

Jürgen Amdahl

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4152583/publications.pdf>

Version: 2024-02-01

78
papers

1,931
citations

257450

24
h-index

265206

42
g-index

79
all docs

79
docs citations

79
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal analysis of marine structural steel EH36 subject to non-spreading cryogenic spills. Part I: experimental study. <i>Ships and Offshore Structures</i> , 2022, 17, 1863-1871.	1.9	4
2	Thermal analysis of marine structural steel EH36 subject to non-spreading cryogenic spills. Part II: finite element analysis. <i>Ships and Offshore Structures</i> , 2022, 17, 2176-2185.	1.9	1
3	Development of ductile fracture modelling approach in ship impact simulations. <i>Ocean Engineering</i> , 2022, 252, 111173.	4.3	4
4	Pressure-dependent plasticity models with convex yield loci for explicit ice crushing simulations. <i>Marine Structures</i> , 2022, 84, 103233.	3.8	3
5	Glacial ice impacts: Part II: Damage assessment and ice-structure interactions in accidental limit states (ALS). <i>Marine Structures</i> , 2021, 75, 102889.	3.8	11
6	A numerical solver for coupled dynamic simulation of glacial ice impacts considering hydrodynamic-ice-structure interaction. <i>Ocean Engineering</i> , 2021, 226, 108827.	4.3	10
7	Numerical and analytical studies of ship deckhouse impact with steel and RC bridge girders. <i>Engineering Structures</i> , 2021, 234, 111868.	5.3	11
8	Making sense of speed effects on ice crushing pressure-area relationships in IACS ice-strengthening rules for ships. <i>Ocean Engineering</i> , 2021, 230, 109059.	4.3	0
9	Design of steel bridge girders against ship forecastle collisions. <i>Engineering Structures</i> , 2019, 196, 109277.	5.3	16
10	Numerical analysis of local and global responses of an offshore fish farm subjected to ship impacts. <i>Ocean Engineering</i> , 2019, 194, 106653.	4.3	22
11	Local and Global Responses of a Floating Bridge Under Ship-Girder Collisions. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	1.2	13
12	A simplified analytical method for predictions of ship deckhouse collision loads on steel bridge girders. <i>Ships and Offshore Structures</i> , 2019, 14, 121-134.	1.9	4
13	Numerical investigations of a prestressed pontoon wall subjected to ship collision loads. <i>Ocean Engineering</i> , 2019, 172, 234-244.	4.3	18
14	Discussion of assumptions behind the external dynamic models in ship collisions and groundings. <i>Ships and Offshore Structures</i> , 2019, 14, 45-62.	1.9	7
15	On multi-planar impact mechanics in ship collisions. <i>Marine Structures</i> , 2019, 63, 364-383.	3.8	10
16	Assessment of ship impact risk to offshore structures - New NORSOK N-003 guidelines. <i>Marine Structures</i> , 2019, 63, 480-494.	3.8	12
17	A review of structural responses and design of offshore tubular structures subjected to ship impacts. <i>Ocean Engineering</i> , 2018, 154, 177-203.	4.3	36
18	Large inelastic deformation resistance of stiffened panels subjected to lateral loading. <i>Marine Structures</i> , 2018, 59, 342-367.	3.8	17

