

Bo-Tao Huang

List of Publications by Year in descending order

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36
papers

1,851
citations

186209

28
h-index

345118

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all docs

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docs citations

36
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Seawater sea-sand engineered/strain-hardening cementitious composites (ECC/SHCC): Assessment and modeling of crack characteristics. <i>Cement and Concrete Research</i> , 2021, 140, 106292.	4.6	135
2	High-strength high-ductility Engineered/Strain-Hardening Cementitious Composites (ECC/SHCC) incorporating geopolymer fine aggregates. <i>Cement and Concrete Composites</i> , 2022, 125, 104296.	4.6	91
3	Seawater sea-sand Engineered Cementitious Composites (SS-ECC) for marine and coastal applications. <i>Composites Communications</i> , 2020, 20, 100353.	3.3	90
4	Compressive fatigue damage and failure mechanism of fiber reinforced cementitious material with high ductility. <i>Cement and Concrete Research</i> , 2016, 90, 174-183.	4.6	87
5	Influence of the PVA fibers and SiO ₂ NPs on the structural properties of fly ash based sustainable geopolymer. <i>Construction and Building Materials</i> , 2018, 164, 238-245.	3.2	86
6	High-strength seawater sea-sand Engineered Cementitious Composites (SS-ECC): Mechanical performance and probabilistic modeling. <i>Cement and Concrete Composites</i> , 2020, 114, 103740.	4.6	85
7	Fatigue deformation behavior and fiber failure mechanism of ultra-high toughness cementitious composites in compression. <i>Materials and Design</i> , 2018, 157, 457-468.	3.3	81
8	Ultra-high-strength engineered/strain-hardening cementitious composites (ECC/SHCC): Material design and effect of fiber hybridization. <i>Cement and Concrete Composites</i> , 2022, 129, 104464.	4.6	80
9	Strengthening of reinforced concrete structure using sprayable fiber-reinforced cementitious composites with high ductility. <i>Composite Structures</i> , 2019, 220, 940-952.	3.1	77
10	Development of reinforced ultra-high toughness cementitious composite permanent formwork: Experimental study and Digital Image Correlation analysis. <i>Composite Structures</i> , 2017, 180, 892-903.	3.1	75
11	Engineered/strain-hardening cementitious composites (ECC/SHCC) with an ultra-high compressive strength over 210MPa. <i>Composites Communications</i> , 2021, 26, 100775.	3.3	73
12	Fatigue Deformation Model of Plain and Fiber-Reinforced Concrete Based on Weibull Function. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	71
13	Tensile fatigue behavior of fiber-reinforced cementitious material with high ductility: Experimental study and novel P - S - N model. <i>Construction and Building Materials</i> , 2018, 178, 349-359.	3.2	67
14	Strain-hardening Ultra-High-Performance Geopolymer Concrete (UHPGC): Matrix design and effect of steel fibers. <i>Composites Communications</i> , 2022, 30, 101081.	3.3	67
15	Artificial alkali-activated aggregates developed from wastes and by-products: A state-of-the-art review. <i>Resources, Conservation and Recycling</i> , 2022, 177, 105971.	5.3	51
16	Static and fatigue performance of reinforced concrete beam strengthened with strain-hardening fiber-reinforced cementitious composite. <i>Engineering Structures</i> , 2019, 199, 109576.	2.6	50
17	Recent developments in Engineered/Strain-Hardening Cementitious Composites (ECC/SHCC) with high and ultra-high strength. <i>Construction and Building Materials</i> , 2022, 342, 127956.	3.2	50
18	Effect of fiber content on mechanical performance and cracking characteristics of ultra-high-performance seawater sea-sand concrete (UHP-SSC). <i>Advances in Structural Engineering</i> , 2021, 24, 1182-1195.	1.2	49

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19	Development of artificial one-part geopolymer lightweight aggregates by crushing technique. <i>Journal of Cleaner Production</i> , 2021, 315, 128200.	4.6	49
20	Development of engineered cementitious composites (ECC) using artificial fine aggregates. <i>Construction and Building Materials</i> , 2021, 305, 124742.	3.2	47
21	Experimental study on full-volume fly ash geopolymer mortars: Sintered fly ash versus sand as fine aggregates. <i>Journal of Cleaner Production</i> , 2020, 263, 121445.	4.6	46
22	Flexural Performance of UHPC-Concrete-ECC Composite Member Reinforced with Perforated Steel Plates. <i>Journal of Structural Engineering</i> , 2021, 147, .	1.7	46
23	Flexural strengthening of reinforced concrete beams using geopolymer-bonded small-diameter CFRP bars. <i>Engineering Structures</i> , 2022, 256, 113992.	2.6	41
24	Frequency Effect on the Compressive Fatigue Behavior of Ultrahigh Toughness Cementitious Composites: Experimental Study and Probabilistic Analysis. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	38
25	Development of assembled permanent formwork using ultra high toughness cementitious composites. <i>Advances in Structural Engineering</i> , 2016, 19, 1142-1152.	1.2	34
26	Enhancing long-term tensile performance of Engineered Cementitious Composites (ECC) using sustainable artificial geopolymer aggregates. <i>Cement and Concrete Composites</i> , 2022, 133, 104676.	4.6	34
27	Tailoring strain-hardening behavior of high-strength Engineered Cementitious Composites (ECC) using hybrid silica sand and artificial geopolymer aggregates. <i>Materials and Design</i> , 2022, 220, 110876.	3.3	32
28	Shear interfacial fracture of strain-hardening fiber-reinforced cementitious composites and concrete: A novel approach. <i>Engineering Fracture Mechanics</i> , 2021, 253, 107849.	2.0	31
29	Recent Advances in Strain-Hardening UHPC with Synthetic Fibers. <i>Journal of Composites Science</i> , 2021, 5, 283.	1.4	21
30	Shear fracture performance of the interface between ultra-high toughness cementitious composites and reactive powder concrete. <i>Composite Structures</i> , 2021, 275, 114403.	3.1	15
31	Development of ultrahigh-strength ultrahigh-toughness cementitious composites (UHS-UHTCC) using polyethylene and steel fibers. <i>Composites Communications</i> , 2022, 29, 100992.	3.3	15
32	Strengthening of the concrete face slabs of dams using sprayable strain-hardening fiber-reinforced cementitious composites. <i>Frontiers of Structural and Civil Engineering</i> , 2022, 16, 145-160.	1.2	14
33	Fire Performance of Steel-Reinforced Ultrahigh-Toughness Cementitious Composite Columns: Experimental Investigation and Numerical Analyses. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	8
34	Prefabricated UHPC-concrete-ECC underground utility tunnel reinforced by perforated steel plate: Experimental and numerical investigations. <i>Case Studies in Construction Materials</i> , 2022, 16, e00856.	0.8	6
35	Bond performance of FRP bars in plain and fiber-reinforced geopolymer under pull-out loading. <i>Journal of Building Engineering</i> , 2022, 57, 104893.	1.6	6
36	Tensile and Compressive Performance of High-Strength Engineered Cementitious Composites (ECC) with Seawater and Sea-Sand. <i>RILEM Bookseries</i> , 2021, , 1034-1041.	0.2	3