Yixin Shao

List of Publications by Year
in descending order

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82	4,547	126907	102487
papers	citations	33 h-index	66 g-index

82	82	82	2206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of corrosion resistance of precast reinforced concrete subjected to early-age ambient pressure carbonation curing by accelerated impressed current method. Journal of Sustainable Cement-Based Materials, 2023, 12, 592-608.	3.1	2
2	Ambient pressure carbonation curing of reinforced concrete for CO2 utilization and corrosion resistance. Journal of CO2 Utilization, 2022, 56, 101861.	6.8	45
3	Dimensional stability of cement paste and concrete subject to early-age carbonation curing. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	11
4	Production of cleaner high-strength cementing material using steel slag under elevated-temperature carbonation. Journal of Cleaner Production, 2022, 342, 130948.	9.3	32
5	Steel slag-bonded strand board as a carbon-negative building product. Construction and Building Materials, 2022, 340, 127695.	7.2	7
6	Improving concrete resistance to low temperature sulfate attack through carbonation curing. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	11
7	Performance of eco-concrete made from waste-derived eco-cement. Journal of Cleaner Production, 2021, 289, 125758.	9.3	6
8	Carbonation Curing of Concretes in a Flexible Enclosure under Ambient Pressure. Journal of Materials in Civil Engineering, 2021, 33, .	2.9	14
9	Microstructure of cement paste subject to ambient pressure carbonation curing. Construction and Building Materials, 2021, 296, 123652.	7.2	45
10	Green concrete made from MSWI residues derived eco-cement and bottom ash aggregates. Construction and Building Materials, 2021, 297, 123818.	7.2	20
11	Flue gas carbonation curing of cement paste and concrete at ambient pressure. Journal of Cleaner Production, 2021, 313, 127943.	9.3	39
12	Converting ladle slag into high-strength cementing material by flue gas carbonation at different temperatures. Resources, Conservation and Recycling, 2021, 174, 105819.	10.8	25
13	Weathering Carbonation Behavior of Concrete Subject to Early-Age Carbonation Curing. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	34
14	Use of eco-admixture made from municipal solid waste incineration residues in concrete. Cement and Concrete Composites, 2020, 113, 103725.	10.7	18
15	Flue gas carbonation of cement-based building products. Journal of CO2 Utilization, 2020, 37, 309-319.	6.8	47
16	Effect of Carbonation Curing on Efflorescence Formation in Concrete Paver Blocks. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	22
17	Production of eco-cement exclusively from municipal solid waste incineration residues. Resources, Conservation and Recycling, 2019, 149, 332-342.	10.8	79
18	Maximizing CO2 sequestration in cement-bonded fiberboards through carbonation curing. Construction and Building Materials, 2019, 213, 51-60.	7.2	34

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19	Pilot production of steel slag masonry blocks. Canadian Journal of Civil Engineering, 2018, 45, 537-546.	1.3	26
20	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, .	2.9	12
21	Characterization of carbonation-cured cement paste using X-ray photoelectron spectroscopy. Construction and Building Materials, 2018, 168, 598-605.	7.2	16
22	Microstructure of Carbonation-Activated Steel Slag Binder. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	21
23	Use of sandstone powder as a mineral additive for concrete. Construction and Building Materials, 2018, 186, 276-286.	7.2	24
24	Early Age Carbonation Heat and Products of Tricalcium Silicate Paste Subject to Carbon Dioxide Curing. Materials, 2018, 11, 730.	2.9	23
25	Surface scaling of CO2-cured concrete exposed to freeze-thaw cycles. Journal of CO2 Utilization, 2018, 27, 137-144.	6.8	75
26	Production of carbonate aggregates using steel slag and carbon dioxide for carbon-negative concrete. Journal of CO2 Utilization, 2017, 18, 125-138.	6.8	90
27	Review on carbonation curing of cement-based materials. Journal of CO2 Utilization, 2017, 21, 119-131.	6.8	398
28	Effect of Carbonation Mixing on CO2 Uptake and Strength Gain in Concrete. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	26
29	Production of cement-free construction blocks from industry wastes. Journal of Cleaner Production, 2016, 137, 1339-1346.	9.3	62
30	Effect of early carbonation curing on chloride penetration and weathering carbonation in concrete. Construction and Building Materials, 2016, 123, 516-526.	7.2	124
31	Recycling combustion ash for sustainable cement production: A critical review with data-mining and time-series predictive models. Construction and Building Materials, 2016, 123, 673-689.	7.2	26
32	Carbonation Curing of Precast Fly Ash Concrete. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	82
33	Synthesis of waste-based carbonation cement. Materials and Structures/Materiaux Et Constructions, 2016, 49, 4679-4690.	3.1	11
34	Low temperature synthesis of cement from ladle slag and fly ash. Journal of Sustainable Cement-Based Materials, 2016, 5, 247-258.	3.1	9
35	Early age carbonation curing for precast reinforced concretes. Construction and Building Materials, 2016, 113, 134-143.	7.2	124
36	Investigation of Near Surfaceâ€“Mounted Method for Shear Rehabilitation of Reinforced Concrete Beams Using Fiber Reinforcedâ€“Polymer Composites. Journal of Composites for Construction, 2016, 20, .	3.2	34

