Caijun Shi

List of Publications by Year
in descending order

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57	10,345	71004	156644
papers	citations	43 h-index	58 g-index

59	59	59	5198
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Advances in immobilization of radionuclide wastes by alkali activated cement and related materials. Cement and Concrete Composites, 2022, 126, 104377.	4.6	21
2	Reaction mechanism of sulfate attack on alkali-activated slag/fly ash cements. Construction and Building Materials, 2022, 318, 126052.	3.2	34
3	The effect of different types of class F fly ashes on the mechanical properties of geopolymers cured at ambient environment. Cement and Concrete Composites, 2022, 130, 104528.	4.6	30
4	Chloride binding behavior of synthesized reaction products in alkali-activated slag. Composites Part B: Engineering, 2022, 238, 109919.	5.9	20
5	Mechanical properties and microstructure of circulating fluidized bed fly ash and red mud-based geopolymer. Construction and Building Materials, 2022, 340, 127599.	3.2	18
6	New insights into the effect of gypsum on hydration and elasticity development of C3S paste during setting. Cement and Concrete Research, 2022, 159, 106860.	4.6	17
7	Flexural behavior of alkali-activated slag-based concrete beams. Engineering Structures, 2021, 229, 111644.	2.6	23
8	Effect of Na2O concentration and water/binder ratio on carbonation of alkali-activated slag/fly ash cements. Construction and Building Materials, 2021, 269, 121258.	3.2	49
9	Rheology of alkali-activated materials: A review. Cement and Concrete Composites, 2021, 121, 104061.	4.6	106
10	Relationship between the composition and hydration-microstructure-mechanical properties of cement-metakaolin-limestone ternary system. Construction and Building Materials, 2021, 302, 124175.	3.2	10
11	Evolution of elastic behavior of alite paste at early hydration stages. Journal of the American Ceramic Society, 2020, 103, 6490-6504.	1.9	17
12	Mechanical and fracture properties of ultra-high performance geopolymer concrete: Effects of steel fiber and silica fume. Cement and Concrete Composites, 2020, 112, 103665.	4.6	101
13	Development of ultra-high performance geopolymer concrete (UHPGC): Influence of steel fiber on mechanical properties. Cement and Concrete Composites, 2020, 112, 103670.	4.6	82
14	Shear tests on reinforced slag-based geopolymer concrete beams with transverse reinforcement. Engineering Structures, 2020, 219, 110966.	2.6	34
15	An overview on the efficiency of different pretreatment techniques for recycled concrete aggregate. Journal of Cleaner Production, 2020, 263, 121264.	4.6	81
16	Chloride binding of alkali-activated slag/fly ash cements. Construction and Building Materials, 2019, 226, 21-31.	3.2	73
17	Carbonation induced phase evolution in alkali-activated slag/fly ash cements: The effect of silicate modulus of activators. Construction and Building Materials, 2019, 223, 566-582.	3.2	64
18	Effects of applied voltage on chloride binding and microstructure of cement pastes subjected to chloride solutions. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	1.3	3

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19	Compressive strength, pore structure and chloride transport properties of alkali-activated slag/fly ash mortars. Cement and Concrete Composites, 2019, 104, 103392.	4.6	104
20	A review on mixture design methods for geopolymer concrete. Composites Part B: Engineering, 2019, 178, 107490.	5.9	164
21	Autogenous and drying shrinkage of alkaliâ€activated slag mortars. Journal of the American Ceramic Society, 2019, 102, 4963-4975.	1.9	60
22	Investigation of mechanical properties and shrinkage of ultra-high performance concrete: Influence of steel fiber content and shape. Composites Part B: Engineering, 2019, 174, 107021.	5.9	217
23	Recent progress in low-carbon binders. Cement and Concrete Research, 2019, 122, 227-250.	4.6	391
24	A critical review of waste glass powder â€“ Multiple roles of utilization in cement-based materials and construction products. Journal of Environmental Management, 2019, 242, 440-449.	3.8	162
25	Understanding the roles of activators towards setting and hardening control of alkali-activated slag cement. Composites Part B: Engineering, 2019, 171, 34-45.	5.9	116
26	An overview on the reuse of waste glasses in alkali-activated materials. Resources, Conservation and Recycling, 2019, 144, 297-309.	5.3	145
27	Mixture design of concrete using simplex centroid design method. Cement and Concrete Composites, 2018, 89, 76-88.	4.6	85
28	Design of high performance concrete with multiple performance requirements for #2 Dongting Lake Bridge. Construction and Building Materials, 2018, 165, 825-832.	3.2	14
29	Alkali-silica reaction in waterglass-activated slag mortars incorporating fly ash and metakaolin. Cement and Concrete Research, 2018, 108, 10-19.	4.6	103
30	How do fiber shape and matrix composition affect fiber pullout behavior and flexural properties of UHPC?. Cement and Concrete Composites, 2018, 90, 193-201.	4.6	172
31	Synthesis and characteristics of pectiniform polyurethaneâ€modified polycarboxylate at room temperature. Journal of Applied Polymer Science, 2018, 135, 45873.	1.3	3
32	Effect of mineral admixtures on the structural build-up of cement paste. Construction and Building Materials, 2018, 160, 117-126.	3.2	103
33	Effects of alkali dosage and silicate modulus on alkali-silica reaction in alkali-activated slag mortars. Cement and Concrete Research, 2018, 111, 104-115.	4.6	79
34	A mixture proportioning method for the development of performance-based alkali-activated slag-based concrete. Cement and Concrete Composites, 2018, 93, 163-174.	4.6	119
35	Comparative study on flexural properties of ultra-high performance concrete with supplementary cementitious materials under different curing regimes. Construction and Building Materials, 2017, 136, 307-313.	3.2	137
36	Static and dynamic compressive properties of ultra-high performance concrete (UHPC) with hybrid steel fiber reinforcements. Cement and Concrete Composites, 2017, 79, 148-157.	4.6	296

