

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55	Instability Criteria for Vehicles in Motion Exposed to Flood Risks. MATEC Web of Conferences, 2018, 203, 07003.	0.2	4
56	Effects of Low Temperature on Mechanical Properties of Steel and Ultimate Hull Girder Strength of Commercial Ship. Journal of Korean Institute of Metals and Materials, 2012, 50, 427-432.	1.0	4
57	Comparison of residual strength-grounding damage index diagrams for tankers produced by the ALPS/HULL ISFEM and design formula method. International Journal of Naval Architecture and Ocean Engineering, 2013, 5, 47-61.	2.3	4
58	An Investigation into the Logistical and Economical Benefits of Using Offshore Thermal Power in a Future CCS Scheme. Energy Procedia, 2013, 37, 2997-3004.	1.8	3
59	Investigation on the Burst Strength Capacity of Aging Subsea Gas Pipeline. , 2013, , .		3
60	Reliability assessment of the vertical well system subjected to erosion and tubing failure. Ships and Offshore Structures, 2021, 16, 127-134.	1.9	3
61	Ultimate strength performance of Northern sea going non-ice class commercial ships. Structural Engineering and Mechanics, 2014, 52, 613-632.	1.0	3
62	A useful guide of effective mesh-size decision in predicting the ultimate strength of flat- and curved plates in compression. Journal of Ocean Engineering and Science, 2023, 8, 401-417.	4.3	3
63	Effect of bed vicinity on vortex shedding and force coefficients of fluid flow on an offshore pipeline. Journal of Marine Science and Application, 2017, 16, 81-86.	1.7	2
64	Simplified Technique for Predicting Offshore Pipeline Expansion. Journal of Marine Science and Application, 2018, 17, 68-78.	1.7	1
65	Reefing Viability Index for Rigs-to-Reefs (R2R) in Malaysia. Scientific World Journal, The, 2020, 2020, 1-13.	2.1	1
66	Directional spreading resolution from point measurements for mixed seas and sea states with frequency dependent spreading. Ocean Engineering, 2021, 229, 108933.	4.3	1
67	Fatigue performance of deepwater SCR under short-term VIV considering various S-N curves. Structural Engineering and Mechanics, 2015, 53, 881-896.	1.0	1
68	An empirical formula to assess ultimate strength of initially deflected plate: Part 2 = combined longitudinal compression and lateral pressure. Ocean Engineering, 2022, 252, 111112.	4.3	1
69	Study on cyclic plastic behaviour of sandwich pipelines subjected to cyclic thermo-mechanical loads. Ocean Engineering, 2022, 257, 111622.	4.3	1
70	Development of a Relationship Between Residual Ultimate Longitudinal Strength Versus Grounding Damage Index Diagram for Container Ships. , 2012, , .		0
71	Structural Reliability Analysis Using Quadratic Polynomial Response Surface and Finite Element in MATLAB. , 2016, , .		0
72	An empirical formula to assess ultimate strength of initially deflected plate: Part 1 = propose the general shape and application to longitudinal compression. Ocean Engineering, 2022, 252, 111151.	4.3	0