

Xihong Zhang

List of Publications by Year in descending order

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70
papers

1,897
citations

279487

23
h-index

264894

42
g-index

72
all docs

72
docs citations

72
times ranked

971
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of structural glass facades under extreme loads “ Design methods, existing research, current issues and trends. Construction and Building Materials, 2018, 163, 921-937.	3.2	133
2	Parametric study of laminated glass window response to blast loads. Engineering Structures, 2013, 56, 1707-1717.	2.6	114
3	Laboratory test and numerical simulation of laminated glass window vulnerability to debris impact. International Journal of Impact Engineering, 2013, 55, 49-62.	2.4	112
4	Numerical analysis of concrete material properties at high strain rate under direct tension. International Journal of Impact Engineering, 2012, 39, 51-62.	2.4	109
5	The mechanical properties of Polyvinyl Butyral (PVB) at high strain rates. Construction and Building Materials, 2015, 93, 404-415.	3.2	104
6	Experimental investigation of the response of precast segmental columns subjected to impact loading. International Journal of Impact Engineering, 2016, 95, 105-124.	2.4	92
7	Laboratory Test on Dynamic Material Properties of Annealed Float Glass. International Journal of Protective Structures, 2012, 3, 407-430.	1.4	90
8	Static and dynamic material properties of CFRP/epoxy laminates. Construction and Building Materials, 2016, 114, 638-649.	3.2	88
9	Dynamic material model of annealed soda-lime glass. International Journal of Impact Engineering, 2015, 77, 108-119.	2.4	81
10	Experimental study of laminated glass window responses under impulsive and blast loading. International Journal of Impact Engineering, 2015, 78, 1-19.	2.4	71
11	Experimental and numerical study on the behaviour of CFDST columns subjected to close-in blast loading. Engineering Structures, 2019, 185, 203-220.	2.6	55
12	Experimental and numerical study of boundary and anchorage effect on laminated glass windows under blast loading. Engineering Structures, 2015, 90, 96-116.	2.6	52
13	Vented Methane-air Explosion Overpressure Calculation“ A simplified approach based on CFD. Chemical Engineering Research and Design, 2017, 109, 489-508.	2.7	51
14	Dynamic response of rubberized concrete columns with and without FRP confinement subjected to lateral impact. Construction and Building Materials, 2018, 186, 207-218.	3.2	47
15	Experimental study on the behavior of precast segmental column with domed shear key and unbonded Post-Tensioning tendon under impact loading. Engineering Structures, 2018, 173, 589-605.	2.6	46
16	Experimental study of precast segmental columns with unbonded tendons under cyclic loading. Advances in Structural Engineering, 2018, 21, 319-334.	1.2	45
17	Cyclic test and numerical study of precast segmental concrete columns with BFRP and TEED. Bulletin of Earthquake Engineering, 2019, 17, 3475-3494.	2.3	40
18	Experimental investigation of monolithic tempered glass fragment characteristics subjected to blast loads. Engineering Structures, 2014, 75, 259-275.	2.6	37

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19	Dynamic compressive material properties of clay bricks at different strain rates. <i>Construction and Building Materials</i> , 2018, 192, 754-767.	3.2	32
20	Experimental and numerical investigation on the compressive properties of interlocking blocks. <i>Engineering Structures</i> , 2021, 228, 111561.	2.6	30
21	Post-blast performance and residual capacity of CFDST columns subjected to contact explosions. <i>Journal of Constructional Steel Research</i> , 2020, 167, 105960.	1.7	28
22	The response of glass window systems to blast loadings: An overview. <i>International Journal of Protective Structures</i> , 2016, 7, 123-154.	1.4	27
23	Improved impact resistant capacity of segmental column with fibre reinforced polymer wrap. <i>International Journal of Impact Engineering</i> , 2019, 125, 117-133.	2.4	27
24	The mechanical properties of ionoplast interlayer material at high strain rates. <i>Materials and Design</i> , 2015, 83, 387-399.	3.3	23
25	The effect of concrete shear key on the performance of segmental columns subjected to impact loading. <i>Advances in Structural Engineering</i> , 2017, 20, 352-373.	1.2	23
26	Free water effect on the dynamic compressive properties of mortar. <i>Cement and Concrete Composites</i> , 2021, 118, 103933.	4.6	21
27	Experimental study on the bearing capacity of large-diameter monopile in sand under water flow condition. <i>Ocean Engineering</i> , 2021, 224, 108708.	1.9	18
28	Multi-hazard resistance capacity of precast segmental columns under impact and cyclic loading. <i>International Journal of Protective Structures</i> , 2018, 9, 24-43.	1.4	16
29	Vulnerability and Protection of Glass Windows and Facades under Blast: Experiments, Methods and Current Trends. <i>International Journal of Structural Glass and Advanced Materials Research</i> , 2017, 1, 10-23.	0.4	15
30	Volumetric Properties of Concrete under True Triaxial Dynamic Compressive Loadings. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	15
31	Experimental study on the tension and puncture behavior of spray polyurea at high strain rates. <i>Polymer Testing</i> , 2021, 93, 106863.	2.3	15
32	Discussion on the suitability of dynamic constitutive models for prediction of geopolymer concrete structural responses under blast and impact loading. <i>International Journal of Impact Engineering</i> , 2022, 160, 104064.	2.4	15
33	Experimental investigation on the residual axial capacity of close-in blast damaged CFDST columns. <i>Thin-Walled Structures</i> , 2021, 165, 107976.	2.7	14
34	Numerical Analysis of Concrete Material Properties at High Strain Rate Under Direct Tension. <i>Procedia Engineering</i> , 2011, 14, 336-343.	1.2	13
35	Dynamic compressive properties of Kalgoorlie basalt rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104512.	2.6	13
36	The blast resistant performance of concrete-filled steel-tube segmental columns. <i>Journal of Constructional Steel Research</i> , 2020, 168, 105997.	1.7	13

