

Xi-mei Zhai

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Test and design method for the buckling behaviors of 6082-T6 aluminum alloy columns with box-type and L-type sections under eccentric compression. <i>Thin-Walled Structures</i> , 2016, 100, 62-80.	5.3	47
2	Responses of curved steel-concrete-steel sandwich shells subjected to blast loading. <i>Thin-Walled Structures</i> , 2016, 108, 185-192.	5.3	46
3	Stability of 6082-T6 aluminium alloy columns with H-section and rectangular hollow sections. <i>Thin-Walled Structures</i> , 2015, 89, 1-16.	5.3	43
4	Low velocity impact performance of curved steel-concrete-steel sandwich shells with bolt connectors. <i>Thin-Walled Structures</i> , 2020, 150, 106672.	5.3	38
5	Energy absorption behaviour of an aluminium foam-filled circular-triangular nested tube energy absorber under impact loading. <i>Structures</i> , 2021, 34, 95-104.	3.6	33
6	Strength assessment of curved steel-concrete-steel sandwich shells with bolt connectors under concentrated load. <i>Engineering Structures</i> , 2020, 212, 110465.	5.3	31
7	Structural reliability analysis of reinforced grouted concrete block masonry walls in compression. <i>Engineering Structures</i> , 2010, 32, 106-114.	5.3	29
8	Experimental study on curved steel-concrete-steel sandwich shells under concentrated load by a hemi-spherical head. <i>Thin-Walled Structures</i> , 2019, 137, 117-128.	5.3	29
9	Crushing of a novel energy absorption connector with curved plate and aluminum foam as energy absorber. <i>Thin-Walled Structures</i> , 2017, 111, 145-154.	5.3	28
10	Energy absorption performance of a new circular-triangular nested tube and its application as sacrificial cladding. <i>Thin-Walled Structures</i> , 2020, 157, 106992.	5.3	25
11	Numerical studies of aluminum foam filled energy absorption connectors under quasi-static compression loading. <i>Thin-Walled Structures</i> , 2017, 116, 225-233.	5.3	23
12	Reliability assessment of aluminum alloy columns subjected to axial and eccentric loadings. <i>Structural Safety</i> , 2018, 70, 1-13.	5.3	23
13	Experimental, numerical and analytical studies on the aluminum foam filled energy absorption connectors under impact loading. <i>Thin-Walled Structures</i> , 2018, 131, 566-576.	5.3	23
14	Performance and protection approach of single-layer reticulated dome subjected to blast loading. <i>Thin-Walled Structures</i> , 2013, 73, 57-67.	5.3	22
15	Dynamic crushing response of an energy absorption connector with curved plate and aluminum foam as energy absorber. <i>International Journal of Impact Engineering</i> , 2018, 121, 119-133.	5.0	21
16	Behaviour of a novel stiffener-enhanced steel-concrete-steel sandwich beam subjected to impact loading. <i>Thin-Walled Structures</i> , 2021, 165, 107989.	5.3	21
17	Response of energy absorbing connector with polyurethane foam and multiple pleated plates under impact loading. <i>International Journal of Impact Engineering</i> , 2019, 133, 103356.	5.0	20
18	Experimental and numerical studies on steel-polyurethane foam-steel-concrete-steel panel under impact loading by a hemispherical head. <i>Engineering Structures</i> , 2021, 247, 113201.	5.3	20