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37	Early carbonation behavior of high-volume dolomite powder-cement based materials. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 541-549.	1.0	14
38	Pseudo-dynamic carbonation for concrete curing and carbon storage. International Journal of Materials and Structural Integrity, 2015, 9, 21.	0.1	3
39	Carbonation and hydration behavior of EAF and BOF steel slag binders. Materials and Structures/Materiaux Et Constructions, 2015, 48, 3075-3085.	3.1	45
40	Characterising cement carbonation curing using non-contact electrical resistivity measurement. Advances in Cement Research, 2015, 27, 214-224.	1.6	5
41	Early carbonation curing of concrete masonry units with Portland limestone cement. Cement and Concrete Composites, 2015, 62, 168-177.	10.7	110
42	Exploring switchgrass and hardwood combustion on excess air and ash fouling/slagging potential: Laboratory combustion test and thermogravimetric kinetic analysis. Energy Conversion and Management, 2015, 97, 409-419.	9.2	23
43	Optimization of Switchgrass Combustion for Simultaneous Production of Energy and Pozzolan. Journal of Materials in Civil Engineering, 2015, 27, 04015040.	2.9	3
44	Carbon Dioxideâ€“Activated Steel Slag for Slag-Bonded Wallboard Application. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	8
45	High-strength KOBM steel slag binder activated by carbonation. Construction and Building Materials, 2015, 99, 175-183.	7.2	143
46	Early carbonation for hollow-core concrete slab curing and carbon dioxide recycling. Materials and Structures/Materiaux Et Constructions, 2015, 48, 307-319.	3.1	12
47	Mathematical modeling of CO 2 uptake by concrete during accelerated carbonation curing. Cement and Concrete Research, 2015, 67, 1-10.	11.0	156
48	Behavior of Reinforced Concrete Beams Strengthened in Shear Using L-Shaped CFRP Plates: Experimental Investigation. Journal of Composites for Construction, 2014, 18, .	3.2	32
49	Dynamic carbonation curing of fresh lightweight concrete. Magazine of Concrete Research, 2014, 66, 708-718.	2.0	18
50	Optimized process window for fresh concrete carbonation curing. Canadian Journal of Civil Engineering, 2014, 41, 986-994.	1.3	5
51	Recycling of switchgrass combustion ash in cement: Characteristics and pozzolanic activity with chemical accelerators. Construction and Building Materials, 2014, 73, 472-478.	7.2	15
52	Accelerated Carbonation of Portland Limestone Cement. Journal of Materials in Civil Engineering, 2014, 26, 117-124.	2.9	89
53	Analytical Design Model for Reinforced-Concrete Beams Strengthened in Shear Using L-Shaped CFRP Plates. Journal of Composites for Construction, 2014, 18, 04013024.	3.2	10
54	Carbon dioxide activated ladle slag binder. Construction and Building Materials, 2014, 66, 214-221.	7.2	75

