

# Jung Kwan Seo

## List of Publications by Year in descending order

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70  
papers

1,001  
citations

394421

19  
h-index

477307

29  
g-index

70  
all docs

70  
docs citations

70  
times ranked

517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative assessment of hydrocarbon explosion and fire risks in offshore installations. <i>Marine Structures</i> , 2011, 24, 73-96.	3.8	80
2	Methods for ultimate limit state assessment of ships and ship-shaped offshore structures: Part III hull girders. <i>Ocean Engineering</i> , 2008, 35, 281-286.	4.3	67
3	Methods for ultimate limit state assessment of ships and ship-shaped offshore structures: Part I—Unstiffened plates. <i>Ocean Engineering</i> , 2008, 35, 261-270.	4.3	56
4	Nonlinear finite element method models for ultimate strength analysis of steel stiffened-plate structures under combined biaxial compression and lateral pressure actions—Part I: Plate elements. <i>Thin-Walled Structures</i> , 2009, 47, 1008-1017.	5.3	56
5	Assessment of dropped object risk on corroded subsea pipeline. <i>Ocean Engineering</i> , 2015, 106, 329-340.	4.3	52
6	A risk-based inspection planning method for corroded subsea pipelines. <i>Ocean Engineering</i> , 2015, 109, 539-552.	4.3	36
7	Probabilistic approach for collision risk analysis of powered vessel with offshore platforms. <i>Ocean Engineering</i> , 2018, 151, 206-221.	4.3	36
8	A numerical study on water wetting associated with the internal corrosion of oil pipelines. <i>Ocean Engineering</i> , 2016, 122, 105-117.	4.3	34
9	Burst strength behaviour of an aging subsea gas pipeline elbow in different external and internal corrosion-damaged positions. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2015, 7, 435-451.	2.3	32
10	Numerical modelling of two-phase oil-water flow patterns in a subsea pipeline. <i>Ocean Engineering</i> , 2016, 115, 135-148.	4.3	30
11	A method for progressive structural crashworthiness analysis under collisions and grounding. <i>Thin-Walled Structures</i> , 2007, 45, 15-23.	5.3	29
12	The necessity of applying the common corrosion addition rule to container ships in terms of ultimate longitudinal strength. <i>Ocean Engineering</i> , 2012, 49, 43-55.	4.3	26
13	Time-dependent residual ultimate longitudinal strength - grounding damage index (R-D) diagram. <i>Ocean Engineering</i> , 2014, 76, 163-171.	4.3	26
14	Assessing the risk of ship hull collapse due to collision. <i>Ships and Offshore Structures</i> , 2016, 11, 335-350.	1.9	25
15	A methodology for determining efficient gas detector locations on offshore installations. <i>Ships and Offshore Structures</i> , 2013, 8, 524-535.	1.9	24
16	Numerical study of erosion in critical components of subsea pipeline: tees vs bends. <i>Ships and Offshore Structures</i> , 2017, 12, 233-243.	1.9	24
17	Load characteristics of steel and concrete tubular members under jet fire: An experimental and numerical study. <i>Ocean Engineering</i> , 2010, 37, 1159-1168.	4.3	21
18	Nonlinear structural behaviour and design formulae for calculating the ultimate strength of stiffened curved plates under axial compression. <i>Thin-Walled Structures</i> , 2016, 107, 1-17.	5.3	21

