

# Mohammad Reza Khedmati

## List of Publications by Year in descending order

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75  
papers

1,088  
citations

394421

19  
h-index

454955

30  
g-index

75  
all docs

75  
docs citations

75  
times ranked

565  
citing authors

#	ARTICLE	IF	CITATIONS
1	A detailed finite element investigation of the effects of local lateral high-velocity impacts on the ultimate strength of unstiffened steel plates subjected to uniaxial in-plane compression. <i>Marine Structures</i> , 2021, 75, 102842.	3.8	2
2	Statistical analysis of initial deflection of aluminium plating between stiffeners. <i>Thin-Walled Structures</i> , 2021, 161, 107528.	5.3	3
3	A review on ultimate strength of aluminium structural elements and systems for marine applications. <i>Ocean Engineering</i> , 2021, 232, 109153.	4.3	32
4	Progressive collapse analysis of a bulk carrier hull girder under longitudinal vertical bending moment considering cracking damage. <i>Ocean Engineering</i> , 2021, 242, 110140.	4.3	0
5	An experimental and numerical investigation of adhesive bond strength in Al-GFRP single lap and double butt lap joints due to applied longitudinal loads. <i>Ships and Offshore Structures</i> , 2020, 15, 403-416.	1.9	3
6	Progressive Collapse Analysis of an FPSO Vessel Hull Girder Under Vertical Bending Considering Different Corrosion Models. <i>Journal of Marine Science and Application</i> , 2020, 19, 674-692.	1.7	4
7	Elastic local buckling strength analysis of stiffened aluminium plates with an emphasis on the initial deflections and welding residual stresses. <i>Ships and Offshore Structures</i> , 2019, 14, 125-140.	1.9	6
8	Semi-analytical simulation of plastic collapse mechanism of cracked continuous unstiffened plates used in ship structure under in-plane longitudinal compression. <i>Thin-Walled Structures</i> , 2019, 144, 106264.	5.3	5
9	Empirical formulations for estimation of ultimate strength of cracked continuous unstiffened plates used in ship structure under in-plane longitudinal compression. <i>Engineering Failure Analysis</i> , 2019, 100, 470-484.	4.0	18
10	Experimental and theoretical analysis of air-inflated circular woven fabric deformation. <i>Journal of the Textile Institute</i> , 2019, 110, 1169-1178.	1.9	2
11	Ultimate strength of cracked ship structural elements and systems: A review. <i>Engineering Failure Analysis</i> , 2018, 89, 242-257.	4.0	16
12	Reliability-based design of stiffened plates in ship structures subject to wheel patch loading. <i>Thin-Walled Structures</i> , 2018, 127, 416-424.	5.3	8
13	Frequency domain damage detection of plate and shell structures by finite element model updating. <i>Inverse Problems in Science and Engineering</i> , 2018, 26, 100-132.	1.2	13
14	Numerical investigation on novel geometrical configuration for adhesively bonded T-joint between aluminum and sandwich panel. <i>Thin-Walled Structures</i> , 2018, 131, 122-134.	5.3	8
15	Uncertainty quantification in bending analysis of moderately thick plates with elastically restrained edges using the Chaotic Radial Basis Function. <i>Acta Mechanica</i> , 2017, 228, 2083-2105.	2.1	6
16	Damage detection by a FE model updating method using power spectral density: Numerical and experimental investigation. <i>Journal of Sound and Vibration</i> , 2017, 397, 51-76.	3.9	35
17	Stochastic analysis of thin plates on elastic foundation by combining the generalized polynomial chaos and element free Galerkin method. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 1813-1824.	1.5	8
18	Stochastic analysis of coupled heave-roll ship motion using the domain decomposition chaotic radial basis function. <i>Ocean Engineering</i> , 2017, 140, 322-333.	4.3	7

