

Peng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,503
citations

186209

28
h-index

197736

49
g-index

61
all docs

61
docs citations

61
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	Properties and activation modification of eco-friendly cementitious materials incorporating high-volume hydrated cement powder from construction waste. <i>Construction and Building Materials</i> , 2022, 316, 125788.	3.2	24
2	Catalytic upgrading of coal volatiles with Fe ₂ O ₃ and hematite by TG-FTIR and Py-GC/MS. <i>Fuel</i> , 2022, 313, 122667.	3.4	33
3	Steel reinforcement corrosion in strain hardening cementitious composites (SHCC): the role of multiple microcracks and surface impregnation. <i>Journal of Sustainable Cement-Based Materials</i> , 2022, 11, 452-464.	1.7	3
4	Coupled effects of sustained compressive loading and freeze-thaw cycles on water penetration into concrete. <i>Structural Concrete</i> , 2021, 22, E944.	1.5	52
5	Application of three self-developed ECT sensors for monitoring the moisture content in sand and mortar. <i>Construction and Building Materials</i> , 2021, 267, 121008.	3.2	40
6	Quasi-elastic neutron scattering (QENS) and its application for investigating the hydration of cement-based materials: State-of-the-art. <i>Materials Characterization</i> , 2021, 172, 110890.	1.9	14
7	Influences of thermal damage on water transport in heat-treated cement mortar: Experimental and theoretical analyses. <i>Construction and Building Materials</i> , 2021, 288, 123100.	3.2	22
8	Application of ferronickel slag as fine aggregate in recycled aggregate concrete and the effects on transport properties. <i>Journal of Cleaner Production</i> , 2021, 304, 127149.	4.6	40
9	Effects of different composite mineral admixtures on the early hydration and long-term properties of cement-based materials: A comparative study. <i>Construction and Building Materials</i> , 2021, 294, 123547.	3.2	31
10	Collaborative disposal of multisource solid waste: Influence of an admixture on the properties, pore structure and durability of foam concrete. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1778-1790.	2.6	35
11	Influence of substrate moisture conditions on microstructure of repair mortar and water imbibition in repair-old mortar composites. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109769.	2.5	7
12	Smart Campuses: Extensive Review of the Last Decade of Research and Current Challenges. <i>IEEE Access</i> , 2021, 9, 124200-124234.	2.6	19
13	Comparison of Mercury Intrusion Porosimetry and multi-scale X-ray CT on characterizing the microstructure of heat-treated cement mortar. <i>Materials Characterization</i> , 2020, 160, 110085.	1.9	66
14	Study on the catalytic pyrolysis of coal volatiles over hematite for the production of light tar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 151, 104927.	2.6	49
15	Influence of exposure environments and moisture content on water repellency of surface impregnation of cement-based materials. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12115-12125.	2.6	71
16	Application of Ag/AgCl Sensor for Chloride Monitoring of Mortar under Dry-Wet Cycles. <i>Sensors</i> , 2020, 20, 1394.	2.1	44
17	Effects of magnesia expansive agents on the self-healing performance of microcracks in strain-hardening cement-based composites (SHCC). <i>Materials Today Communications</i> , 2020, 25, 101421.	0.9	29
18	Influence of the Amount of Steel Fibers on Fracture Energy and Drying Shrinkage of HPRCC. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-15.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Bond Stress between Steel-Reinforced Bars and Fly Ash-Based Geopolymer Concrete. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-11.	1.0	11
20	Effect of Nano-CaCO ₃ on the Mechanical Properties and Durability of Concrete Incorporating Fly Ash. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-10.	1.0	14
21	Preparation and Physical Properties of High-Belite Sulphoaluminate Cement-Based Foam Concrete Using an Orthogonal Test. <i>Materials</i> , 2019, 12, 984.	1.3	12
22	Application of Natural Plant Fibers in Cement-Based Composites and the Influence on Mechanical Properties and Mass Transport. <i>Materials</i> , 2019, 12, 3498.	1.3	29
23	Water-resistance properties of high-belite sulphoaluminate cement-based ultra-light foamed concrete treated with different water repellents. <i>Construction and Building Materials</i> , 2019, 228, 116798.	3.2	25
24	Water absorption and chloride diffusivity of concrete under the coupling effect of uniaxial compressive load and freeze-thaw cycles. <i>Construction and Building Materials</i> , 2019, 209, 566-576.	3.2	161
25	Bond behaviour of reinforced recycled concrete after rapid freezing-thawing cycles. <i>Cold Regions Science and Technology</i> , 2019, 157, 133-138.	1.6	28
26	Application of neutron imaging to investigate fundamental aspects of durability of cement-based materials: A review. <i>Cement and Concrete Research</i> , 2018, 108, 152-166.	4.6	136
27	3D neutron tomography of steel reinforcement corrosion in cement-based composites. <i>Construction and Building Materials</i> , 2018, 162, 561-565.	3.2	28
28	Self-healing behaviour of multiple microcracks of strain hardening cementitious composites (SHCC). <i>Construction and Building Materials</i> , 2018, 169, 705-715.	3.2	46
29	Alternation of traditional cement mortars using fly ash-based geopolymer mortars modified by slag. <i>Journal of Cleaner Production</i> , 2018, 203, 746-756.	4.6	115
30	Performance Analysis of a Recycled Concrete Interfacial Transition Zone in a Rapid Carbonization Environment. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-8.	1.0	13
31	Effect of Air Entrainment on the Mechanical Properties, Chloride Migration, and Microstructure of Ordinary Concrete and Fly Ash Concrete. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	78
32	Self-healing of Cracks in Strain Hardening Cementitious Composites Under Different Environmental Conditions. <i>RILEM Bookseries</i> , 2018, , 600-607.	0.2	2
33	Application of neutron radiography in observing and quantifying the time-dependent moisture distributions in multi-cracked cement-based composites. <i>Cement and Concrete Composites</i> , 2017, 78, 13-20.	4.6	47
34	Visualization of rapid penetration of water into cracked cement mortar using neutron radiography. <i>Materials Letters</i> , 2017, 195, 1-4.	1.3	20
35	Steel reinforcement corrosion in concrete under combined actions: The role of freeze-thaw cycles, chloride ingress, and surface impregnation. <i>Construction and Building Materials</i> , 2017, 148, 113-121.	3.2	84
36	Insights on Capillary Adsorption of Aqueous Sodium Chloride Solution in the Nanometer Calcium Silicate Channel: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13786-13797.	1.5	47

