

Jung Min Sohn

List of Publications by Year in descending order

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papers

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citations

516710

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49
all docs

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docs citations

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times ranked

112
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of the rebounding of a striking ship on structural crashworthiness during ship-ship collision. <i>Thin-Walled Structures</i> , 2017, 115, 225-239.	5.3	51
2	Numerical Simulation for the Collision Between Side Structure and Level Ice in Event of Side Impact Scenario. <i>Latin American Journal of Solids and Structures</i> , 2016, 13, 2991-3004.	1.0	30
3	Tensile analysis and assessment of carbon and alloy steels using FE approach as an idealization of material fractures under collision and grounding. <i>Curved and Layered Structures</i> , 2020, 7, 188-198.	1.3	28
4	Analysis of structural behavior during collision event accounting for bow and side structure interaction. <i>Theoretical and Applied Mechanics Letters</i> , 2017, 7, 6-12.	2.8	26
5	Investigation of structural performance subjected to impact loading using finite element approach: case of ship-container collision. <i>Curved and Layered Structures</i> , 2020, 7, 17-28.	1.3	25
6	Energy behavior on side structure in event of ship collision subjected to external parameters. <i>Heliyon</i> , 2016, 2, e00192.	3.2	21
7	Simulation of the Behavior of a Ship Hull under Grounding: Effect of Applied Element Size on Structural Crashworthiness. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 270.	2.6	21
8	Nonlinear analysis of inter-island RoRo under impact: effects of selected collision parameters on the crashworthy double-side structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	20
9	Investigation on structural component behaviours of double bottom arrangement under grounding accidents. <i>Theoretical and Applied Mechanics Letters</i> , 2019, 9, 50-59.	2.8	20
10	The Effectiveness of Thin-Walled Hull Structures Against Collision Impact. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1345-1360.	1.0	19
11	Crashworthiness assessment of thin-walled double bottom tanker: A variety of ship grounding incidents. <i>Theoretical and Applied Mechanics Letters</i> , 2019, 9, 320-327.	2.8	19
12	Analysis of Structural Crashworthiness and Estimating Safety Limit Accounting for Ship Collisions on Strait Territory. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1594-1613.	1.0	18
13	A practical method to determine the dynamic fracture strain for the nonlinear finite element analysis of structural crashworthiness in ship-ship collisions. <i>Ships and Offshore Structures</i> , 2018, 13, 412-422.	1.9	18
14	Experimental study on ultimate strength of steel-welded ring-stiffened conical shell under external hydrostatic pressure. <i>Marine Structures</i> , 2019, 67, 102634.	3.8	18
15	Cavitation Prediction of Ship Propeller Based on Temperature and Fluid Properties of Water. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 465.	2.6	18
16	Comparing Structural Casualties of the Ro-Ro Vessel Using Straight and Oblique Collision Incidents on the Car Deck. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 183.	2.6	17
17	Nonlinear dynamic behaviors of outer shell and upper deck structures subjected to impact loading in maritime environment. <i>Curved and Layered Structures</i> , 2019, 6, 146-160.	1.3	14
18	CFD implementation to mitigate the LNG leakage consequences: A review of explosion accident calculation on LNG-fueled ships. <i>Procedia Structural Integrity</i> , 2022, 41, 343-350.	0.8	12

