

# Jihui Zhao

## List of Publications by Year in descending order

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31  
papers

975  
citations

516710  
16  
h-index

454955  
30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-friendly geopolymer materials: A review of performance improvement, potential application and sustainability assessment. Journal of Cleaner Production, 2021, 307, 127085.	9.3	132
2	Research on mineral characteristics of converter steel slag and its comprehensive utilization of internal and external recycle. Journal of Cleaner Production, 2017, 156, 50-61.	9.3	130
3	Ultrafine grinding of fly ash with grinding aids: Impact on particle characteristics of ultrafine fly ash and properties of blended cement containing ultrafine fly ash. Construction and Building Materials, 2015, 78, 250-259.	7.2	87
4	Comparative study on the properties of three hydraulic lime mortar systems: Natural hydraulic lime mortar, cement-aerial lime-based mortar and slag-aerial lime-based mortar. Construction and Building Materials, 2018, 186, 42-52.	7.2	74
5	Effect of mechanical grinding on physical and chemical characteristics of circulating fluidized bed fly ash from coal gangue power plant. Construction and Building Materials, 2015, 101, 851-860.	7.2	67
6	Self-cementitious property of steel slag powder blended with gypsum. Construction and Building Materials, 2016, 113, 835-842.	7.2	64
7	Design and experimental study of a ternary blended cement containing high volume steel slag and blast-furnace slag based on Fuller distribution model. Construction and Building Materials, 2017, 140, 248-256.	7.2	47
8	Hydrophobic or superhydrophobic modification of cement-based materials: A systematic review. Composites Part B: Engineering, 2022, 243, 110104.	12.0	41
9	Influence of pozzolanic materials on the properties of natural hydraulic lime based mortars. Construction and Building Materials, 2020, 244, 118360.	7.2	31
10	Durability properties of sustainable alkali-activated cementitious materials as marine engineering material: A review. Materials Today Sustainability, 2022, 17, 100099.	4.1	30
11	Utilization of ladle furnace slag as cement partial replacement: Influences on the hydration and hardening properties of cement. Construction and Building Materials, 2021, 299, 124265.	7.2	29
12	Chloride ion binding effect and corrosion resistance of geopolymer materials prepared with seawater and coral sand. Construction and Building Materials, 2021, 309, 125126.	7.2	29
13	Synergistic enhancement effect of recycled fine powder (RFP) cement paste and carbonation on recycled aggregates performances and its mechanism. Journal of Cleaner Production, 2022, 344, 130848.	9.3	27
14	Influence of mechanical grinding on pozzolanic characteristics of circulating fluidized bed fly ash (CFA) and resulting consequences on hydration and hardening properties of blended cement. Journal of Thermal Analysis and Calorimetry, 2018, 132, 1459-1470.	3.6	24
15	Particle characteristics and hydration activity of ground granulated blast furnace slag powder containing industrial crude glycerol-based grinding aids. Construction and Building Materials, 2016, 104, 134-141.	7.2	22
16	Hydration properties and kinetic characteristics of blended cement containing lithium slag powder. Journal of Building Engineering, 2021, 39, 102287.	3.4	20
17	Comparison of Grinding Characteristics of Converter Steel Slag with and without Pretreatment and Grinding Aids. Applied Sciences (Switzerland), 2016, 6, 237.	2.5	17
18	Optimization of f-MgO/f-CaO phase in ladle furnace slag by air rapidly cooling. Materials Letters, 2020, 280, 128528.	2.6	16

#	ARTICLE	IF	CITATIONS
19	Characteristics and mechanism of modified triethanolamine as cement grinding aids. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 134-141.	1.0	15
20	Use of ladle furnace slag as supplementary cementitious material before and after modification by rapid air cooling: A comparative study of influence on the properties of blended cement paste. Construction and Building Materials, 2022, 314, 125434.	7.2	12
21	Assessment of the thermal and microstructural properties of metakaolin-air lime based materials at an early age. Applied Clay Science, 2020, 191, 105619.	5.2	11
22	Potential Effect of Surface Modified Nano-SiO <sub>2</sub> with PDDA on the Cement Paste Early Hydration. ChemistrySelect, 2020, 5, 3159-3163.	1.5	10
23	Exploration of hydration and durability properties of ferroaluminate cement with compare to Portland cement. Construction and Building Materials, 2022, 319, 126138.	7.2	8
24	Thermal and Mechanical Properties of SiO <sub>2</sub> Aerogel Incorporated Geopolymer Insulation Materials. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	7
25	The Influence of Water Reducing Agents on Early Hydration Property of Ferrite Aluminate Cement Paste. Crystals, 2021, 11, 731.	2.2	7
26	The hydration properties of blended cement containing ultrafine fly ash with particle size less than 17Å¼m from the circulating fluidized bed combustion of coal gangue. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2971-2984.	3.6	6
27	Gas Permeability Prediction of Mortar Samples Based on Different Methods. Crystals, 2022, 12, 581.	2.2	4
28	The Characteristics of the Phase Transition of Air-Quenched Ladle Furnace Slag. Jom, 2021, 73, 1071-1079.	1.9	3
29	Investigation of the Gas Breakthrough Pressure of Cement Mortar with Different Experimental Techniques. KSCE Journal of Civil Engineering, 2022, 26, 325-335.	1.9	3
30	Investigation on the Role of Steel Slag Powder in Blended Cement Based on Quartz Powder as Reference. Advances in Civil Engineering, 2021, 2021, 1-15.	0.7	2
31	Service Life Prediction of Shaft Sidewall Exposed to Sulfate Environment. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.8	0