#	ARTICLE	IF	CITATIONS
19	Long-term fatigue damage sensitivity to wave directionality in extra-large monopile foundations. Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment, 2018, 232, 37-49.	0.5	3
20	MARSTRUCT benchmark study on nonlinear FE simulation of an experiment of an indenter impact with a ship side-shell structure. Marine Structures, 2018, 59, 142-157.	3.8	44
21	Numerical investigations of the dynamic response of a floating bridge under environmental loadings. Ships and Offshore Structures, 2018, 13, 113-126.	1.9	25
22	Evaluation of Nonlinear Material Behavior for Offshore Structures Subjected to Accidental Actions. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	1.2	6
23	Analysis and design of offshore tubular members against ship impacts. Marine Structures, 2018, 58, 109-135.	3.8	25
24	Numerical Investigation of the Collision Damage and Residual Strength of a Floating Bridge Girder. , 2018, , .		3
25	Modelling of the ductile-brittle fracture transition in steel structures with large shell elements: A numerical study. Marine Structures, 2018, 62, 40-59.	3.8	12
26	On the sensitivity to work hardening and strain-rate effects in nonlinear FEM analysis of ship collisions. Ships and Offshore Structures, 2017, 12, 100-115.	1.9	34
27	Laboratory experiments on shared-energy collisions between freshwater ice blocks and a floating steel structure. Ships and Offshore Structures, 2017, 12, 530-544.	1.9	13
28	Dynamic responses of a floating bridge subjected to ship collision load on bridge girders. Procedia Engineering, 2017, 199, 2506-2513.	1.2	12
29	Evaluation of Nonlinear Material Behavior for Offshore Structures Subjected to Accidental Actions. , 2017, , .		1
30	Analysis of tether anchored floating suspension bridge subjected to large ship collisions. Procedia Engineering, 2017, 199, 2488-2493.	1.2	6
31	Analysis of tether anchored floating suspension bridge subjected to extreme environmental loads. Procedia Engineering, 2017, 199, 3033-3038.	1.2	3
32	Assessment to Iceberg Impact Loads to Fixed Structures in Multi-Planar Space. , 2017, , .		0
33	Hydro-Elastic Contributions to Fatigue Damage on a Large Monopile. Energy Procedia, 2016, 94, 102-114.	1.8	8
34	Reduced Order Model for Control Applications in Offshore Wind Turbines**This work has been carried out at the Centre for Autonomous Marine Operations and Systems at the Norwegian University of Science and Technology (NTNU AMOS). The Norwegian Research Council is acknowledged as the main sponsor of NTNU AMOS. This work was supported by the Research Council of Norway through the Centres of Excellence funding scheme, Project number 223254 - NTNU AMOS..	0.9	3
35	IFAC-PapersOnLine, 2016, 49, 386-393. Full six degrees of freedom coupled dynamic simulation of ship collision and grounding accidents. Marine Structures, 2016, 47, 1-22.	3.8	35
36	Implementation of Linear Potential-Flow Theory in the 6DOF Coupled Simulation of Ship Collision and Grounding Accidents. Journal of Ship Research, 2016, 60, 119-144.	1.1	7

#	ARTICLE	IF	CITATIONS
37	Numerical Investigation of Fluid-Ice-Structure Interaction During Collision by an Arbitrary Lagrangian Eulerian Method. , 2016, , .		1
38	Discussion of assumptions behind rule-based ice loads due to crushing. Ocean Engineering, 2016, 119, 249-261.	4.3	6
39	A comparative analysis of the fluid-structure interaction method and the constant added mass method for ice-structure collisions. Marine Structures, 2016, 49, 58-75.	3.8	23
40	A new approach for coupling external dynamics and internal mechanics in ship collisions. Marine Structures, 2016, 45, 110-132.	3.8	24
41	An Extension of the BWH Instability Criterion: Numerical Study. , 2015, , .		0
42	Dynamic amplification of drag dominated structures in irregular seas. , 2015, , .		2
43	A damage-based failure model for coarsely meshed shell structures. International Journal of Impact Engineering, 2015, 83, 59-75.	5.0	42
44	On the accuracy of fracture estimation in collision analysis of ship and offshore structures. Marine Structures, 2015, 44, 254-287.	3.8	57
45	Numerical Simulation of an Ice Beam in Four-Point Bending Using SPH. , 2014, , .		4
46	Non-Conservative Consequences of "Conservative" Assumptions in Ship-Platform Collision Analysis. , 2014, , .		0
47	Design of offshore structures against accidental ship collisions. Marine Structures, 2014, 37, 135-172.	3.8	67
48	Investigation on structural performance predictions of double-bottom tankers during shoal grounding accidents. Marine Structures, 2013, 33, 188-213.	3.8	25
49	Analysis of ship-ship collision damage accounting for bow and side deformation interaction. Marine Structures, 2013, 32, 18-48.	3.8	69
50	Rapid assessment of ship grounding over large contact surfaces. Ships and Offshore Structures, 2013, 8, 1-2.	1.9	1
51	Design and Modelling of Accidental Ship Collisions With Ice Masses at Laboratory-Scale. , 2012, , .		3
52	Rapid assessment of ship grounding over large contact surfaces. Ships and Offshore Structures, 2012, 7, 5-19.	1.9	40
53	Analytical and numerical modelling of oil spill from a side tank with collision damage. Ships and Offshore Structures, 2012, 7, 73-86.	1.9	26
54	Benchmark study on the assessment of ship damage conditions during stranding. Ships and Offshore Structures, 2012, 7, 197-213.	1.9	11

