Renbo Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8925833/publications.pdf

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37	997	394390	434170
papers	citations	19 h-index	31 g-index

37	37	37	584
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fatigue life estimating for chloride attacked RC beams using the S-N curve combined with mesoscale simulation of chloride ingress. International Journal of Fatigue, 2022, 158, 106751.	5.7	11
2	Mesoscale modelling of bond performance between deformed steel bar and concrete subjected to dynamic loads. International Journal of Impact Engineering, 2022, 163, 104159.	5.0	16
3	3D meso-scale modelling of the bonding failure between corroded ribbed steel bar and concrete. Engineering Structures, 2022, 256, 113939.	5.3	12
4	Refined modeling of the interfacial behavior between FRP bars and concrete under different loading rates. Composite Structures, 2022, 291, 115676.	5.8	10
5	Static bond performance between BFRP bars and concrete with stirrup confinement: A refined modelling. Engineering Structures, 2022, 262, 114379.	5.3	8
6	Combined effect of corrosion and strain rate on the bond behavior: A two-stage simulation. International Journal of Mechanical Sciences, 2022, 227, 107438.	6.7	5
7	Combined effects of cryogenic temperature and strain rates on compressive behavior of concrete. International Journal of Damage Mechanics, 2022, 31, 1396-1419.	4.2	4
8	Meso-scale modelling the post-fire seismic behavior of RC short columns. Engineering Failure Analysis, 2021, 120, 105117.	4.0	10
9	Effect of elevated temperature on thelow-velocity impact performances of reinforced concrete slabs. International Journal of Impact Engineering, 2021, 149, 103797.	5.0	13
10	Three-dimensional meso-scale modelling of failure of steel fiber reinforced concrete at room and elevated temperatures. Construction and Building Materials, 2021, 278, 122368.	7.2	32
11	Bond-slip behavior between concrete and deformed rebar at elevated temperature: Mesoscale simulation and formulation. International Journal of Mechanical Sciences, 2021, 205, 106622.	6.7	26
12	Mesoscopic simulation on flexural behavior of single-way reinforced concrete slab with rebars subjected to localized corrosion. Structures, 2021, 31, 815-827.	3.6	6
13	A multi-stage mesoscopic numerical approach to simulate the flexural behavior of concrete beams with corroded rebars. Engineering Structures, 2021, 245, 112913.	5.3	4
14	Numerical analysis of the mechanical behavior of the impact-damaged RC beams strengthened with CFRP. Composite Structures, 2021, 274, 114353.	5.8	14
15	Structural behavior of the steel fiber reinforced concrete beam under multiple impact loadings: An experimental investigation. International Journal of Damage Mechanics, 2020, 29, 503-526.	4.2	6
16	3D meso-scale modelling of the interface behavior between ribbed steel bar and concrete. Engineering Fracture Mechanics, 2020, 239, 107291.	4.3	31
17	Impact resistance of RC beams under different combinations of mass and velocity: mesoscale numerical analysis. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	3.8	8
18	Cracking of cover concrete due to non-uniform corrosion of corner rebar: A 3D meso-scale study. Construction and Building Materials, 2020, 245, 118449.	7.2	37

#	Article	IF	Citations
19	Mesoscale Simulation on the Effect of Elevated Temperature on Dynamic Compressive Behavior of Steel Fiber Reinforced Concrete. Fire Technology, 2020, 56, 1801-1823.	3.0	6
20	Impact behavior of SFRC beams at elevated temperatures: Experimental and analytical studies. Engineering Structures, 2019, 197, 109401.	5.3	9
21	Impact performances of RC beams at/after elevated temperature: A meso-scale study. Engineering Failure Analysis, 2019, 105, 196-214.	4.0	28
22	Experimental study on dynamic compressive behavior of steel fiber reinforced concrete at elevated temperatures. Construction and Building Materials, 2019, 210, 673-684.	7.2	42
23	Static and dynamic mechanical properties of ecoâ€friendly polyvinyl alcohol fiberâ€reinforced ultraâ€highâ€strength concrete. Structural Concrete, 2019, 20, 1051-1063.	3.1	29
24	Characterisation of temperature-dependent heat conduction in heterogeneous concrete. Magazine of Concrete Research, 2018, 70, 325-339.	2.0	12
25	Fire resistance of steel fiber reinforced concrete beams after low-velocity impact loading. Fire Safety Journal, 2018, 98, 24-37.	3.1	42
26	Experimental and numerical study of reinforced concrete beams with steel fibers subjected to impact loading. International Journal of Damage Mechanics, 2018, 27, 1058-1083.	4.2	40
27	Experimental investigation on static and dynamic mechanical properties of steel fiber reinforced ultra-high-strength concretes. Construction and Building Materials, 2018, 178, 102-111.	7.2	81
28	Determination of the effect of elevated temperatures on dynamic compressive properties of heterogeneous concrete: A meso-scale numerical study. Construction and Building Materials, 2018, 188, 685-694.	7.2	24
29	Numerical study on the impact performances of reinforced concrete beams: A mesoscopic simulation method. Engineering Failure Analysis, 2017, 80, 141-163.	4.0	38
30	Numerical investigation of chloride diffusivity in cracked concrete. Magazine of Concrete Research, 2017, 69, 850-864.	2.0	9
31	Computational homogenization for thermal conduction in heterogeneous concrete after mechanical stress. Construction and Building Materials, 2017, 141, 222-234.	7.2	35
32	Experimental and numerical study on chloride transmission in cracked concrete. Construction and Building Materials, 2016, 127, 425-435.	7.2	52
33	Chloride diffusivity in saturated cement paste subjected to external mechanical loadings. Ocean Engineering, 2015, 95, 1-10.	4.3	64
34	Investigation on the cracking behavior of concrete cover induced by corner located rebar corrosion. Engineering Failure Analysis, 2015, 52, 129-143.	4.0	50
35	Effect of cracks on concrete diffusivity: A meso-scale numerical study. Ocean Engineering, 2015, 108, 539-551.	4.3	50
36	Multi-scale analytical theory of the diffusivity of concrete subjected to mechanical stress. Construction and Building Materials, 2015, 95, 171-185.	7.2	37

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37	Modeling the cracking of cover concrete due to non-uniform corrosion of reinforcement. Corrosion Science, 2014, 89, 189-202.	6.6	96