

Yixin Shao

List of Publications by Year in descending order

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82
papers

4,547
citations

126708

33
h-index

102304

66
g-index

82
all docs

82
docs citations

82
times ranked

2206
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on concrete containing ground waste glass. Cement and Concrete Research, 2000, 30, 91-100.	4.6	539
2	Review on carbonation curing of cement-based materials. Journal of CO2 Utilization, 2017, 21, 119-131.	3.3	398
3	Microstructure of cement paste subject to early carbonation curing. Cement and Concrete Research, 2012, 42, 186-193.	4.6	388
4	Durability of concrete pipes subjected to combined steam and carbonation curing. Construction and Building Materials, 2011, 25, 3345-3355.	3.2	173
5	Mathematical modeling of CO ₂ uptake by concrete during accelerated carbonation curing. Cement and Concrete Research, 2015, 67, 1-10.	4.6	156
6	Carbonation Curing versus Steam Curing for Precast Concrete Production. Journal of Materials in Civil Engineering, 2012, 24, 1221-1229.	1.3	155
7	High-strength KOBM steel slag binder activated by carbonation. Construction and Building Materials, 2015, 99, 175-183.	3.2	143
8	Effect of early carbonation curing on chloride penetration and weathering carbonation in concrete. Construction and Building Materials, 2016, 123, 516-526.	3.2	124
9	Early age carbonation curing for precast reinforced concretes. Construction and Building Materials, 2016, 113, 134-143.	3.2	124
10	Assessing the Carbonation Behavior of Cementitious Materials. Journal of Materials in Civil Engineering, 2006, 18, 768-776.	1.3	123
11	Early carbonation curing of concrete masonry units with Portland limestone cement. Cement and Concrete Composites, 2015, 62, 168-177.	4.6	110
12	CO ₂ sequestration using calcium-silicate concrete. Canadian Journal of Civil Engineering, 2006, 33, 776-784.	0.7	101
13	Production of carbonate aggregates using steel slag and carbon dioxide for carbon-negative concrete. Journal of CO ₂ Utilization, 2017, 18, 125-138.	3.3	90
14	Accelerated Carbonation of Portland Limestone Cement. Journal of Materials in Civil Engineering, 2014, 26, 117-124.	1.3	89
15	Carbonation Curing of Slag-Cement Concrete for Binding CO ₂ and Improving Performance. Journal of Materials in Civil Engineering, 2010, 22, 296-304.	1.3	85
16	Carbonation Curing of Precast Fly Ash Concrete. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	82
17	Production of eco-cement exclusively from municipal solid waste incineration residues. Resources, Conservation and Recycling, 2019, 149, 332-342.	5.3	79
18	Carbon dioxide activated ladle slag binder. Construction and Building Materials, 2014, 66, 214-221.	3.2	75

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19	Surface scaling of CO ₂ -cured concrete exposed to freeze-thaw cycles. Journal of CO ₂ Utilization, 2018, 27, 137-144.	3.3	75
20	Production of cement-free construction blocks from industry wastes. Journal of Cleaner Production, 2016, 137, 1339-1346.	4.6	62
21	Integration of carbon sequestration into curing process of precast concrete. Canadian Journal of Civil Engineering, 2010, 37, 302-310.	0.7	61
22	Biocement production from silicon-rich plant residues: Perspectives and future potential in Canada. Biosystems Engineering, 2011, 110, 351-362.	1.9	60
23	Reaction Products in Carbonation-Cured Lightweight Concrete. Journal of Materials in Civil Engineering, 2013, 25, 799-809.	1.3	53
24	Carbonated Ladle Slag Fines for Carbon Uptake and Sand Substitute. Journal of Materials in Civil Engineering, 2009, 21, 657-665.	1.3	49
25	Durability of Fiberglass Composite Sheet Piles in Water. Journal of Composites for Construction, 2002, 6, 280-287.	1.7	48
26	Microstructure of extruded cement-bonded fiberboard. Cement and Concrete Research, 2001, 31, 1153-1161.	4.6	47
27	Flue gas carbonation of cement-based building products. Journal of CO ₂ Utilization, 2020, 37, 309-319.	3.3	47
28	Carbonation and hydration behavior of EAF and BOF steel slag binders. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3075-3085.	1.3	45
29	Microstructure of cement paste subject to ambient pressure carbonation curing. Construction and Building Materials, 2021, 296, 123652.	3.2	45
30	Ambient pressure carbonation curing of reinforced concrete for CO ₂ utilization and corrosion resistance. Journal of CO ₂ Utilization, 2022, 56, 101861.	3.3	45
31	Flue gas carbonation curing of cement paste and concrete at ambient pressure. Journal of Cleaner Production, 2021, 313, 127943.	4.6	39
32	Matrix cracking and interface debonding in fiber-reinforced cement-matrix composites. Advanced Cement Based Materials, 1993, 1, 55-66.	0.4	36
33	Investigation of Near Surface Mounted Method for Shear Rehabilitation of Reinforced Concrete Beams Using Fiber Reinforced Polymer Composites. Journal of Composites for Construction, 2016, 20, .	1.7	34
34	Maximizing CO ₂ sequestration in cement-bonded fiberboards through carbonation curing. Construction and Building Materials, 2019, 213, 51-60.	3.2	34
35	Weathering Carbonation Behavior of Concrete Subject to Early-Age Carbonation Curing. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	34
36	Behavior of Reinforced Concrete Beams Strengthened in Shear Using L-Shaped CFRP Plates: Experimental Investigation. Journal of Composites for Construction, 2014, 18, .	1.7	32