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37	Influence of freeze-thaw cycles on capillary absorption and chloride penetration into concrete. Cement and Concrete Research, 2017, 100, 60-67.	4.6	323
38	Water and chloride ions migration in porous cementitious materials: An experimental and molecular dynamics investigation. Cement and Concrete Research, 2017, 102, 161-174.	4.6	83
39	A novel Zn(SCN) dithiocarbamate/ZnS nanocomposite for highly efficient Cr^{6+} removal from aqueous solutions. RSC Advances, 2017, 7, 35075-35085.	1.7	44
40	A novel microporous amorphous-ZnO@TiO ₂ /graphene ternary nanocomposite with enhanced photocatalytic activity. RSC Advances, 2017, 7, 36787-36792.	1.7	13
41	Bond behavior of steel bar embedded in recycled coarse aggregate concrete under lateral compression load. Construction and Building Materials, 2017, 150, 529-537.	3.2	21
42	Carbonation of Water Repellent-Treated Concrete. Advances in Materials Science and Engineering, 2017, 2017, 1-8.	1.0	4
43	The Effect of Water Repellent Surface Impregnation on Durability of Cement-Based Materials. Advances in Materials Science and Engineering, 2017, 2017, 1-9.	1.0	9
44	Structural, dynamic and mechanical evolution of water confined in the nanopores of disordered calcium silicate sheets. Microfluidics and Nanofluidics, 2015, 19, 1309-1323.	1.0	31
45	Water transport in the nano-pore of the calcium silicate phase: reactivity, structure and dynamics. Physical Chemistry Chemical Physics, 2015, 17, 1411-1423.	1.3	75
46	Aqueous processing and effects of V ₂ O ₅ on microwave dielectric properties of multilayer Li _{1.075} Nb _{0.625} Ti _{0.45} O ₃ ceramics. Electronic Materials Letters, 2014, 10, 111-116.	1.0	5
47	Research on Modification of Steady State Migration Test for Cementitious Materials. Key Engineering Materials, 2013, 539, 166-171.	0.4	0
48	Preparation and dielectrical properties of Li _{1.075} Nb _{0.625} Ti _{0.45} O ₃ powders by hydrothermal method. Electronic Materials Letters, 2012, 8, 401-404.	1.0	3
49	Research and application of an extended role-based access control. , 2011, , .		0
50	Study on Ultra-Strength Mortar Prepared with Mineral Admixture. Materials Science Forum, 2011, 675-677, 1073-1076.	0.3	0
51	Neutron radiography, a powerful method to determine time-dependent moisture distributions in concrete. Nuclear Engineering and Design, 2011, 241, 4758-4766.	0.8	90
52	Study on steep slope stability of coal mine under open-pit and underground mining. , 2011, , .		2
53	Preparation of SiC _w /Al ₂ O ₃ Composite Sheets through Gel-Tape-Casting Process. Materials Science Forum, 2011, 675-677, 119-122.	0.3	1
54	Preparation and Characteristics of Integral Water Repellent Cement-Based Materials. Materials Science Forum, 2011, 675-677, 1189-1192.	0.3	4

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55	Visualization and quantification of water movement in porous cement-based materials by real time thermal neutron radiography: Theoretical analysis and experimental study. Science China Technological Sciences, 2010, 53, 1198-1207.	2.0	15
56	Neutron imaging of water penetration into cracked steel reinforced concrete. Physica B: Condensed Matter, 2010, 405, 1866-1871.	1.3	100
57	Water repellent surface impregnation for extension of service life of reinforced concrete structures in marine environments: The role of cracks. Cement and Concrete Composites, 2010, 32, 101-109.	4.6	201
58	Alkali Reactivity of Construction Spoil Gravel from Qingdao Jiaozhou Bay Subsea Tunnel. Applied Mechanics and Materials, 0, 94-96, 1391-1394.	0.2	0
59	Surface Impregnation of Concrete Damaged by Elevated Temperature. Materials Science Forum, 0, 675-677, 567-570.	0.3	0
60	Influence of Ox Blood on Water Absorption of and Chloride Penetration into Concrete. Advanced Materials Research, 0, 261-263, 496-500.	0.3	0
61	Capillary Absorption Dynamics for Cementitious Material Considering Water Evaporation and Tortuosity of Capillary Pores. Advanced Materials Research, 0, 821-822, 1213-1218.	0.3	3