#	ARTICLE	IF	CITATIONS
55	Iceberg Shape Sensitivity in Ship Impact Assessment in View of Existing Material Models. , 2012, , .		1
56	Broad Side Ship Collision With Jacket Legs: Examination of NORSOK N-004 Analysis Procedure. , 2012, , .		5
57	Investigation on Smeared Thickness Method for Plating Stiffeners on Prediction of Grounding Character of Double Bottom Tanker Over Obstacles With Large Contact Surface. , 2012, , .		0
58	Crushing resistance of a cruciform and its application to ship collision and grounding. Ships and Offshore Structures, 2012, 7, 185-195.	1.9	27
59	An analytical model to assess a ship side during a collision. Ships and Offshore Structures, 2012, 7, 431-448.	1.9	40
60	Numerical and simplified analytical methods for analysis of the residual strength of ship double bottom. Ocean Engineering, 2012, 52, 22-34.	4.3	7
61	Plasticity based material modelling of ice and its application to shipâ€œiceberg impacts. Cold Regions Science and Technology, 2011, 65, 326-334.	3.5	82
62	Experimental investigation of oil leakage from damaged ships due to collision and grounding. Ocean Engineering, 2011, 38, 1894-1907.	4.3	29
63	Integrated numerical analysis of an iceberg collision with a foreship structure. Marine Structures, 2011, 24, 377-395.	3.8	34
64	Understanding ship-grounding events. Marine Structures, 2011, 24, 551-569.	3.8	26
65	Monitoring of ship damage condition during stranding. Marine Structures, 2011, 24, 261-274.	3.8	11
66	A new formulation of the impact mechanics of ship collisions and its application to a shipâ€œiceberg collision. Marine Structures, 2010, 23, 360-384.	3.8	46
67	A Direct Design Procedure for FPSO Side Structures Against Large Impact Loads. Journal of Offshore Mechanics and Arctic Engineering, 2009, 131, .	1.2	6
68	On the resistance to penetration of stiffened plates, Part I â€œ Experiments. International Journal of Impact Engineering, 2009, 36, 799-807.	5.0	136
69	On the resistance to penetration of stiffened plates, Part II: Numerical analysis. International Journal of Impact Engineering, 2009, 36, 875-887.	5.0	160
70	Crushing resistance of web girders in ship collision and grounding. Marine Structures, 2008, 21, 374-401.	3.8	64
71	Analytical and numerical analysis of sheet metal instability using a stress based criterion. International Journal of Solids and Structures, 2008, 45, 2042-2055.	2.7	94
72	Plastic mechanism analysis of the resistance of ship longitudinal girders in grounding and collision. Ships and Offshore Structures, 2008, 3, 159-171.	1.9	38

#	ARTICLE	IF	CITATIONS
73	On the resistance of tanker bottom structures during stranding. Marine Structures, 2007, 20, 218-237.	3.8	80
74	Plastic design of laterally patch loaded plates for ships. Marine Structures, 2007, 20, 124-142.	3.8	26
75	A semi-analytical model for global buckling and postbuckling analysis of stiffened panels. Thin-Walled Structures, 2004, 42, 701-717.	5.3	76
76	A simplified method for elastic large deflection analysis of plates and stiffened panels due to local buckling. Thin-Walled Structures, 2002, 40, 925-953.	5.3	84
77	Simplified stress resultants plasticity on a geometrically nonlinear constant stress shell element. Computers and Structures, 2001, 79, 1723-1734.	4.4	10
78	Computer simulation study of offshore collisions and analysis of ship-platform impacts. Applied Ocean Research, 1980, 2, 119-127.	4.1	9