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19	Rapid prediction of damage on a struck ship accounting for side impact scenario models. Open Engineering, 2017, 7, 91-99.	1.6	11
20	Structural Analysis of the Double Bottom Structure During Ship Grounding by Finite Element Approach. Latin American Journal of Solids and Structures, 2017, 14, 1106-1123.	1.0	11
21	Performance assessment on a variety of double side structure during collision interaction with other ship. Curved and Layered Structures, 2017, 4, 255-271.	1.3	10
22	CFD-based simulation of accidental fuel release from LNG-fuelled ships. Ships and Offshore Structures, 2020, , 1-20.	1.9	10
23	Ultimate Strength Assessment of Steel-Welded Hemispheres under External Hydrostatic Pressure. Journal of Marine Science and Application, 2020, 19, 615-633.	1.7	10
24	Effect of the selected parameters in idealizing material failures under tensile loads: Benchmarks for damage analysis on thin-walled structures. Curved and Layered Structures, 2022, 9, 258-285.	1.3	10
25	Experimental investigations on the implosion characteristics of thin cylindrical aluminium-alloy tubes. International Journal of Solids and Structures, 2020, 200-201, 64-82.	2.7	9
26	Implosion tests of aluminium-alloy ring-stiffened cylinders subjected to external hydrostatic pressure. Marine Structures, 2021, 78, 102980.	3.8	9
27	On the failure behaviour to striking bow penetration of impacted marine-steel structures. Curved and Layered Structures, 2018, 5, 68-79.	1.3	8
28	The effect of multi-stage modification on the performance of Savonius water turbines under the horizontal axis condition. Open Engineering, 2020, 10, 793-803.	1.6	8
29	Crashworthiness performance of stiffened bottom tank structure subjected to impact loading conditions: Ship-rock interaction. Curved and Layered Structures, 2019, 6, 245-258.	1.3	7
30	Layout optimization for safety evaluation on LNG-fueled ship under an accidental fuel release using mixed-integer nonlinear programming. International Journal of Naval Architecture and Ocean Engineering, 2022, 14, 100443.	2.3	7
31	Finite Element Analysis of Different Artificial Hip Stem Designs Based on Fenestration under Static Loading. Procedia Structural Integrity, 2020, 27, 101-108.	0.8	6
32	Procedure for determining design accidental loads in liquefied-natural-gas-fuelled ships under explosion using a computational-fluid-dynamics-based simulation approach. Ships and Offshore Structures, 2022, 17, 2254-2271.	1.9	6
33	Investigation on the Structural Damage of a Double-Hull Ship, Part II –“ Grounding Impact. Procedia Structural Integrity, 2017, 5, 943-950.	0.8	5
34	Crashworthiness characteristic of longitudinal deck structures against identified accidental action in marine environment: a study case of ship’s bow collision. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	5
35	Development of Numerical Modelling Techniques for Composite Cylindrical Structures under External Pressure. Journal of Marine Science and Engineering, 2022, 10, 466.	2.6	5
36	Mechanical behavior of thin-walled steel under hard contact with rigid seabed rock: Theoretical contact approach and nonlinear FE calculation. Journal of the Mechanical Behavior of Materials, 2021, 30, 156-170.	1.8	4

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37	Gas Dispersion Analysis on the Open Deck Fuel Storage Configuration of the LNG-Fueled Ship. Lecture Notes in Mechanical Engineering, 2020, , 109-118.	0.4	4
38	Structural assessment of a 500-cbm liquefied natural gas bunker ship during bunkering and marine operation under collision accidents. Ships and Offshore Structures, 2022, 17, 2379-2395.	1.9	3
39	Behavior Prediction of Ship Structure due to Side Impact Scenario by Dynamic-Nonlinear Finite Element Analysis. Applied Mechanics and Materials, 0, 862, 253-258.	0.2	2
40	Progressive structural failure of the RoRo side hull during accidental powered-bow collisions. AIP Conference Proceedings, 2018, , .	0.4	2
41	Dynamic structural response characteristics of new concept blast walls under hydrocarbon explosions. Latin American Journal of Solids and Structures, 2019, 16, .	1.0	2
42	Residual stresses distribution in long seam-welded offshore catenary riser of high-manganese steel. Ships and Offshore Structures, 2020, 15, 325-339.	1.9	2
43	Effects of Geometrical Variations on the Performance of Hull Plate Structures under Blast Load: A Study using Nonlinear FEA. Procedia Structural Integrity, 2022, 41, 282-289.	0.8	2
44	Optimisation of the design of a steel-welded pressure hull structure based on interactive nonlinear collapse strength analyses. Ships and Offshore Structures, 2020, , 1-16.	1.9	1
45	Structural Assessment Review of Type-C Independent Tank in LNG Bunkering Ship. Lecture Notes in Mechanical Engineering, 2020, , 97-108.	0.4	1
46	Experimental and Numerical Studies on Fluid-Structure Interaction for Underwater Drop of a Stone-Breaking Crusher. Journal of Marine Science and Engineering, 2022, 10, 30.	2.6	1
47	Finite element analysis for estimating steel structure responses under a variety of marine-collision actions. International Journal of Earthquake and Impact Engineering, 2018, 2, 248.	0.3	0
48	Investigasi Dampak Insiden Tubrukan Terhadap Respon Struktur Kapal Penumpang Antar Pulau. Kapal, 2018, 15, 62-67.	0.2	0
49	Predicting the residual fatigue life of a cargo hull tank using a deep-learning technique. Journal of International Maritime Safety Environmental Affairs and Shipping, 2020, 4, 84-92.	0.8	0