#	ARTICLE	IF	CITATIONS
19	Impact response of steel-PU foam-steel-concrete-steel panel: Experimental, numerical and analytical studies. International Journal of Impact Engineering, 2021, 158, 104007.	5.0	16
20	Bending strength and design methods of the 6082-T6 aluminum alloy beams with circular hollow sections. Structures, 2020, 26, 870-887.	3.6	15
21	Buckling behaviors and ultimate strengths of 6082-T6 aluminum alloy columns under eccentric compression “ Part I: Experiments and finite element modeling. Thin-Walled Structures, 2019, 143, 106207.	5.3	13
22	Behavior of steel-concrete-steel sandwich beams with bolt connectors under off-center impact load. Journal of Constructional Steel Research, 2021, 186, 106889.	3.9	13
23	Modelling and Dynamic Response of Steel Reticulated Shell under Blast Loading. Shock and Vibration, 2013, 20, 19-28.	0.6	12
24	Failure Criteria for Grouted Concrete Block Masonry under Biaxial Compression. Advances in Structural Engineering, 2006, 9, 229-239.	2.4	11
25	Crushing of energy absorption connectors with polyurethane foam and asymmetric pleated plates. Journal of Constructional Steel Research, 2020, 166, 105902.	3.9	11
26	Experimental study on dynamic response of 6082-T6 aluminum alloy circular tubes under lateral low-velocity impact loading. International Journal of Impact Engineering, 2022, 166, 104257.	5.0	11
27	Numerical simulation of aluminum alloy 6082-T6 columns failing by overall buckling. Advances in Structural Engineering, 2016, 19, 1547-1574.	2.4	9
28	Thermal stress analysis of concrete wall of LNG tank during construction period. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2393-2406.	3.1	9
29	Modeling and Dynamic Response of Curved Steel-Concrete-Steel Sandwich Shells Under Blast Loading. International Journal of Steel Structures, 2020, 20, 1663-1681.	1.3	9
30	Buckling behaviors of aluminum foam-filled aluminum alloy composite columns under axial compression. Thin-Walled Structures, 2022, 177, 109399.	5.3	9
31	Dynamic Crushing Behaviors of Aluminum Foam Filled Energy Absorption Connectors. International Journal of Steel Structures, 2019, 19, 241-254.	1.3	8
32	Buckling behaviors and ultimate strength of 6082-T6 aluminum alloy columns with square and circular hollow sections under eccentric compression “ Part II: Parametric study, design provisions and reliability analysis. Thin-Walled Structures, 2019, 143, 106208.	5.3	8
33	Dynamic response of single-layer reticulated shell with explosion-protection wall under blast loading. Thin-Walled Structures, 2018, 127, 389-401.	5.3	7
34	Numerical Modeling and Dynamic Response of 160,000-m ³ Liquefied Natural Gas Outer Tank under Aircraft Impact. Journal of Performance of Constructed Facilities, 2019, 33, 04019039.	2.0	7
35	Response of flat steel-concrete-corrugated steel sandwich panel under drop-weight impact load by a hemi-spherical head. Journal of Building Engineering, 2021, 44, 102890.	3.4	7
36	Flexural behaviours of one-way steel-concrete-steel sandwich panels with novel hybrid connectors: Tests and analysis. Journal of Constructional Steel Research, 2022, 188, 107013.	3.9	7

#	ARTICLE	IF	CITATIONS
37	Damage model and damage assessment for single-layer reticulated domes under exterior blast load. Mechanics Based Design of Structures and Machines, 2019, 47, 319-338.	4.7	6
38	Experimental and numerical studies on novel stiffener-enhanced steel-concrete-steel sandwich panels subjected to impact loading. Journal of Building Engineering, 2022, 45, 103479.	3.4	5
39	Model Error and Structural Reliability for Reinforced Concrete Block Masonry Walls in Shear. Advances in Structural Engineering, 2012, 15, 389-398.	2.4	4
40	Experimental Research on Biaxial Compressive Strength of Grouted Concrete Block Masonry. Advances in Structural Engineering, 2009, 12, 451-461.	2.4	2
41	Stability of reticulated shell with steel panel as the bracing and time-varying structure for LNG tank during concrete dome casting. International Journal of Steel Structures, 2017, 17, 1145-1156.	1.3	2
42	Development of dimensionless P-I diagram for curved SCS sandwich shell subjected to uniformly distributed blast pressure. Frontiers of Structural and Civil Engineering, 2019, 13, 1432-1445.	2.9	2
43	Numerical study on the dynamic response of a massive liquefied natural gas outer tank under impact loading. Journal of Zhejiang University: Science A, 2019, 20, 823-837.	2.4	2
44	Stability Strength of Aluminum Alloy Columns under Concentric Compression. , 2012, , .		2
45	Numerical Study and Multi-objective Optimization of an Energy Absorbing Connector with Curved Plate and Aluminum Foam. International Journal of Steel Structures, 2020, 20, 287-299.	1.3	1