Xihong Zhang

List of Publications by Year
in descending order

70	1,897	279487 23	264894 42
papers	citations	h-index	g-index

72	72	72	971
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Failure mechanism and lateral bearing capacity of monopile-friction wheel hybrid foundations in soft-over-stiff soil deposit. Marine Georesources and Geotechnology, 2022, 40, 712-730.	1.2	12
2	Discussion on the suitability of dynamic constitutive models for prediction of geopolymer concrete structural responses under blast and impact loading. International Journal of Impact Engineering, 2022, 160, 104064.	2.4	15
3	Improved resistance functions for RC elements accounting for compressive and tensile membrane actions. Engineering Structures, 2022, 251, 113549.	2.6	2
4	Dynamic Tensile Properties of Clay Bricks. Mechanics of Materials, 2022, 165, 104157.	1.7	6
5	A experimental study of a cable-pulleys spring-damper energy dissipation system for buildings. Journal of Building Engineering, 2022, , 104034.	1.6	2
6	Numerical investigation of caisson with pad-eye stiffener installation into nonhomogeneous clay. Applied Ocean Research, 2022, 121, 103077.	1.8	7
7	Bearing capacity of bucket foundations in silt-over-clay soil condition under combined V-H-M loading. Marine Georesources and Geotechnology, 2022, 40, 1490-1507.	1.2	4
8	Residual axial capacity of circular reinforced concrete columns subjected to contact explosions. Advances in Structural Engineering, 2022, 25, 1622-1635.	1.2	4
9	The scale effect on the failure mechanism and penetration resistance of caisson piling in clay. Acta Geotechnica, 2022, 17, 4447-4460.	2.9	2
10	Bearing Capacities of Buried Bucket Foundations in Marine Tidal Flat Subjected to Combined Loading. International Journal of Geomechanics, 2022, 22, .	1.3	0
11	Response of reinforced mortar-less interlocking brick wall under seismic loading. Bulletin of Earthquake Engineering, 2022, 20, 6129-6165.	2.3	8
12	Structural behavior and vibration characteristics of geopolymer composite lightweight sandwich panels for prefabricated buildings. Journal of Building Engineering, 2022, 57, 104872.	1.6	4
13	Behavior of offshore dike using non-uniform geotextile mats on clay-overlaying-sand soil deposits. Marine Georesources and Geotechnology, 2021, 39, 1397-1410.	1.2	2
14	Experimental and numerical investigation on the compressive properties of interlocking blocks. Engineering Structures, 2021, 228, 111561.	2.6	30
15	Experimental study on the tension and puncture behavior of spray polyurea at high strain rates. Polymer Testing, 2021, 93, 106863.	2.3	15
16	The mechanical performance of concrete shear key for prefabricated structures. Advances in Structural Engineering, 2021, 24, 291-306.	1.2	8
17	Experimental study on the bearing capacity of large-diameter monopile in sand under water flow condition. Ocean Engineering, 2021, 224, 108708.	1.9	18
18	Improved analysis method for structural members subjected to blast loads considering strain hardening and softening effects. Advances in Structural Engineering, 2021, 24, 2622-2636.	1.2	7

#	Article	IF	Citations
19	Free water effect on the dynamic compressive properties of mortar. Cement and Concrete Composites, 2021, 118, 103933.	4.6	21
20	Capacity of caissons in stiff-over-soft clay under combined Vâ€“H-M loadings. Ocean Engineering, 2021, 229, 109007.	1.9	11
21	Numerical analysis of dynamic responses of laminated glass window subjected to gas explosions. Engineering Structures, 2021, 238, 112243.	2.6	6
22	Techno-Assessment of the Use of Recycled Plastic Waste in RE. Sustainability, 2021, 13, 8678.	1.6	5
23	Experimental investigation on the residual axial capacity of close-in blast damaged CFDST columns. Thin-Walled Structures, 2021, 165, 107976.	2.7	14
24	Effects of steel fiber grout on the mechanical performance and failure characteristics of fully grouted bolts. Structures, 2021, 33, 1096-1106.	1.7	7
25	Evaluation of capacities of bucket foundations in soft-stiff-soft clays under combined loading. Applied Ocean Research, 2021, 115, 102843.	1.8	5
26	Development of eco-efficient bricks â€“ A life cycle assessment approach. Journal of Building Engineering, 2021, 42, 102429.	1.6	12
27	An investigation of impact resistance capacity of polypropylene (PP) added plasterboard subjected to soft-body impact. Composite Structures, 2021, 275, 114370.	3.1	2
28	Time variant system identification of superstructures of base-isolated buildings. Engineering Structures, 2021, 246, 112697.	2.6	4
29	Installation of caisson in non-uniform clay interbedded with a sand layer. Computers and Geotechnics, 2021, 140, 104439.	2.3	11
30	Experimental and numerical studies of the shear resistance capacities of interlocking blocks. Journal of Building Engineering, 2021, 44, 103230.	1.6	5
31	Deep Rock Behaviour in Engineering Environments. Advances in Civil Engineering, 2021, 2021, 1-3.	0.4	0
32	Investigation on the mechanical behavior and failure characteristics of fully grouted bolts under tension. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-15.	1.2	4
33	Dynamic compressive properties of Kalgoorlie basalt rock. International Journal of Rock Mechanics and Minings Sciences, 2020, 135, 104512.	2.6	13
34	Pressure reduction mechanism and effect of working face passing through abandoned roadway by roof presplit. Energy Science and Engineering, 2020, 8, 3502-3513.	1.9	7
35	On the effectiveness of ventilation to mitigate the damage of spherical membrane vessels subjected to internal detonations. International Journal of Protective Structures, 2020, 11, 319-339.	1.4	1
36	Post-blast performance and residual capacity of CFDST columns subjected to contact explosions. Journal of Constructional Steel Research, 2020, 167, 105960.	1.7	28