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19	Stochastic analysis of moderately thick plates using the generalized polynomial chaos and element free Galerkin method. <i>Engineering Analysis With Boundary Elements</i> , 2017, 79, 23-37.	3.7	14
20	Numerical Modeling of Corrosion Effectson Ultimate Strength of DX Tubular Joints. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 217-242.	1.0	0
21	Dynamic Response of Orthotropic Membrane Structure under Impact Load based on Multiple Scale Perturbation Method. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1490-1505.	1.0	10
22	Practical Approaches of Inducing Controlled Simulated Resin Starvation Areas into Vacuum Infusion Processed Sandwich Composites Used for Characterisation of the Surface Defects and their Outcomes. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1170-1182.	1.0	2
23	Finite Element Investigation of Performance of Composite-Steel Double Lap Adhesive Joint Under Tensile Loading. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 277-291.	1.0	3
24	Finite element model updating using strain-based power spectral density for damage detection. <i>Structural Control and Health Monitoring</i> , 2016, 23, 1314-1333.	4.0	26
25	Ultimate strength of composite shipsâ€™ hull girders in the presence of composite superstructures. <i>Thin-Walled Structures</i> , 2016, 102, 122-138.	5.3	18
26	Empirical formulations for estimation of ultimate strength of continuous aluminium stiffened plates under combined transverse compression and lateral pressure. <i>Ships and Offshore Structures</i> , 2016, 11, 258-277.	1.9	15
27	Ultimate Strength of Continuous Stiffened Aluminium Plates Under Combined Biaxial Compression and Lateral Pressure. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 1698-1720.	1.0	3
28	An experimental investigation of static load capacity of AL-GFRP adhesively bonded single lap and double butt lap joints. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 1583-1594.	1.0	18
29	Free vibration of stiffened open shells with variable radii of curvature using extended Kantorovichâ€™s Ritz method. <i>Ships and Offshore Structures</i> , 2015, 10, 94-106.	1.9	6
30	Analytical simulation of nonlinear elasticâ€™plastic average stressâ€™average strain relationships for un-corroded/both-sides randomly corroded steel plates under uniaxial compression. <i>Thin-Walled Structures</i> , 2015, 86, 132-141.	5.3	34
31	Effects of hull damage on global loads acting on a trimaran ship. <i>Ships and Offshore Structures</i> , 2015, 10, 635-652.	1.9	4
32	A numerical investigation into ultimate strength and buckling behavior of locally corroded steel tubular members. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 1063-1076.	1.0	23
33	Analysis of the flexural mode response of a novel trimaran by segmented model test. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2573-2588.	1.0	0
34	Free vibration analysis of orthotropic thin cylindrical shells with variable thickness by using spline functions. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2099-2121.	1.0	10
35	The effect of welding on the strength of aluminium stiffened plates subject to combined uniaxial compression and lateral pressure. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2014, 6, 39-59.	2.3	10
36	Residual ultimate strength of cracked steel unstiffened and stiffened plates under longitudinal compression. <i>Thin-Walled Structures</i> , 2014, 84, 378-392.	5.3	41

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37	Free vibration analysis of open thin deep shells with variable radii of curvature. <i>Meccanica</i> , 2014, 49, 1385-1405.	2.0	6
38	The effects of geometrical imperfections on the ultimate strength of aluminium stiffened plates subject to combined uniaxial compression and lateral pressure. <i>Ships and Offshore Structures</i> , 2014, 9, 88-109.	1.9	27
39	Nonlinear finite element modelling and progressive collapse analysis of a product carrier under longitudinal bending. <i>Applied Ocean Research</i> , 2014, 48, 80-102.	4.1	7
40	A numerical investigation into the effects of slamming impulsive loads on the elastic-plastic response of imperfect stiffened aluminium plates. <i>Thin-Walled Structures</i> , 2014, 76, 118-144.	5.3	20
41	Parametric study on average stress-average strain curve of composite stiffened plates using progressive failure method. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 2203-2226.	1.0	7
42	Vibration analysis of nonhomogeneous moderately thick plates with point supports resting on Pasternak elastic foundation using element free Galerkin method. <i>Engineering Analysis With Boundary Elements</i> , 2013, 37, 1212-1238.	3.7	26
43	Assessment of Fatigue Reliability for Jacket-Type Offshore Platforms Considering Dynamic Behavior. , 2013, , .		2
44	Ultimate Strength Characteristics of a Ship's Deck Stiffened Plate Structure in the Presence of Camber Parabolic Curvature. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2013, 135, .	1.2	1
45	Free vibration and dynamic response analysis of stiffened parabolic shells using equivalent orthotropic shell parameters. <i>Latin American Journal of Solids and Structures</i> , 2013, 10, 747-766.	1.0	7
46	Stacking sequence optimisation of composite panels subjected to slamming impact loads using a genetic algorithm. <i>Latin American Journal of Solids and Structures</i> , 2013, 10, 1043-1060.	1.0	8
47	Application of artificial neural networks to the evaluation of the ultimate strength of uniaxially compressed welded stiffened aluminium plates. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2012, 226, 197-213.	0.5	1
48	A Numerical Investigation Into Ultimate Strength and Buckling Behavior of Locally Corroded Steel Tubular Members. , 2012, , .		2
49	Vibration analysis of stiffened plates using finite element method. <i>Latin American Journal of Solids and Structures</i> , 2012, 9, 1-20.	1.0	27
50	A computational investigation of the effects of both-sides general corrosion on the buckling/plastic collapse behaviour and strength of stiffened plates. <i>Journal of Marine Science and Technology</i> , 2012, 17, 68-93.	2.9	4
51	An effective thickness proposal for strength evaluation of one-side pitted steel plates under uniaxial compression. <i>Latin American Journal of Solids and Structures</i> , 2012, 9, 475-496.	1.0	11
52	A comparative computational investigation on the effects of randomly distributed general corrosion on the post-buckling behaviour of uniaxially loaded plates. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 767-783.	1.5	12
53	A numerical investigation into strength and deformation characteristics of preloaded tubular members under lateral impact loads. <i>Marine Structures</i> , 2012, 25, 33-57.	3.8	28
54	An extension of coupled beam method and its application to study ship's hull-superstructure interaction problems. <i>Latin American Journal of Solids and Structures</i> , 2011, 8, 265-290.	1.0	6