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37	Production of cleaner high-strength cementing material using steel slag under elevated-temperature carbonation. <i>Journal of Cleaner Production</i> , 2022, 342, 130948.	4.6	32
38	Strengthening of Preloaded RC Beams Using Hybrid Carbon Sheets. <i>Journal of Composites for Construction</i> , 2007, 11, 299-307.	1.7	30
39	Deflection Creep of Pultruded Composite Sheet Piling. <i>Journal of Composites for Construction</i> , 2004, 8, 471-479.	1.7	27
40	Influence of moisture content on CO ₂ uptake in lightweight concrete subject to early carbonation. <i>Journal of Sustainable Cement-Based Materials</i> , 2013, 2, 144-160.	1.7	26
41	Recycling combustion ash for sustainable cement production: A critical review with data-mining and time-series predictive models. <i>Construction and Building Materials</i> , 2016, 123, 673-689.	3.2	26
42	Effect of Carbonation Mixing on CO ₂ Uptake and Strength Gain in Concrete. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	26
43	Pilot production of steel slag masonry blocks. <i>Canadian Journal of Civil Engineering</i> , 2018, 45, 537-546.	0.7	26
44	Converting ladle slag into high-strength cementing material by flue gas carbonation at different temperatures. <i>Resources, Conservation and Recycling</i> , 2021, 174, 105819.	5.3	25
45	Use of sandstone powder as a mineral additive for concrete. <i>Construction and Building Materials</i> , 2018, 186, 276-286.	3.2	24
46	Durability of Wet Bond of Hybrid Laminates to Cast-in-Place Concrete. <i>Journal of Composites for Construction</i> , 2010, 14, 209-216.	1.7	23
47	Exploring switchgrass and hardwood combustion on excess air and ash fouling/slugging potential: Laboratory combustion test and thermogravimetric kinetic analysis. <i>Energy Conversion and Management</i> , 2015, 97, 409-419.	4.4	23
48	Early Age Carbonation Heat and Products of Tricalcium Silicate Paste Subject to Carbon Dioxide Curing. <i>Materials</i> , 2018, 11, 730.	1.3	23
49	Flexural and Shear Rigidity of Composite Sheet Piles. <i>Journal of Composites for Construction</i> , 2003, 7, 348-355.	1.7	22
50	Effect of Carbonation Curing on Efflorescence Formation in Concrete Paver Blocks. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, .	1.3	22
51	Microstructure of Carbonation-Activated Steel Slag Binder. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	21
52	Green concrete made from MSWI residues derived eco-cement and bottom ash aggregates. <i>Construction and Building Materials</i> , 2021, 297, 123818.	3.2	20
53	Dynamic carbonation curing of fresh lightweight concrete. <i>Magazine of Concrete Research</i> , 2014, 66, 708-718.	0.9	18
54	Use of eco-admixture made from municipal solid waste incineration residues in concrete. <i>Cement and Concrete Composites</i> , 2020, 113, 103725.	4.6	18