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19	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
20	Rapid hull collapse strength calculations of double hull oil tankers after collisions. <i>Ships and Offshore Structures</i> , 2017, 12, 624-639.	1.9	18
21	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
22	A review of the integrity management of subsea production systems: inspection and monitoring methods. <i>Ships and Offshore Structures</i> , 2019, 14, 789-803.	1.9	16
23	Plastic bending behaviour and section moment capacities of mono-symmetric LiteSteel beams with web openings. <i>Thin-Walled Structures</i> , 2011, 49, 513-522.	5.3	15
24	Strength assessment of stiffened blast walls in offshore installations under explosions. <i>Ships and Offshore Structures</i> , 2016, 11, 551-560.	1.9	14
25	Member moment capacities of mono-symmetric LiteSteel Beam floor joists with web openings. <i>Journal of Constructional Steel Research</i> , 2012, 70, 153-166.	3.9	13
26	An efficient design methodology for subsea manifold piping systems based on parametric studies. <i>Ocean Engineering</i> , 2014, 84, 273-282.	4.3	13
27	A method for determining fire accidental loads and its application to thermal response analysis for optimal design of offshore thin-walled structures. <i>Fire Safety Journal</i> , 2017, 92, 107-121.	3.1	13
28	Idealized structural unit method and its application to progressive hull girder collapse analysis of ships. <i>Ships and Offshore Structures</i> , 2006, 1, 235-247.	1.9	11
29	Numerical method for predicting the elastic lateral distortional buckling moment of a mono-symmetric beam with web openings. <i>Thin-Walled Structures</i> , 2011, 49, 713-723.	5.3	11
30	A study on fire design accidental loads for aluminum safety helidecks. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2016, 8, 519-529.	2.3	11
31	Operability of non-ice class aged ships in the Arctic Oceanâ€”Part I: Ultimate limit state approach. <i>Ocean Engineering</i> , 2015, 102, 197-205.	4.3	10
32	Nonlinear structural response in jet fire in association with the interaction between fire loads and time-variant geometry and material properties. <i>Ocean Engineering</i> , 2017, 144, 118-134.	4.3	9
33	Numerical investigation and development of design formula for cylindrically curved plates on ships and offshore structures. <i>Thin-Walled Structures</i> , 2018, 132, 93-110.	5.3	9
34	Methodology for collision-frequency analysis of wind-turbine installation vessels. <i>Ships and Offshore Structures</i> , 2021, 16, 423-439.	1.9	9
35	Condition assessment of damaged elbow in subsea pipelines. <i>Ships and Offshore Structures</i> , 2017, 12, 135-151.	1.9	8
36	A study on collision strength assessment of a jack-up rig with attendant vessel. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2020, 12, 241-257.	2.3	8

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37	Explosion Characteristics of Hydrogen Gas in Varying Ship Ventilation Tunnel Geometries: An Experimental Study. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 532.	2.6	8
38	Validation of the equivalent plate thickness approach for ultimate strength analysis of stiffened panels with non-uniform plate thickness. <i>Thin-Walled Structures</i> , 2011, 49, 753-761.	5.3	7
39	Efficient water deluge nozzles arrangement on offshore installations for the suppression of pool fires. <i>Ocean Engineering</i> , 2018, 167, 293-309.	4.3	7
40	Numerical Investigation of Residual Strength of Steel Stiffened Panel Exposed to Hydrocarbon Fire. <i>Journal of Ocean Engineering and Technology</i> , 2021, 35, 203-215.	1.2	7
41	Methods for determining the optimal arrangement of water deluge systems on offshore installations. <i>Ocean Engineering</i> , 2016, 114, 236-249.	4.3	6
42	Experimental assessment of the structural behaviour of aluminium helideck structures under static/impact loads. <i>Ships and Offshore Structures</i> , 2018, 13, 348-363.	1.9	6
43	Numerical Validation of the Two-Way Fluid-Structure Interaction Method for Non-Linear Structural Analysis under Fire Conditions. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 400.	2.6	6
44	Proposed formulas for evaluation of the equivalent material properties of a multiholed structure. <i>Ocean Engineering</i> , 2016, 121, 312-322.	4.3	5
45	Effects of the structural strength of fire protection insulation systems in offshore installations. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2021, 13, 493-510.	2.3	5
46	Effects of Low Temperature on ASTM A131: An Experimental and Numerical Study. , 2012, , .		4
47	Welding distortion design formulae of thin-plate panel structure during the assembly process. <i>Ships and Offshore Structures</i> , 2018, 13, 364-377.	1.9	4
48	Welding Distortion Characteristics of Door Openings According to Changing Shape of Stiffener. <i>Journal of Ocean Engineering and Technology</i> , 2019, 33, 153-160.	1.2	4
49	Thermal-Structural Characteristics of Multi-Layer Vacuum-Insulated Pipe for the Transfer of Cryogenic Liquid Hydrogen. <i>Metals</i> , 2022, 12, 549.	2.3	4
50	Investigation on the Burst Strength Capacity of Aging Subsea Gas Pipeline. , 2013, , .		3
51	Modeling of Two-Phase Oil/Water Flow in Horizontal Pipeline Using CFD Technique. , 2013, , .		3
52	A New Method for Structural Assessment of Topside Structure Subjected to Hydrocarbon Explosions. <i>Procedia Engineering</i> , 2017, 173, 479-486.	1.2	3
53	Investigation of the Structural Strength of Existing Blast Walls in Well-Test Areas on Drillships. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 583.	2.6	3
54	A numerical and experimental approach for optimal structural section design of offshore aluminium helidecks. <i>Structural Engineering and Mechanics</i> , 2016, 59, 993-1017.	1.0	3

