Guang Ye

List of Publications by Year
in descending order

184 papers	10,372 citations	22153 59 h-index	38395 95 g-index
186 all docs	186 docs citations	186 times ranked	5102 citing authors

#	Article	IF	Citations
1	Influence of limestone powder used as filler in SCC on hydration and microstructure of cement pastes. Cement and Concrete Composites, 2007, 29, 94-102.	10.7	300
2	Hydration and microstructure of ultra high performance concrete incorporating rice husk ash. Cement and Concrete Research, 2011, 41, 1104-1111.	11.0	288
3	The study of using rice husk ash to produce ultra high performance concrete. Construction and Building Materials, 2011, 25, 2030-2035.	7.2	265
4	Self-healing behavior of strain hardening cementitious composites incorporating local waste materials. Cement and Concrete Composites, 2009, 31, 613-621.	10.7	243
5	Self-healing in cementitious materials: Materials, methods and service conditions. Materials and Design, 2016, 92, 499-511.	7.0	237
6	The pore structure and permeability of alkali activated fly ash. Fuel, 2013, 104, 771-780.	6.4	230
7	Characterization and quantification of self-healing behaviors of microcracks due to further hydration in cement paste. Cement and Concrete Research, 2013, 52, 71-81.	11.0	198
8	Characterization of pore structure in cement-based materials using pressurizationâ€“depressurization cycling mercury intrusion porosimetry (PDC-MIP). Cement and Concrete Research, 2010, 40, 1120-1128.	11.0	189
9	Microstructural characterization of ITZ in blended cement concretes and its relation to transport properties. Cement and Concrete Research, 2016, 79, 243-256.	11.0	183
10	Development of engineered cementitious composites with limestone powder and blast furnace slag. Materials and Structures/Materiaux Et Constructions, 2010, 43, 803-814.	3.1	177
11	Effect of internal curing by using superabsorbent polymers (SAP) on autogenous shrinkage and other properties of a high-performance fine-grained concrete: results of a RILEM round-robin test. Materials and Structures/Materiaux Et Constructions, 2014, 47, 541-562.	3.1	175
12	The shrinkage of alkali activated fly ash. Cement and Concrete Research, 2015, 68, 75-82.	11.0	173
13	On the mechanism of polypropylene fibres in preventing fire spalling in self-compacting and high-performance cement paste. Cement and Concrete Research, 2008, 38, 487-499.	11.0	162
14	Waste glass as partial mineral precursor in alkali-activated slag/fly ash system. Cement and Concrete Research, 2017, 102, 29-40.	11.0	161
15	Improved fiber distribution and mechanical properties of engineered cementitious composites by adjusting the mixing sequence. Cement and Concrete Composites, 2012, 34, 342-348.	10.7	155
16	The ITZ microstructure, thickness and porosity in blended cementitious composite: Effects of curing age, water to binder ratio and aggregate content. Composites Part B: Engineering, 2014, 60, 1-13.	12.0	153
17	The pore structure of cement paste blended with fly ash. Construction and Building Materials, 2013, 45, 30-35.	7.2	149
18	A Review on the Durability of Alkali-Activated Fly Ash/Slag Systems: Advances, Issues, and Perspectives. Industrial & Engineering Chemistry Research, 2016, 55, 5439-5453.	3.7	149

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19	Effect of blast furnace slag on self-healing of microcracks in cementitious materials. Cement and Concrete Research, 2014, 60, 68-82.	11.0	148
20	Reactivity tests for supplementary cementitious materials: RILEM TC 267-TRM phase 1. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	144
21	Pore solution composition of alkali-activated slag/fly ash pastes. Cement and Concrete Research, 2019, 115, 230-250.	11.0	138
22	Chemical deformation of metakaolin based geopolymer. Cement and Concrete Research, 2019, 120, 108-118.	11.0	135
23	Dehydration kinetics of Portland cement paste at high temperature. Journal of Thermal Analysis and Calorimetry, 2012, 110, 153-158.	3.6	134
24	Percolation of capillary pores in hardening cement pastes. Cement and Concrete Research, 2005, 35, 167-176.	11.0	130
25	Study on the development of the microstructure in cement-based materials by means of numerical simulation and ultrasonic pulse velocity measurement. Cement and Concrete Composites, 2004, 26, 491-497.	10.7	124
26	Mechanisms of autogenous shrinkage of alkali-activated slag and fly ash pastes. Cement and Concrete Research, 2020, 135, 106107.	11.0	124
27	Computational investigation on mass diffusivity in Portland cement paste based on X-ray computed microtomography (Î¼CT) image. Construction and Building Materials, 2012, 27, 472-481.	7.2	123
28	Diffusivity of saturated ordinary Portland cement-based materials: A critical review of experimental and analytical modelling approaches. Cement and Concrete Research, 2016, 90, 52-72.	11.0	123
29	Development of porosity of cement paste blended with supplementary cementitious materials after carbonation. Construction and Building Materials, 2017, 145, 52-61.	7.2	123
30	Effect of superabsorbent polymers (SAP) on the freezeâ€“thaw resistance of concrete: results of a RILEM interlaboratory study. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	117
31	Effect of limestone fillers on microstructure and permeability due to carbonation of cement pastes under controlled CO 2 pressure conditions. Construction and Building Materials, 2015, 82, 376-390.	7.2	105
32	Three-dimensional microstructure analysis of numerically simulated cementitious materials. Cement and Concrete Research, 2003, 33, 215-222.	11.0	104
33	Simulation of self-healing by further hydration in cementitious materials. Cement and Concrete Composites, 2012, 34, 460-467.	10.7	103
34	Mitigating the autogenous shrinkage of alkali-activated slag by metakaolin. Cement and Concrete Research, 2019, 122, 30-41.	11.0	100
35	Phase distribution and microstructural changes of self-compacting cement paste at elevated temperature. Cement and Concrete Research, 2007, 37, 978-987.	11.0	98
36	Investigation of the changes in microstructure and transport properties of leached cement pastes accounting for mix composition. Cement and Concrete Research, 2016, 79, 217-234.	11.0	96