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55	Feasibility Study on Replacing Steam by Carbon Dioxide for Concrete Masonry Units Curing. , 2014, , 53-69.		0
56	Reaction Products in Carbonation-Cured Lightweight Concrete. Journal of Materials in Civil Engineering, 2013, 25, 799-809.	2.9	53
57	Early carbonation behaviour of no-clinker steel slag binder. Advances in Cement Research, 2013, 25, 342-351.	1.6	6
58	Influence of moisture content on CO₂uptake in lightweight concrete subject to early carbonation. Journal of Sustainable Cement-Based Materials, 2013, 2, 144-160.	3.1	26
59	Carbonation Curing versus Steam Curing for Precast Concrete Production. Journal of Materials in Civil Engineering, 2012, 24, 1221-1229.	2.9	155
60	Microstructure of cement paste subject to early carbonation curing. Cement and Concrete Research, 2012, 42, 186-193.	11.0	388
61	Durability of concrete pipes subjected to combined steam and carbonation curing. Construction and Building Materials, 2011, 25, 3345-3355.	7.2	173
62	Biocement production from silicon-rich plant residues: Perspectives and future potential in Canada. Biosystems Engineering, 2011, 110, 351-362.	4.3	60
63	Durability of Wet Bond of Hybrid Laminates to Cast-in-Place Concrete. Journal of Composites for Construction, 2010, 14, 209-216.	3.2	23
64	Carbonation Curing of Slag-Cement Concrete for Binding CO2 and Improving Performance. Journal of Materials in Civil Engineering, 2010, 22, 296-304.	2.9	85
65	Integration of carbon sequestration into curing process of precast concrete. Canadian Journal of Civil Engineering, 2010, 37, 302-310.	1.3	61
66	Carbonated Ladle Slag Fines for Carbon Uptake and Sand Substitute. Journal of Materials in Civil Engineering, 2009, 21, 657-665.	2.9	49
67	Strengthening of Preloaded RC Beams Using Hybrid Carbon Sheets. Journal of Composites for Construction, 2007, 11, 299-307.	3.2	30
68	Low temperature response of pultruded composites at saturation. International Journal of Materials and Product Technology, 2007, 28, 46.	0.2	1
69	CO2 sequestration using calcium-silicate concrete. Canadian Journal of Civil Engineering, 2006, 33, 776-784.	1.3	101
70	A New CO2 Sequestration Process via Concrete Products Production. , 2006, , .		12
71	Assessing the Carbonation Behavior of Cementitious Materials. Journal of Materials in Civil Engineering, 2006, 18, 768-776.	2.9	123
72	Moment Capacities and Deflection Limits of PFRP Sheet Piles. Journal of Composites for Construction, 2006, 10, 520-528.	3.2	7

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73	Characterization of a Pultruded FRP Sheet Pile for Waterfront Retaining Structures. Journal of Materials in Civil Engineering, 2006, 18, 626-633.	2.9	8
74	Deflection Creep of Pultruded Composite Sheet Piling. Journal of Composites for Construction, 2004, 8, 471-479.	3.2	27
75	Flexural and Shear Rigidity of Composite Sheet Piles. Journal of Composites for Construction, 2003, 7, 348-355.	3.2	22
76	Durability of Fiberglass Composite Sheet Piles in Water. Journal of Composites for Construction, 2002, 6, 280-287.	3.2	48
77	Microstructure of extruded cement-bonded fiberboard. Cement and Concrete Research, 2001, 31, 1153-1161.	11.0	47
78	Studies on concrete containing ground waste glass. Cement and Concrete Research, 2000, 30, 91-100.	11.0	539
79	Wood fibre - cement composites by extrusion. Canadian Journal of Civil Engineering, 2000, 27, 543-552.	1.3	16
80	Interface Behavior in Steel Fiber/Cement Composites under Tension. Journal of Engineering Mechanics - ASCE, 1998, 124, 1037-1044.	2.9	9
81	Modelling of Constitutive Relationship of Steel Fiber-Concrete Interface. Studies in Applied Mechanics, 1995, , 227-254.	0.4	2
82	Matrix cracking and interface debonding in fiber-reinforced cement-matrix composites. Advanced Cement Based Materials, 1993, 1, 55-66.	0.3	36