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55	Wood fibre - cement composites by extrusion. Canadian Journal of Civil Engineering, 2000, 27, 543-552.	0.7	16
56	Characterization of carbonation-cured cement paste using X-ray photoelectron spectroscopy. Construction and Building Materials, 2018, 168, 598-605.	3.2	16
57	Recycling of switchgrass combustion ash in cement: Characteristics and pozzolanic activity with chemical accelerators. Construction and Building Materials, 2014, 73, 472-478.	3.2	15
58	Early carbonation behavior of high-volume dolomite powder-cement based materials. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 541-549.	0.4	14
59	Carbonation Curing of Concretes in a Flexible Enclosure under Ambient Pressure. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	14
60	A New CO2 Sequestration Process via Concrete Products Production. , 2006, , .		12
61	Early carbonation for hollow-core concrete slab curing and carbon dioxide recycling. Materials and Structures/Materiaux Et Constructions, 2015, 48, 307-319.	1.3	12
62	Improving Freeze-Thaw Resistance and Strength Gain of Roller Compacted Fly Ash Concretes with Modified Absorbent Polymer. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	12
63	Synthesis of waste-based carbonation cement. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4679-4690.	1.3	11
64	Improving concrete resistance to low temperature sulfate attack through carbonation curing. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	1.3	11
65	Dimensional stability of cement paste and concrete subject to early-age carbonation curing. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	1.3	11
66	Analytical Design Model for Reinforced-Concrete Beams Strengthened in Shear Using L-Shaped CFRP Plates. Journal of Composites for Construction, 2014, 18, 04013024.	1.7	10
67	Interface Behavior in Steel Fiber/Cement Composites under Tension. Journal of Engineering Mechanics - ASCE, 1998, 124, 1037-1044.	1.6	9
68	Low temperature synthesis of cement from ladle slag and fly ash. Journal of Sustainable Cement-Based Materials, 2016, 5, 247-258.	1.7	9
69	Characterization of a Pultruded FRP Sheet Pile for Waterfront Retaining Structures. Journal of Materials in Civil Engineering, 2006, 18, 626-633.	1.3	8
70	Carbon Dioxide-Activated Steel Slag for Slag-Bonded Wallboard Application. Journal of Materials in Civil Engineering, 2015, 27, .	1.3	8
71	Moment Capacities and Deflection Limits of PFRP Sheet Piles. Journal of Composites for Construction, 2006, 10, 520-528.	1.7	7
72	Steel slag-bonded strand board as a carbon-negative building product. Construction and Building Materials, 2022, 340, 127695.	3.2	7

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73	Early carbonation behaviour of no-clinker steel slag binder. <i>Advances in Cement Research</i> , 2013, 25, 342-351.	0.7	6
74	Performance of eco-concrete made from waste-derived eco-cement. <i>Journal of Cleaner Production</i> , 2021, 289, 125758.	4.6	6
75	Optimized process window for fresh concrete carbonation curing. <i>Canadian Journal of Civil Engineering</i> , 2014, 41, 986-994.	0.7	5
76	Characterising cement carbonation curing using non-contact electrical resistivity measurement. <i>Advances in Cement Research</i> , 2015, 27, 214-224.	0.7	5
77	Pseudo-dynamic carbonation for concrete curing and carbon storage. <i>International Journal of Materials and Structural Integrity</i> , 2015, 9, 21.	0.1	3
78	Optimization of Switchgrass Combustion for Simultaneous Production of Energy and Pozzolan. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04015040.	1.3	3
79	Modelling of Constitutive Relationship of Steel Fiber-Concrete Interface. <i>Studies in Applied Mechanics</i> , 1995, , 227-254.	0.4	2
80	Evaluation of corrosion resistance of precast reinforced concrete subjected to early-age ambient pressure carbonation curing by accelerated impressed current method. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 592-608.	1.7	2
81	Low temperature response of pultruded composites at saturation. <i>International Journal of Materials and Product Technology</i> , 2007, 28, 46.	0.1	1
82	Feasibility Study on Replacing Steam by Carbon Dioxide for Concrete Masonry Units Curing. , 2014, , 53-69.		0