

Jiachuan Yan

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

488
citations

687363

13
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

259
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of parent concrete and mixing method on the resistance to freezing and thawing of air-entrained recycled aggregate concrete. <i>Construction and Building Materials</i> , 2016, 106, 264-273.	7.2	80
2	Ultimate strength behaviour of S-UHPC-S and SCS sandwich beams under shear loads. <i>Journal of Constructional Steel Research</i> , 2018, 149, 195-206.	3.9	45
3	Effect of silica fumes on fluidity of UHPC: Experiments, influence mechanism and evaluation methods. <i>Construction and Building Materials</i> , 2019, 210, 451-460.	7.2	35
4	Shear failure mechanisms of SCS sandwich beams considering bond-slip between steel plates and concrete. <i>Engineering Structures</i> , 2019, 181, 458-475.	5.3	34
5	Effect of recycled fine aggregates on alkali-activated slag concrete properties. <i>Structures</i> , 2021, 30, 89-99.	3.6	31
6	Bond behavior between deformed steel bars and recycled aggregate concrete after freeze-thaw cycles. <i>Construction and Building Materials</i> , 2020, 232, 117236.	7.2	30
7	Failure mechanism and failure patterns of SCS composite beams with steel-fiber-reinforced UHPC. <i>Engineering Structures</i> , 2020, 211, 110471.	5.3	29
8	Experimental study on large-scale 3D printed concrete walls under axial compression. <i>Automation in Construction</i> , 2022, 133, 103993.	9.8	26
9	Effects of steel fibers on failure mechanism of S-UHPC composite beams applied in the Arctic offshore structure. <i>Ocean Engineering</i> , 2021, 234, 109302.	4.3	20
10	Failure mechanism of a prestressed concrete containment vessel in nuclear power plant subjected to accident internal pressure. <i>Annals of Nuclear Energy</i> , 2019, 133, 610-622.	1.8	19
11	Mechanical properties of steel-UHPC-steel slabs under concentrated loads considering composite action. <i>Engineering Structures</i> , 2020, 222, 111095.	5.3	19
12	Innovative prediction models for the frost durability of recycled aggregate concrete using soft computing methods. <i>Journal of Building Engineering</i> , 2021, 34, 101822.	3.4	19
13	Study on failure mechanism of prestressed concrete containments following a loss of coolant accident. <i>Engineering Structures</i> , 2020, 202, 109860.	5.3	16
14	Minimum shear reinforcement ratio of steel plate concrete beams. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 3927-3944.	3.1	13
15	Influence of shear connectors on the ultimate capacity of steel-UHPC-steel slabs subjected to concentrated loads. <i>Engineering Structures</i> , 2021, 231, 111763.	5.3	13
16	Ultimate capacity and failure mechanism of SCS and S-UHPC composite deep beams: Test and modeling. <i>Engineering Structures</i> , 2021, 245, 112874.	5.3	12
17	Influence of Cooking Oil on the Mitigation of Autogenous Shrinkage of Alkali-Activated Slag Concrete. <i>Materials</i> , 2020, 13, 4907.	2.9	9
18	Numerical modeling and seismic evaluation of masonry-infilled reinforced concrete frames retrofitted with carbon fiber-reinforced polymer wraps. <i>Advances in Structural Engineering</i> , 2018, 21, 1526-1541.	2.4	7

#	ARTICLE	IF	CITATIONS
19	Study on mechanical behavior of containment in nuclear power plant during prestressing construction. Nuclear Engineering and Design, 2018, 338, 247-260.	1.7	7
20	Bond behavior of deformed steel bars in self-compacting concrete. Journal of Adhesion Science and Technology, 2021, 35, 1518-1533.	2.6	7
21	Reinforcement of orthogonal ties in steel-fiber-reinforced reactive powder concrete anchorage zone. Advances in Structural Engineering, 2019, 22, 2311-2321.	2.4	5
22	Eccentric compressive behavior of recycled aggregate concrete columns after freezing and thawing cycles. Advances in Structural Engineering, 2018, 21, 2299-2310.	2.4	4
23	Shear transfer behavior between substrate recycled aggregate concrete and new natural aggregate concrete. Structural Concrete, 2021, 22, 1022-1036.	3.1	4
24	Punching shear performance of steel-fiber reinforced concrete-steel sandwich plates under different patch loading heads. Journal of Building Engineering, 2022, 48, 103955.	3.4	4
25	Experimental research on Tensairity. , 2011, , .		0