

# Xi-mei Zhai

## List of Publications by Year in descending order

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45  
papers

730  
citations

471509

17  
h-index

580821

25  
g-index

45  
all docs

45  
docs citations

45  
times ranked

293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexural behaviours of one-way steel-concrete-steel sandwich panels with novel hybrid connectors: Tests and analysis. <i>Journal of Constructional Steel Research</i> , 2022, 188, 107013.	3.9	7
2	Experimental and numerical studies on novel stiffener-enhanced steel-concrete-steel sandwich panels subjected to impact loading. <i>Journal of Building Engineering</i> , 2022, 45, 103479.	3.4	5
3	Experimental study on dynamic response of 6082-T6 aluminum alloy circular tubes under lateral low-velocity impact loading. <i>International Journal of Impact Engineering</i> , 2022, 166, 104257.	5.0	11
4	Buckling behaviors of aluminum foam-filled aluminum alloy composite columns under axial compression. <i>Thin-Walled Structures</i> , 2022, 177, 109399.	5.3	9
5	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
6	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
7	Behavior of steel-concrete-steel sandwich beams with bolt connectors under off-center impact load. <i>Journal of Constructional Steel Research</i> , 2021, 186, 106889.	3.9	13
8	Impact response of steel-PU foam-steel-concrete-steel panel: Experimental, numerical and analytical studies. <i>International Journal of Impact Engineering</i> , 2021, 158, 104007.	5.0	16
9	Response of flat steel-concrete-corrugated steel sandwich panel under drop-weight impact load by a hemi-spherical head. <i>Journal of Building Engineering</i> , 2021, 44, 102890.	3.4	7
10	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
11	Numerical Study and Multi-objective Optimization of an Energy Absorbing Connector with Curved Plate and Aluminum Foam. <i>International Journal of Steel Structures</i> , 2020, 20, 287-299.	1.3	1
12	Crushing of energy absorption connectors with polyurethane foam and asymmetric pleated plates. <i>Journal of Constructional Steel Research</i> , 2020, 166, 105902.	3.9	11
13	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
14	Modeling and Dynamic Response of Curved Steel-Concrete-Steel Sandwich Shells Under Blast Loading. <i>International Journal of Steel Structures</i> , 2020, 20, 1663-1681.	1.3	9
15	Bending strength and design methods of the 6082-T6 aluminum alloy beams with circular hollow sections. <i>Structures</i> , 2020, 26, 870-887.	3.6	15
16	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
17	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
18	Dynamic Crushing Behaviors of Aluminum Foam Filled Energy Absorption Connectors. <i>International Journal of Steel Structures</i> , 2019, 19, 241-254.	1.3	8

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19	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
20	Development of dimensionless P-I diagram for curved SCS sandwich shell subjected to uniformly distributed blast pressure. <i>Frontiers of Structural and Civil Engineering</i> , 2019, 13, 1432-1445.	2.9	2
21	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
22	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. <i>Thin-Walled Structures</i> , 2019, 143, 106208.	5.3	8
23	Numerical Modeling and Dynamic Response of 160,000-m <sup>3</sup> Liquefied Natural Gas Outer Tank under Aircraft Impact. <i>Journal of Performance of Constructed Facilities</i> , 2019, 33, 04019039.	2.0	7
24	Buckling behaviors and ultimate strengths of 6082-T6 aluminum alloy columns under eccentric compression – Part I: Experiments and finite element modeling. <i>Thin-Walled Structures</i> , 2019, 143, 106207.	5.3	13
25	Damage model and damage assessment for single-layer reticulated domes under exterior blast load. <i>Mechanics Based Design of Structures and Machines</i> , 2019, 47, 319-338.	4.7	6
26	Numerical study on the dynamic response of a massive liquefied natural gas outer tank under impact loading. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 823-837.	2.4	2
27	Dynamic response of single-layer reticulated shell with explosion-protection wall under blast loading. <i>Thin-Walled Structures</i> , 2018, 127, 389-401.	5.3	7
28	Reliability assessment of aluminum alloy columns subjected to axial and eccentric loadings. <i>Structural Safety</i> , 2018, 70, 1-13.	5.3	23
29	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
30	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
31	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
32	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
33	Stability of reticulated shell with steel panel as the bracing and time-varying structure for LNG tank during concrete dome casting. <i>International Journal of Steel Structures</i> , 2017, 17, 1145-1156.	1.3	2
34	Numerical simulation of aluminum alloy 6082-T6 columns failing by overall buckling. <i>Advances in Structural Engineering</i> , 2016, 19, 1547-1574.	2.4	9
35	Responses of curved steel-concrete-steel sandwich shells subjected to blast loading. <i>Thin-Walled Structures</i> , 2016, 108, 185-192.	5.3	46
36	Thermal stress analysis of concrete wall of LNG tank during construction period. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 2393-2406.	3.1	9

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37	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
38	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
39	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
40	Modelling and Dynamic Response of Steel Reticulated Shell under Blast Loading. <i>Shock and Vibration</i> , 2013, 20, 19-28.	0.6	12
41	Model Error and Structural Reliability for Reinforced Concrete Block Masonry Walls in Shear. <i>Advances in Structural Engineering</i> , 2012, 15, 389-398.	2.4	4
42	Stability Strength of Aluminum Alloy Columns under Concentric Compression. , 2012, , .		2
43	Structural reliability analysis of reinforced grouted concrete block masonry walls in compression. <i>Engineering Structures</i> , 2010, 32, 106-114.	5.3	29
44	Experimental Research on Biaxial Compressive Strength of Grouted Concrete Block Masonry. <i>Advances in Structural Engineering</i> , 2009, 12, 451-461.	2.4	2
45	Failure Criteria for Grouted Concrete Block Masonry under Biaxial Compression. <i>Advances in Structural Engineering</i> , 2006, 9, 229-239.	2.4	11