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37	Effect of alkali dosage on alkali-silica reaction in sodium hydroxide activated slag mortars. Construction and Building Materials, 2017, 143, 16-23.	3.2	66
38	On the measurement of evolution of structural build-up of cement paste with time by static yield stress test vs. small amplitude oscillatory shear test. Cement and Concrete Research, 2017, 99, 183-189.	4.6	174
39	Small amplitude oscillatory shear technique to evaluate structural build-up of cement paste. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	86
40	Durability of alkali-activated materials in aggressive environments: A review on recent studies. Construction and Building Materials, 2017, 152, 598-613.	3.2	225
41	Microstructural changes in alkali-activated slag mortars induced by accelerated carbonation. Cement and Concrete Research, 2017, 100, 214-226.	4.6	246
42	Composition design and performance of alkali-activated cements. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	104
43	Effects of Chloride Ion Binding on Microstructure of Cement Pastes. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	43
44	Uniaxial Compression Behavior of Ultra-High Performance Concrete with Hybrid Steel Fiber. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	103
45	Effects of steel fiber content and shape on mechanical properties of ultra high performance concrete. Construction and Building Materials, 2016, 103, 8-14.	3.2	502
46	A review on ultra high performance concrete: Part I. Raw materials and mixture design. Construction and Building Materials, 2015, 101, 741-751.	3.2	794
47	A review on alkali-aggregate reactions in alkali-activated mortars/concretes made with alkali-reactive aggregates. Materials and Structures/Materiaux Et Constructions, 2015, 48, 621-628.	1.3	84
48	Comparison of alkaliâ€“silica reactions in alkali-activated slag and Portland cement mortars. Materials and Structures/Materiaux Et Constructions, 2015, 48, 743-751.	1.3	59
49	Advances in understanding alkali-activated materials. Cement and Concrete Research, 2015, 78, 110-125.	4.6	954
50	A review on ultra high performance concrete: Part II. Hydration, microstructure and properties. Construction and Building Materials, 2015, 96, 368-377.	3.2	554
51	A review on testing methods for autogenous shrinkage measurement of cement-based materials. Journal of Sustainable Cement-Based Materials, 2013, 2, 161-171.	1.7	10
52	New cements for the 21st century: The pursuit of an alternative to Portland cement. Cement and Concrete Research, 2011, 41, 750-763.	4.6	1,106
53	Chloride binding of cement-based materials subjected to external chloride environment â€“ A review. Construction and Building Materials, 2009, 23, 1-13.	3.2	586
54	A review on the use of waste glasses in the production of cement and concrete. Resources, Conservation and Recycling, 2007, 52, 234-247.	5.3	383

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55	Characteristics and pozzolanic reactivity of glass powders. Cement and Concrete Research, 2005, 35, 987-993.	4.6	462
56	Some factors affecting early hydration of alkali-slag cements. Cement and Concrete Research, 1996, 26, 439-447.	4.6	119
57	A calorimetric study of early hydration of alkali-slag cements. Cement and Concrete Research, 1995, 25, 1333-1346.	4.6	326