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55	Methods for Nonlinear Structural Response Analysis of Offshore Structures with Passive Fire Protection under Fires. <i>Journal of Ocean Engineering and Technology</i> , 2014, 28, 294-305.	1.2	3
56	Development of a unified formula for evaluating the safe working loads of ship block support structures. <i>Journal of Advanced Marine Engineering and Technology</i> , 2022, 46, 107-114.	0.4	3
57	Experimental study of the reduction of high temperatures and radiation using heat shields associated with flare towers of offshore oil and gas platforms. <i>Ships and Offshore Structures</i> , 2014, 9, 540-549.	1.9	2
58	Residual stresses distribution in long seam-welded offshore catenary riser of high-manganese steel. <i>Ships and Offshore Structures</i> , 2020, 15, 325-339.	1.9	2
59	Development of design factor predicting the ultimate strength for wide spacing in container curved bilge structures. <i>Journal of Marine Science and Technology</i> , 2019, 24, 526-542.	2.9	1
60	Method for Preventing Asphyxiation Accidents by a CO <sub>2</sub> Extinguishing System on a Ship. <i>Fire Science and Engineering</i> , 2015, 29, 57-64.	0.4	1
61	Estimation of Buckling and Ultimate Collapse Behaviour of Stiffened Curved Plates under Compressive Load. <i>Journal of Ocean Engineering and Technology</i> , 2020, 34, 37-45.	1.2	1
62	Strength Characteristics of Passive Fire Protection Material Applied Structural Members on Fire Load. <i>Journal of the Society of Naval Architects of Korea</i> , 2022, 59, 29-38.	0.5	1
63	Method for determining the design load of an aluminium handrail on an offshore platform. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2021, 13, 511-525.	2.3	0
64	Serviceability Assessment of Corroded Subsea Crude Oil Pipelines. <i>Journal of the Society of Naval Architects of Korea</i> , 2015, 52, 153-160.	0.5	0
65	Effects of Reduction Groove Angle on Strength Characteristics of FCAW Weldment. <i>Journal of the Society of Naval Architects of Korea</i> , 2016, 53, 473-481.	0.5	0
66	Applicability of CO <sub>2</sub> Extinguishing System for Ships. <i>Journal of the Society of Naval Architects of Korea</i> , 2017, 54, 294-300.	0.5	0
67	Probabilistic Risk Analysis of Dropped Objects for Corroded Subsea Pipelines. <i>Journal of the Society of Naval Architects of Korea</i> , 2018, 55, 93-102.	0.5	0
68	A Research on the Verification Test Procedure for Quantitative Explosion Risk Assessment and Management of Offshore Installations. <i>Journal of the Society of Naval Architects of Korea</i> , 2018, 55, 215-221.	0.5	0
69	A Review of IOSS Design Standardization Technology for Aluminum Alloy Handrail of Offshore Platform. <i>Journal of Ocean Engineering and Technology</i> , 2020, 34, 208-216.	1.2	0
70	Torsional Strength of CFRP Material for Application of Ship Shaft System. <i>Journal of the Society of Naval Architects of Korea</i> , 2021, 58, 431-439.	0.5	0