

# Jihui Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6913648/publications.pdf>

Version: 2024-02-01

31  
papers

975  
citations

516561

16  
h-index

454834

30  
g-index

31  
all docs

31  
docs citations

31  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Eco-friendly geopolymers: A review of performance improvement, potential application and sustainability assessment. <i>Journal of Cleaner Production</i> , 2021, 307, 127085.	4.6	132
2	Research on mineral characteristics of converter steel slag and its comprehensive utilization of internal and external recycle. <i>Journal of Cleaner Production</i> , 2017, 156, 50-61.	4.6	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. <i>Construction and Building Materials</i> , 2015, 78, 250-259.	3.2	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. <i>Construction and Building Materials</i> , 2018, 186, 42-52.	3.2	74
5	Effect of mechanical grinding on physical and chemical characteristics of circulating fluidized bed fly ash from coal gangue power plant. <i>Construction and Building Materials</i> , 2015, 101, 851-860.	3.2	67
6	Self-cementitious property of steel slag powder blended with gypsum. <i>Construction and Building Materials</i> , 2016, 113, 835-842.	3.2	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. <i>Construction and Building Materials</i> , 2017, 140, 248-256.	3.2	47
8	Hydrophobic or superhydrophobic modification of cement-based materials: A systematic review. <i>Composites Part B: Engineering</i> , 2022, 243, 110104.	5.9	41
9	Influence of pozzolanic materials on the properties of natural hydraulic lime based mortars. <i>Construction and Building Materials</i> , 2020, 244, 118360.	3.2	31
10	Durability properties of sustainable alkali-activated cementitious materials as marine engineering material: A review. <i>Materials Today Sustainability</i> , 2022, 17, 100099.	1.9	30
11	Utilization of ladle furnace slag as cement partial replacement: Influences on the hydration and hardening properties of cement. <i>Construction and Building Materials</i> , 2021, 299, 124265.	3.2	29
12	Chloride ion binding effect and corrosion resistance of geopolymers prepared with seawater and coral sand. <i>Construction and Building Materials</i> , 2021, 309, 125126.	3.2	29
13	Synergistic enhancement effect of recycled fine powder (RFP) cement paste and carbonation on recycled aggregates performances and its mechanism. <i>Journal of Cleaner Production</i> , 2022, 344, 130848.	4.6	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. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1459-1470.	2.0	24
15	Particle characteristics and hydration activity of ground granulated blast furnace slag powder containing industrial crude glycerol-based grinding aids. <i>Construction and Building Materials</i> , 2016, 104, 134-141.	3.2	22
16	Hydration properties and kinetic characteristics of blended cement containing lithium slag powder. <i>Journal of Building Engineering</i> , 2021, 39, 102287.	1.6	20
17	Comparison of Grinding Characteristics of Converter Steel Slag with and without Pretreatment and Grinding Aids. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 237.	1.3	17
18	Optimization of f-MgO/f-CaO phase in ladle furnace slag by air rapidly cooling. <i>Materials Letters</i> , 2020, 280, 128528.	1.3	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.	0.4	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.	3.2	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.	2.6	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.	0.7	10
23	Exploration of hydration and durability properties of ferroaluminate cement with compare to Portland cement. Construction and Building Materials, 2022, 319, 126138.	3.2	8
24	Thermal and Mechanical Properties of SiO <sub>2</sub> Aerogel Incorporated Geopolymer Insulation Materials. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	7
25	The Influence of Water Reducing Agents on Early Hydration Property of Ferrite Aluminate Cement Paste. Crystals, 2021, 11, 731.	1.0	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.	2.0	6
27	Gas Permeability Prediction of Mortar Samples Based on Different Methods. Crystals, 2022, 12, 581.	1.0	4
28	The Characteristics of the Phase Transition of Air-Quenched Ladle Furnace Slag. Jom, 2021, 73, 1071-1079.	0.9	3
29	Investigation of the Gas Breakthrough Pressure of Cement Mortar with Different Experimental Techniques. KSCE Journal of Civil Engineering, 2022, 26, 325-335.	0.9	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.	0.4	2
31	Service Life Prediction of Shaft Sidewall Exposed to Sulfate Environment. Advances in Materials Science and Engineering, 2018, 2018, 1-12.	1.0	0