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55	Strength of steel plates with both-sides randomly distributed with corrosion wastage under uniaxial compression. <i>Thin-Walled Structures</i> , 2011, 49, 325-342.	5.3	45
56	A Computational Investigation on the Effects of Hull Geometry and Stiffeners on the Axial Crushing Strength and Behavior of Aluminum High Speed Crafts. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2011, 133, .	1.2	0
57	An effective proposal for strength evaluation of steel plates randomly corroded on both sides under uniaxial compression. <i>Steel and Composite Structures</i> , 2011, 11, 183-205.	1.3	5
58	Post-buckling behaviour and strength of multi-stiffened aluminium panels under combined axial compression and lateral pressure. <i>Marine Structures</i> , 2010, 23, 39-66.	3.8	26
59	Empirical formulations for estimation of ultimate strength of continuous stiffened aluminium plates under combined in-plane compression and lateral pressure. <i>Thin-Walled Structures</i> , 2010, 48, 274-289.	5.3	36
60	A numerical investigation into the effects of parabolic curvature on the buckling strength and behaviour of stiffened plates under in-plane compression. <i>Latin American Journal of Solids and Structures</i> , 2010, 7, 249-264.	1.0	15
61	Degradation of the compressive strength of unstiffened/stiffened steel plates due to both-sides randomly distributed corrosion wastage. <i>Latin American Journal of Solids and Structures</i> , 2010, 7, 335-367.	1.0	7
62	Crushing response of bow structure of aluminium high-speed crafts at the event of inclined collisions: numerical simulation. <i>International Journal of Crashworthiness</i> , 2010, 15, 469-479.	1.9	2
63	Sensitivity analysis of the elastic buckling of cracked plate elements under axial compression. <i>Thin-Walled Structures</i> , 2009, 47, 522-536.	5.3	35
64	A numerical assessment of the buckling/ultimate strength characteristics of stiffened aluminium plates with fixed/floating transverse frames. <i>Thin-Walled Structures</i> , 2009, 47, 1373-1386.	5.3	17
65	Sensitivity analysis on the elastic buckling and ultimate strength of continuous stiffened aluminium plates under combined in-plane compression and lateral pressure. <i>Thin-Walled Structures</i> , 2009, 47, 1232-1245.	5.3	32
66	Ultimate strength and ductility characteristics of intermittently welded stiffened plates. <i>Journal of Constructional Steel Research</i> , 2009, 65, 599-610.	3.9	5
67	A Comparative Numerical Study on the Bending Response of Aluminium Stiffened Plates With Fixed/Floating Frames. , 2008, , .		0
68	Ultimate Strength and Ductility Characteristics of Intermittently Welded Stiffened Plates Under In-Plane Axial Compression. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2008, 130, .	1.2	1
69	A comparative study on three different construction methods of stiffened plates-strength behaviour and ductility characteristics. <i>Revista Escola De Minas</i> , 2007, 60, 365-379.	0.1	2
70	Numerical study on the permissible gap of intermittent fillet welds of longitudinally stiffened plates under in plane axial compression. <i>Journal of Constructional Steel Research</i> , 2007, 63, 1415-1428.	3.9	6
71	Nonlinear Elastoplastic Behaviour of Intermittently Welded Stiffened Plates Under Inplane Compression. , 2006, , 853.		1
72	Numerical and experimental investigations on the compression behaviour of stiffened plates. <i>Journal of Constructional Steel Research</i> , 2006, 62, 1087-1100.	3.9	68

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73	Estimation of ultimate strength of continuous stiffened panel under combined transverse thrust and lateral pressure Part 2: Continuous stiffened panel. Marine Structures, 2005, 18, 411-427.	3.8	95
74	Estimation of ultimate strength of continuous stiffened panel under combined transverse thrust and lateral pressure Part 1: Continuous plate. Marine Structures, 2005, 18, 383-410.	3.8	66
75	Progressive Collapse Analysis of a Ship' s Hull Girder under Longitudinal Bending considering Local Pressure Loads. Journal of the Society of Naval Architects of Japan, 2000, 2000, 507-515.	0.2	9