Wang Qiang

List of Publications by Year
in descending order

67	3,843	34	61
papers	citations	h-index	g-index
		117453	123241

67	67	67	1649
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydration properties of basic oxygen furnace steel slag. Construction and Building Materials, 2010, 24, 1134-1140.	3.2	265
2	Influence of steel slag on mechanical properties and durability of concrete. Construction and Building Materials, 2013, 47, 1414-1420.	3.2	225
3	Inhibition mechanisms of steel slag on the early-age hydration of cement. Cement and Concrete Research, 2021, 140, 106283.	4.6	210
4	The soundness of steel slag with different free CaO and MgO contents. Construction and Building Materials, 2017, 151, 138-146.	3.2	190
5	A discussion on improving hydration activity of steel slag by altering its mineral compositions. Journal of Hazardous Materials, 2011, 186, 1070-1075.	6.5	167
6	The role of fly ash microsphere in the microstructure and macroscopic properties of high-strength concrete. Cement and Concrete Composites, 2017, 83, 125-137.	4.6	161
7	Cementitious properties of super-fine steel slag. Powder Technology, 2013, 245, 35-39.	2.1	137
8	Effect of blended steel slagâ€“GBFS mineral admixture on hydration and strength of cement. Construction and Building Materials, 2012, 35, 8-14.	3.2	132
9	Comparison of the properties between high-volume fly ash concrete and high-volume steel slag concrete under temperature matching curing condition. Construction and Building Materials, 2015, 98, 649-655.	3.2	121
10	Reuse of hazardous electrolytic manganese residue: Detailed leaching characterization and novel application as a cementitious material. Resources, Conservation and Recycling, 2020, 154, 104645.	5.3	105
11	The influence of steel slag on the hydration of cement during the hydration process of complex binder. Science China Technological Sciences, 2011, 54, 388-394.	2.0	102
12	Influence of classified steel slag with particle sizes smaller than 20 Î¼m on the properties of cement and concrete. Construction and Building Materials, 2016, 123, 601-610.	3.2	101
13	Characteristics and reactivity of ferronickel slag powder. Construction and Building Materials, 2017, 156, 773-789.	3.2	100
14	Effects of ultra-fine ground granulated blast-furnace slag on initial setting time, fluidity and rheological properties of cement pastes. Powder Technology, 2019, 345, 54-63.	2.1	93
15	Strength Mechanism of Cement-Asphalt Mortar. Journal of Materials in Civil Engineering, 2011, 23, 1353-1359.	1.3	88
16	Evaluation of alkali-activated blast furnace ferronickel slag as a cementitious material: Reaction mechanism, engineering properties and leaching behaviors. Construction and Building Materials, 2018, 188, 860-873.	3.2	82
17	Properties of high-volume limestone powder concrete under standard curing and steam-curing conditions. Powder Technology, 2016, 301, 16-25.	2.1	76
18	New insights into the early reaction of NaOH-activated slag in the presence of CaSO4. Composites Part B: Engineering, 2020, 198, 108207.	5.9	72

#	ARTICLE	IF	CITATIONS
19	Hydration mechanisms of composite binders containing phosphorus slag at different temperatures. Construction and Building Materials, 2017, 147, 720-732.	3.2	69
20	A comprehensive overview of fibre-reinforced gypsum-based composites (FRGCs) in the construction field. Composites Part B: Engineering, 2021, 205, 108540.	5.9	65
21	Investigation on the poor fluidity of electrically conductive cement-graphite paste: Experiment and simulation. Materials and Design, 2019, 169, 107679.	3.3	64
22	The differences among the roles of ground fly ash in the paste, mortar and concrete. Construction and Building Materials, 2015, 93, 172-179.	3.2	62
23	Study on the improvement of the waterproof and mechanical properties of hemihydrate phosphogypsum-based foam insulation materials. Construction and Building Materials, 2020, 230, 117014.	3.2	58
24	Reuse of copper slag as a supplementary cementitious material: Reactivity and safety. Resources, Conservation and Recycling, 2020, 162, 105037.	5.3	58
25	A novel gypsum-based self-leveling mortar produced by phosphorus building gypsum. Construction and Building Materials, 2019, 226, 11-20.	3.2	56
26	Long-term properties of concrete containing limestone powder. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	55
27	Reuse of phosphogypsum as hemihydrate gypsum: The negative effect and content control of H3PO4. Resources, Conservation and Recycling, 2021, 174, 105830.	5.3	53
28	Influence of the initial moist curing time on the sulfate attack resistance of concretes with different binders. Construction and Building Materials, 2017, 144, 541-551.	3.2	48
29	Influence of initial alkalinity on the hydration of steel slag. Science China Technological Sciences, 2012, 55, 3378-3387.	2.0	46
30	The microstructure of 4-year-old hardened cement-fly ash paste. Construction and Building Materials, 2012, 29, 114-119.	3.2	44
31	Recent advances in chemical admixtures for improving the workability of alkali-activated slag-based material systems. Construction and Building Materials, 2021, 272, 121647.	3.2	41
32	A comparison of early hydration properties of cementâ€"steel slag binder and cementâ€"limestone powder binder. Journal of Thermal Analysis and Calorimetry, 2014, 115, 193-200.	2.0	39
33	Influence of Curing Time on the Drying Shrinkage of Concretes with Different Binders and Water-to-Binder Ratios. Advances in Materials Science and Engineering, 2017, 2017, 1-10.	1.0	39
34	Hydration properties of steel slag under autoclaved condition. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1241-1248.	2.0	36
35	Micromechanical analysis of interfacial transition zone in alkali-activated fly ash-slag concrete. Cement and Concrete Composites, 2021, 119, 103990.	4.6	36
36	Early hydration properties of composite binder containing limestone powder with different finenesses. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1141-1151.	2.0	35