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37	Failure mechanism and lateral bearing capacity of monopile-friction wheel hybrid foundations in soft-over-stiff soil deposit. <i>Marine Georesources and Geotechnology</i> , 2022, 40, 712-730.	1.2	12
38	Development of eco-efficient bricks – A life cycle assessment approach. <i>Journal of Building Engineering</i> , 2021, 42, 102429.	1.6	12
39	Capacity of caissons in stiff-over-soft clay under combined V-H-M loadings. <i>Ocean Engineering</i> , 2021, 229, 109007.	1.9	11
40	Installation of caisson in non-uniform clay interbedded with a sand layer. <i>Computers and Geotechnics</i> , 2021, 140, 104439.	2.3	11
41	Experimental Investigation on Monolithic Tempered Glass Window Responses to Blast Loads. <i>International Journal of Protective Structures</i> , 2015, 6, 287-309.	1.4	9
42	The mechanical performance of concrete shear key for prefabricated structures. <i>Advances in Structural Engineering</i> , 2021, 24, 291-306.	1.2	8
43	Response of reinforced mortar-less interlocking brick wall under seismic loading. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 6129-6165.	2.3	8
44	The response of precast concrete segmental columns subjected to near base impact. <i>International Journal of Protective Structures</i> , 2019, 10, 229-250.	1.4	7
45	Pressure reduction mechanism and effect of working face passing through abandoned roadway by roof presplit. <i>Energy Science and Engineering</i> , 2020, 8, 3502-3513.	1.9	7
46	Improved analysis method for structural members subjected to blast loads considering strain hardening and softening effects. <i>Advances in Structural Engineering</i> , 2021, 24, 2622-2636.	1.2	7
47	Effects of steel fiber grout on the mechanical performance and failure characteristics of fully grouted bolts. <i>Structures</i> , 2021, 33, 1096-1106.	1.7	7
48	Numerical investigation of caisson with pad-eye stiffener installation into nonhomogeneous clay. <i>Applied Ocean Research</i> , 2022, 121, 103077.	1.8	7
49	Numerical analysis of dynamic responses of laminated glass window subjected to gas explosions. <i>Engineering Structures</i> , 2021, 238, 112243.	2.6	6
50	Dynamic Tensile Properties of Clay Bricks. <i>Mechanics of Materials</i> , 2022, 165, 104157.	1.7	6
51	Techno-Assessment of the Use of Recycled Plastic Waste in RE. <i>Sustainability</i> , 2021, 13, 8678.	1.6	5
52	Evaluation of capacities of bucket foundations in soft-stiff-soft clays under combined loading. <i>Applied Ocean Research</i> , 2021, 115, 102843.	1.8	5
53	Experimental and numerical studies of the shear resistance capacities of interlocking blocks. <i>Journal of Building Engineering</i> , 2021, 44, 103230.	1.6	5
54	Investigation on the mechanical behavior and failure characteristics of fully grouted bolts under tension. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-15.	1.2	4

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55	Time variant system identification of superstructures of base-isolated buildings. <i>Engineering Structures</i> , 2021, 246, 112697.	2.6	4
56	Bearing capacity of bucket foundations in silt-over-clay soil condition under combined V-H-M loading. <i>Marine Georesources and Geotechnology</i> , 2022, 40, 1490-1507.	1.2	4
57	Residual axial capacity of circular reinforced concrete columns subjected to contact explosions. <i>Advances in Structural Engineering</i> , 2022, 25, 1622-1635.	1.2	4
58	Structural behavior and vibration characteristics of geopolymer composite lightweight sandwich panels for prefabricated buildings. <i>Journal of Building Engineering</i> , 2022, 57, 104872.	1.6	4
59	On the effectiveness of ventilation to mitigate the damage of spherical chambers subjected to confined trinitrotoluene detonations. <i>Advances in Structural Engineering</i> , 2019, 22, 486-501.	1.2	3
60	Advancements in Design, Analysis, and Retrofitting of Structures Exposed to Blast. <i>Advances in Civil Engineering</i> , 2016, 2016, 1-2.	0.4	2
61	Behavior of offshore dike using non-uniform geotextile mats on clay-overlying-sand soil deposits. <i>Marine Georesources and Geotechnology</i> , 2021, 39, 1397-1410.	1.2	2
62	An investigation of impact resistance capacity of polypropylene (PP) added plasterboard subjected to soft-body impact. <i>Composite Structures</i> , 2021, 275, 114370.	3.1	2
63	Improved resistance functions for RC elements accounting for compressive and tensile membrane actions. <i>Engineering Structures</i> , 2022, 251, 113549.	2.6	2
64	A experimental study of a cable-pulleys spring-damper energy dissipation system for buildings. <i>Journal of Building Engineering</i> , 2022, , 104034.	1.6	2
65	The scale effect on the failure mechanism and penetration resistance of caisson piling in clay. <i>Acta Geotechnica</i> , 2022, 17, 4447-4460.	2.9	2
66	On the effectiveness of ventilation to mitigate the damage of spherical membrane vessels subjected to internal detonations. <i>International Journal of Protective Structures</i> , 2020, 11, 319-339.	1.4	1
67	Performance of TGU Windows under Explosive Loading. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2020, , 49-59.	0.1	1
68	Advancements in Analysis and Design of Protective Structures against Extreme Loadings. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-2.	0.4	0
69	Deep Rock Behaviour in Engineering Environments. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-3.	0.4	0
70	Bearing Capacities of Buried Bucket Foundations in Marine Tidal Flat Subjected to Combined Loading. <i>International Journal of Geomechanics</i> , 2022, 22, .	1.3	0