

Wenxian Tang

List of Publications by Year in descending order

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50
papers

846
citations

516561

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552653

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g-index

50
all docs

50
docs citations

50
times ranked

222
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical and experimental study of the free hydroforming of egg-shaped shell. Ships and Offshore Structures, 2022, 17, 257-267.	0.9	19
2	Hydroforming and buckling of an egg-shaped shell based on a petal-shaped preform. Ocean Engineering, 2022, 250, 111057.	1.9	14
3	Buckling of externally pressurized torispheres with uniform and stepwise thickness. Thin-Walled Structures, 2022, 173, 109045.	2.7	5
4	Non-linear collapse behavior of externally pressurized resin toroidal and cylindrical shells: numerical and experimental studies. Ships and Offshore Structures, 2021, 16, 529-545.	0.9	9
5	Free bulging of thin-walled cylinders closed by two heavy plates. Ocean Engineering, 2021, 223, 108646.	1.9	12
6	Buckling performance of egg-shaped shells fabricated through free hydroforming. International Journal of Pressure Vessels and Piping, 2021, 193, 104435.	1.2	19
7	Buckling properties of bulged barrels under external pressure. Thin-Walled Structures, 2021, 168, 108226.	2.7	20
8	Buckling of segmented toroids under external pressure. Ocean Engineering, 2021, 239, 109921.	1.9	16
9	Buckling of Multiple Intersecting Spherical Shells Under Uniform External Pressure. Journal of Marine Science and Application, 2020, 19, 634-641.	0.7	4
10	Interaction of surface cracks on an egg-shaped pressure shell. Archive of Applied Mechanics, 2020, 90, 2589-2596.	1.2	5
11	Study on dented hemispheres under external hydrostatic pressure. Marine Structures, 2020, 74, 102819.	1.6	13
12	Buckling Performances of Spherical Caps Under Uniform External Pressure. Journal of Marine Science and Application, 2020, 19, 96-100.	0.7	5
13	Experimental and numerical buckling analysis of toroidal shell segments under uniform external pressure. Thin-Walled Structures, 2020, 150, 106689.	2.7	15
14	Buckling of Externally Pressurized Toroidal Shell With Stiffened Ribs. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.4	2
15	Buckling of externally pressurized corroded spherical shells with wall-thickness reduction in local region. International Journal of Pressure Vessels and Piping, 2020, 188, 104231.	1.2	4
16	Collapse performance of externally pressurized resin egg-shaped shells with corrosion thinning. International Journal of Pressure Vessels and Piping, 2019, 177, 103993.	1.2	15
17	Experimental and numerical collapse properties of externally pressurized egg-shaped shells under local geometrical imperfections. International Journal of Pressure Vessels and Piping, 2019, 175, 103893.	1.2	16
18	Buckling of circumferentially corrugated cylindrical shells under uniform external pressure. Ships and Offshore Structures, 2019, 14, 879-889.	0.9	27