#	Article	IF	Citations
37	The blast resistant performance of concrete-filled steel-tube segmental columns. Journal of Constructional Steel Research, 2020, 168, 105997.	1.7	13
38	Performance of TGU Windows under Explosive Loading. NATO Science for Peace and Security Series C: Environmental Security, 2020, , 49-59.	0.1	1
39	Advancements in Analysis and Design of Protective Structures against Extreme Loadings. Advances in Civil Engineering, 2019, 2019, 1-2.	0.4	0
40	Volumetric Properties of Concrete under True Triaxial Dynamic Compressive Loadings. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	15
41	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
42	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
43	The response of precast concrete segmental columns subjected to near base impact. International Journal of Protective Structures, 2019, 10, 229-250.	1.4	7
44	Improved impact resistant capacity of segmental column with fibre reinforced polymer wrap. International Journal of Impact Engineering, 2019, 125, 117-133.	2.4	27
45	On the effectiveness of ventilation to mitigate the damage of spherical chambers subjected to confined trinitrotoluene detonations. Advances in Structural Engineering, 2019, 22, 486-501.	1.2	3
46	Multi-hazard resistance capacity of precast segmental columns under impact and cyclic loading. International Journal of Protective Structures, 2018, 9, 24-43.	1.4	16
47	Performance of structural glass facades under extreme loads â€“ Design methods, existing research, current issues and trends. Construction and Building Materials, 2018, 163, 921-937.	3.2	133
48	Experimental study of precast segmental columns with unbonded tendons under cyclic loading. Advances in Structural Engineering, 2018, 21, 319-334.	1.2	45
49	Dynamic compressive material properties of clay bricks at different strain rates. Construction and Building Materials, 2018, 192, 754-767.	3.2	32
50	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
51	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
52	Vented Methane-air Explosion Overpressure Calculationâ€”A simplified approach based on CFD. Chemical Engineering Research and Design, 2017, 109, 489-508.	2.7	51
53	The effect of concrete shear key on the performance of segmental columns subjected to impact loading. Advances in Structural Engineering, 2017, 20, 352-373.	1.2	23
54	Vulnerability and Protection of Glass Windows and Facades under Blast: Experiments, Methods and Current Trends. International Journal of Structural Glass and Advanced Materials Research, 2017, 1, 10-23.	0.4	15

#	ARTICLE	IF	CITATIONS
55	Advancements in Design, Analysis, and Retrofitting of Structures Exposed to Blast. Advances in Civil Engineering, 2016, 2016, 1-2.	0.4	2
56	The response of glass window systems to blast loadings: An overview. International Journal of Protective Structures, 2016, 7, 123-154.	1.4	27
57	Static and dynamic material properties of CFRP/epoxy laminates. Construction and Building Materials, 2016, 114, 638-649.	3.2	88
58	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
59	Experimental Investigation on Monolithic Tempered Glass Window Responses to Blast Loads. International Journal of Protective Structures, 2015, 6, 287-309.	1.4	9
60	The mechanical properties of Polyvinyl Butyral (PVB) at high strain rates. Construction and Building Materials, 2015, 93, 404-415.	3.2	104
61	The mechanical properties of ionoplast interlayer material at high strain rates. Materials and Design, 2015, 83, 387-399.	3.3	23
62	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
63	Experimental study of laminated glass window responses under impulsive and blast loading. International Journal of Impact Engineering, 2015, 78, 1-19.	2.4	71
64	Dynamic material model of annealed soda-lime glass. International Journal of Impact Engineering, 2015, 77, 108-119.	2.4	81
65	Experimental investigation of monolithic tempered glass fragment characteristics subjected to blast loads. Engineering Structures, 2014, 75, 259-275.	2.6	37
66	Parametric study of laminated glass window response to blast loads. Engineering Structures, 2013, 56, 1707-1717.	2.6	114
67	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
68	Laboratory Test on Dynamic Material Properties of Annealed Float Glass. International Journal of Protective Structures, 2012, 3, 407-430.	1.4	90
69	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
70	Numerical Analysis of Concrete Material Properties at High Strain Rate Under Direct Tension. Procedia Engineering, 2011, 14, 336-343.	1.2	13