

# Jinyan Shi

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,250  
citations

331670

21  
h-index

361022

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

382  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study on full-volume slag alkali-activated mortars: Air-cooled blast furnace slag versus machine-made sand as fine aggregates. <i>Journal of Hazardous Materials</i> , 2021, 403, 123983.	12.4	100
2	New perspectives on utilization of $\text{CO}_2$ sequestration technologies in cement-based materials. <i>Construction and Building Materials</i> , 2021, 272, 121660.	7.2	100
3	A green ultra-lightweight chemically foamed concrete for building exterior: A feasibility study. <i>Journal of Cleaner Production</i> , 2021, 288, 125085.	9.3	94
4	Preparation and characterization of lightweight aggregate foamed geopolymer concretes aerated using hydrogen peroxide. <i>Construction and Building Materials</i> , 2020, 256, 119442.	7.2	79
5	Heat damage of concrete surfaces under steam curing and improvement measures. <i>Construction and Building Materials</i> , 2020, 252, 119104.	7.2	65
6	Effect of curing regime on long-term mechanical strength and transport properties of steam-cured concrete. <i>Construction and Building Materials</i> , 2020, 255, 119407.	7.2	62
7	Effects of steam curing regimes on the capillary water absorption of concrete: Prediction using multivariable regression models. <i>Construction and Building Materials</i> , 2020, 256, 119426.	7.2	46
8	Strength, microstructure and nanomechanical properties of recycled aggregate concrete containing waste glass powder and steel slag powder. <i>Journal of Cleaner Production</i> , 2022, 341, 130892.	9.3	46
9	Effects of curing methods of concrete after steam curing on mechanical strength and permeability. <i>Construction and Building Materials</i> , 2020, 256, 119441.	7.2	44
10	The roles of cenosphere in ultra-lightweight foamed geopolymer concrete (UFGC). <i>Ceramics International</i> , 2022, 48, 12884-12896.	4.8	43
11	Rheology control of self-consolidating cement-tailings grout for the feasible use in coal gangue-filled backfill. <i>Construction and Building Materials</i> , 2022, 316, 125836.	7.2	41
12	Recycling hazardous water treatment sludge in cement-based construction materials: Mechanical properties, drying shrinkage, and nano-scale characteristics. <i>Journal of Cleaner Production</i> , 2021, 290, 125832.	9.3	39
13	Multi-scale characteristics of magnesium potassium phosphate cement modified by metakaolin. <i>Ceramics International</i> , 2022, 48, 12467-12475.	4.8	39
14	Improvement mechanism of water resistance and volume stability of magnesium oxychloride cement: A comparison study on the influences of various gypsum. <i>Science of the Total Environment</i> , 2022, 829, 154546.	8.0	38
15	Physico-mechanical, thermal properties and durability of foamed geopolymer concrete containing cenospheres. <i>Construction and Building Materials</i> , 2022, 325, 126841.	7.2	36
16	Recycling air-cooled blast furnace slag in fiber reinforced alkali-activated mortar. <i>Powder Technology</i> , 2022, 407, 117686.	4.2	36
17	Properties evolution of high-early-strength cement paste and interfacial transition zone during steam curing process. <i>Construction and Building Materials</i> , 2020, 252, 119095.	7.2	35
18	Mechanical and permeability properties of polymer-modified concrete using hydrophobic agent. <i>Journal of Building Engineering</i> , 2020, 31, 101337.	3.4	33

#	ARTICLE	IF	CITATIONS
19	Effect of steam curing regimes on temperature and humidity gradient, permeability and microstructure of concrete. <i>Construction and Building Materials</i> , 2021, 281, 122562.	7.2	30
20	Utilization of desert sand in the production of sustainable cement-based materials: A critical review. <i>Construction and Building Materials</i> , 2022, 327, 127014.	7.2	30
21	Evaluation of high-volume fly ash (HVFA) concrete modified by metakaolin: Technical, economic and environmental analysis. <i>Powder Technology</i> , 2022, 397, 117121.	4.2	23
22	Effect of steam curing on surface permeability of concrete: Multiple transmission media. <i>Journal of Building Engineering</i> , 2020, 32, 101475.	3.4	22
23	Temperature Effect on the Thermal Conductivity of Expanded Polystyrene Foamed Concrete: Experimental Investigation and Model Correction. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-9.	1.8	18
24	Evolution of mechanical properties and permeability of concrete during steam curing process. <i>Journal of Building Engineering</i> , 2020, 32, 101796.	3.4	18
25	Experimental study of performance of repair mortar: Evaluation of in-situ tests and correlation analysis. <i>Journal of Building Engineering</i> , 2020, 31, 101325.	3.4	18
26	Thermal and mechanical properties of thermal energy storage lightweight aggregate mortar incorporated with phase change material. <i>Journal of Energy Storage</i> , 2020, 32, 101719.	8.1	17
27	Factors influencing the demulsification time of asphalt emulsion in fresh cement emulsified asphalt composite binder. <i>Road Materials and Pavement Design</i> , 2022, 23, 477-490.	4.0	16
28	Properties enhancement of recycled coarse aggregates by pre-coating/pre-soaking with zeolite powder/calcium hydroxide. <i>Construction and Building Materials</i> , 2021, 286, 122888.	7.2	16
29	Synergistic enhancement of mechanical property of the high replacement low-calcium ultrafine fly ash blended cement paste by multiple chemical activators. <i>Journal of Building Engineering</i> , 2020, 32, 101520.	3.4	15
30	Experimental Studies and Microstructure Analysis for Rapid-Hardening Cement Emulsified Asphalt Mortar. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	3.8	11
31	Mechanical and fractural characteristics of structural lightweight fiber reinforced concrete. <i>Structural Concrete</i> , 2023, 24, 2420-2439.	3.1	9
32	Viscosity enhancement of self-consolidating cement-tailings grout by biomass fly ash vs. chemical admixtures. <i>Construction and Building Materials</i> , 2022, 340, 127802.	7.2	8
33	Influencing mechanism of silica fume on early-age properties of magnesium phosphate cement-based coating for hydraulic structure. <i>Journal of Building Engineering</i> , 2022, 54, 104623.	3.4	7
34	Method for calculating dynamic yield stress of fresh cement pastes using a coaxial cylinder system. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5557-5570.	3.8	6
35	Influence of Different Types of Wastes on Mechanical and Durability Properties of Interlocking Concrete Block Paving (ICBP): A Review. <i>Sustainability</i> , 2022, 14, 3733.	3.2	5
36	Synergistic effect of glycine and triethanolamine on mechanical properties and permeability of cement mortar. <i>Journal of Building Engineering</i> , 2022, 51, 104283.	3.4	4

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37	Recycling of water treatment sludge into magnesium potassium phosphate cement component by a combination of silica fume. <i>Journal of Building Engineering</i> , 2022, 51, 104308.	3.4	1