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19	Buckling of imperfect spherical caps with fixed boundary under uniform external pressure. <i>Marine Structures</i> , 2019, 65, 1-11.	1.6	18
20	Buckling of externally pressurised spherical caps with wall-thickness reduction. <i>Thin-Walled Structures</i> , 2019, 136, 129-137.	2.7	14
21	Buckling of an egg-shaped shell with varying wall thickness under uniform external pressure. <i>Ships and Offshore Structures</i> , 2019, 14, 559-569.	0.9	10
22	Experimental analysis on particle fluctuation velocity in a horizontal air–solid two-phase pipe flow having a dune model. <i>Particulate Science and Technology</i> , 2019, 37, 182-189.	1.1	9
23	Buckling of longan-shaped shells under external pressure. <i>Marine Structures</i> , 2018, 60, 218-225.	1.6	20
24	Wear Performance of Phenolic Composites: A Comparison of Experimental and Theoretical Data. <i>Tribology Transactions</i> , 2018, 61, 785-792.	1.1	0
25	Effect of thickness on the buckling strength of egg-shaped pressure hulls. <i>Ships and Offshore Structures</i> , 2018, 13, 375-384.	0.9	22
26	Buckling of externally pressurized cylindrical shell: A comparison of theoretical and experimental data. <i>Thin-Walled Structures</i> , 2018, 129, 309-316.	2.7	29
27	Linear and nonlinear elastic buckling of stereolithography resin egg-shaped shells subjected to external pressure. <i>Thin-Walled Structures</i> , 2018, 127, 516-522.	2.7	13
28	Elastic-plastic buckling of deep sea spherical pressure hulls. <i>Marine Structures</i> , 2018, 57, 38-51.	1.6	49
29	Elastic buckling of externally pressurized Cassini oval shells with various shape indices. <i>Thin-Walled Structures</i> , 2018, 122, 83-89.	2.7	31
30	Buckling of stainless steel spherical caps subjected to uniform external pressure. <i>Ships and Offshore Structures</i> , 2018, 13, 779-785.	0.9	21
31	Buckling of externally pressurised egg-shaped shells with variable and constant wall thicknesses. <i>Thin-Walled Structures</i> , 2018, 132, 111-119.	2.7	29
32	Buckling of egg-shaped shells subjected to external pressure. <i>Thin-Walled Structures</i> , 2017, 113, 122-128.	2.7	39
33	Buckling of spherical shells subjected to external pressure: A comparison of experimental and theoretical data. <i>Thin-Walled Structures</i> , 2017, 111, 58-64.	2.7	83
34	Investigation on egg-shaped pressure hulls. <i>Marine Structures</i> , 2017, 52, 50-66.	1.6	64
35	Multi-scale analysis on particle dynamics of a horizontal self-excited pneumatic conveying at the minimum pressure drop. <i>Advanced Powder Technology</i> , 2017, 28, 942-952.	2.0	11
36	Effects of injection pressure on cavitation and spray in marine diesel engine. <i>International Journal of Spray and Combustion Dynamics</i> , 2017, 9, 186-198.	0.4	10

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37	Effects of concentrated rigid inclusions defects on the in-plane impact behavior of hexagonal honeycombs. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4691-4701.	0.7	9
38	Buckling of bi-segment spherical shells under hydrostatic external pressure. <i>Thin-Walled Structures</i> , 2017, 120, 1-8.	2.7	35
39	Opening reinforcement design and buckling of spherical shell subjected to external pressure. <i>International Journal of Pressure Vessels and Piping</i> , 2017, 158, 29-36.	1.2	21
40	Buckling of prolate egg-shaped domes under hydrostatic external pressure. <i>Thin-Walled Structures</i> , 2017, 119, 296-303.	2.7	48
41	Experimental Study on the Geometrical and Mechanical Properties of Goose Eggshells. <i>Brazilian Journal of Poultry Science</i> , 2017, 19, 455-464.	0.3	17
42	A Bufferable Tuned-Mass Damper of an Offshore Platform against Stroke and Response Delay Problems under Earthquake Loads. <i>Shock and Vibration</i> , 2016, 2016, 1-12.	0.3	7
43	The effect of oscillating flow on a horizontal dilute-phase pneumatic conveying. <i>Particulate Science and Technology</i> , 2016, 34, 699-706.	1.1	3
44	Development of Submersible Pressure Hull Design System. , 2015, , .		0
45	The research of platform vibration characteristics based on numerical wave simulation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 471-475.	1.1	0
46	Numerical analysis and verification of pile penetration into stiff-over-soft clay. <i>Petroleum Exploration and Development</i> , 2013, 40, 526-530.	3.0	3
47	Rubber curing process simulation based on parabola model. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 150-156.	0.4	9
48	Advanced Numerical Analysis of Jack-Up Spudcan Penetration in Layered Sandy Soil. <i>Applied Mechanics and Materials</i> , 2013, 339, 628-631.	0.2	0
49	Special Software Development for Tire Vulcanization Simulation. <i>Applied Mechanics and Materials</i> , 0, 404, 764-768.	0.2	2
50	K-Type, Inverse K-Type and X-Type Legs Stability Analysis of Jack-Up Offshore Platform. <i>Applied Mechanics and Materials</i> , 0, 312, 205-209.	0.2	0