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37	Value-added utilization of copper slag to enhance the performance of magnesium potassium phosphate cement. Resources, Conservation and Recycling, 2022, 180, 106212.	5.3	34
38	An explanation for the negative effect of elevated temperature at early ages on the late-age strength of concrete. Journal of Materials Science, 2011, 46, 7279-7288.	1.7	33
39	Compressive strength development and microstructure of cement-asphalt mortar. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 998-1003.	0.4	32
40	Research on the resistance to saline soil erosion of high-volume mineral admixture steam-cured concrete. Construction and Building Materials, 2019, 202, 1-10.	3.2	30
41	Influence of high-volume electric furnace nickel slag and phosphorous slag on the properties of massive concrete. Journal of Thermal Analysis and Calorimetry, 2018, 131, 873-885.	2.0	29
42	The effects of cations and concentration on reaction mechanism of alkali-activated blast furnace ferronickel slag. Composites Part B: Engineering, 2022, 236, 109825.	5.9	27
43	Design of high-volume fly ash concrete for a massive foundation slab. Magazine of Concrete Research, 2013, 65, 71-81.	0.9	24
44	ASR potential of nickel slag fine aggregate in blast furnace slag-fly ash geopolymer and Portland cement mortars. Construction and Building Materials, 2020, 262, 119990.	3.2	24
45	Activity index for steel slag. Magazine of Concrete Research, 2011, 63, 737-742.	0.9	22
46	An investigation on the anti-water properties of phosphorus building gypsum (PBG)-based mortar. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1575-1585.	2.0	22
47	Understanding the workability of alkali-activated phosphorus slag pastes: Effects of alkali dose and silicate modulus on early-age hydration reactions. Cement and Concrete Composites, 2022, 133, 104649.	4.6	22
48	The influence of high-temperature curing on the hydration characteristics of a cementâ€“GGBS binder. Advances in Cement Research, 2012, 24, 33-40.	0.7	20
49	Contributions of fly ash and ground granulated blast-furnace slag to the early hydration heat of composite binder at different curing temperatures. Advances in Cement Research, 2016, 28, 320-327.	0.7	20
50	The difference among the effects of high-temperature curing on the early hydration properties of different cementitious systems. Journal of Thermal Analysis and Calorimetry, 2014, 118, 51-58.	2.0	19
51	Influence of pre-curing time on the hydration of binder and the properties of concrete under steam curing condition. Journal of Thermal Analysis and Calorimetry, 2014, 118, 1505-1512.	2.0	18
52	Influence of ultra-fine slag and silica fume on properties of high-strength concrete. Magazine of Concrete Research, 2020, 72, 610-621.	0.9	16
53	Influence of elevated curing temperature on the properties of cement paste and concrete at the same hydration degree. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1344-1351.	0.4	14
54	Influence of alkali activators on the early hydration of cement-based binders under steam curing condition. Journal of Thermal Analysis and Calorimetry, 2017, 130, 1801-1816.	2.0	13

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55	Water absorption behaviour of concrete: Novel experimental findings and model characterization. Journal of Building Engineering, 2022, 53, 104602.	1.6	13
56	The influence of steel slag with high Al2O3 content on the initial hydration of cement. Science China Technological Sciences, 2013, 56, 3123-3128.	2.0	12
57	Influence of Steam Curing Method on the Performance of Concrete Containing a Large Portion of Mineral Admixtures. Advances in Materials Science and Engineering, 2017, 2017, 1-11.	1.0	12
58	Novel Foam Insulation Material Produced by Calcined Phosphogypsum and H2O2. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	12
59	A review of waste-containing building materials: Characterization of the heavy metal. Construction and Building Materials, 2021, 309, 125107.	3.2	12
60	Effects of Graphite on Electrically Conductive Cementitious Composite Properties: A Review. Materials, 2021, 14, 4798.	1.3	11
61	Influence of Steel Slag on the Workability of Concrete. Key Engineering Materials, 0, 539, 235-238.	0.4	6
62	A new understanding of the effect of filler minerals on the precipitation of synthetic Câ€"Sâ€"H. Journal of Materials Science, 2020, 55, 16455-16469.	1.7	6
63	Comparison of hydration properties between cement-GGBS-fly ash blended binder and cement-GGBS-steel slag blended binder. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 273-277.	0.4	5
64	The influence of mineral admixtures on bending strength of mortar on the premise of equal compressive strength. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 586-589.	0.4	2
65	Role of NaF on the performances of Î²-hemihydrate gypsum plaster. Journal of Building Engineering, 2022, 55, 104725.	1.6	2
66	Effects of Blended Steel Slag-Superfine Fly Ash Mineral Admixture and Ordinary Fly Ash on the Properties of Concrete. Materials Science Forum, 2013, 743-744, 323-328.	0.3	0
67	Activity Index of Steel Slag-GGBS Composite Mineral Admixture at Different W/B Ratios. Applied Mechanics and Materials, 0, 584-586, 1541-1544.	0.2	0