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37	Ultrahigh performance concrete-properties, applications and perspectives. Science China Technological Sciences, 2015, 58, 587-599.	4.0	92
38	Examining the â€œtime-zeroâ€•of autogenous shrinkage in high/ultra-high performance cement pastes. Cement and Concrete Research, 2017, 97, 107-114.	11.0	91
39	Porosity characterization of ITZ in cementitious composites: Concentric expansion and overflow criterion. Construction and Building Materials, 2013, 38, 1051-1057.	7.2	90
40	Understanding the adhesion mechanisms between C S H and fillers. Cement and Concrete Research, 2017, 100, 275-283.	11.0	90
41	Effect of curing conditions on the pore solution and carbonation resistance of alkali-activated fly ash and slag pastes. Cement and Concrete Research, 2019, 116, 146-158.	11.0	90
42	Setting, Strength, and Autogenous Shrinkage of Alkali-Activated Fly Ash and Slag Pastes: Effect of Slag Content. Materials, 2018, 11, 2121.	2.9	89
43	Investigation of the structure of heated Portland cement paste by using various techniques. Construction and Building Materials, 2013, 38, 1040-1050.	7.2	86
44	A review: Reaction mechanism and strength of slag and fly ash-based alkali-activated materials. Construction and Building Materials, 2022, 326, 126843.	7.2	86
45	Modeling of the internal damage of saturated cement paste due to ice crystallization pressure during freezing. Cement and Concrete Composites, 2011, 33, 562-571.	10.7	85
46	Modelling the carbonation of cement pastes under a CO2 pressure gradient considering both diffusive and convective transport. Construction and Building Materials, 2016, 114, 333-351.	7.2	79
47	Insights into the mechanisms of nucleation and growth of Câ€“Sâ€“H on fillers. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	76
48	Fracture properties and microstructure formation of hardened alkali-activated slag/fly ash pastes. Cement and Concrete Research, 2021, 144, 106447.	11.0	76
49	Fractal and multifractal analysis on pore structure in cement paste. Construction and Building Materials, 2014, 69, 253-261.	7.2	74
50	Characterization of ITZ in ternary blended cementitious composites: Experiment and simulation. Construction and Building Materials, 2013, 41, 742-750.	7.2	73
51	Modeling of ionic diffusivity in non-saturated cement-based materials using lattice Boltzmann method. Cement and Concrete Research, 2012, 42, 1524-1533.	11.0	71
52	Feasibility of self-healing in cementitious materials â€" By using capsules or a vascular system?. Construction and Building Materials, 2014, 63, 108-118.	7.2	71
53	A review study on encapsulationâ€based selfâ€healing for cementitious materials. Structural Concrete, 2019, 20, 198-212.	3.1	71
54	Internal curing by superabsorbent polymers in alkali-activated slag. Cement and Concrete Research, 2020, 135, 106123.	11.0	71

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55	Effect of natural carbonation on the pore structure and elastic modulus of the alkali-activated fly ash and slag pastes. Construction and Building Materials, 2018, 161, 687-704.	7.2	70
56	Determination of water permeability of cementitious materials using a controlled constant flow method. Construction and Building Materials, 2013, 47, 1488-1496.	7.2	69
57	Anm: a geometrical model for the composite structure of mortar and concrete using real-shape particles. Materials and Structures/Materiaux Et Constructions, 2016, 49, 149-158.	3.1	66
58	Estimation of the ionic diffusivity of virtual cement paste by random walk algorithm. Construction and Building Materials, 2012, 28, 405-413.	7.2	65
59	Micro- and meso-scale pore structure in mortar in relation to aggregate content. Cement and Concrete Research, 2013, 52, 149-160.	11.0	61
60	Combined experimental and numerical study of fracture behaviour of cement paste at the microlevel. Cement and Concrete Research, 2015, 73, 123-135.	11.0	61
61	Cement hydration and microstructure in concrete repairs with cementitious repair materials. Construction and Building Materials, 2016, 112, 765-772.	7.2	61
62	Surface characterization of carbonated recycled concrete fines and its effect on the rheology, hydration and strength development of cement paste. Cement and Concrete Composites, 2020, 114, 103809.	10.7	61
63	Preparation of alinite cement from municipal solid waste incineration fly ash. Cement and Concrete Composites, 2012, 34, 322-327.	10.7	58
64	Modelling the evolution of microstructure and transport properties of cement pastes under conditions of accelerated leaching. Construction and Building Materials, 2016, 115, 179-192.	7.2	57
65	Micromechanics-guided development of a slag/fly ash-based strain-hardening geopolymer composite. Cement and Concrete Composites, 2020, 109, 103510.	10.7	57
66	Microstructure-based modeling of permeability of cementitious materials using multiple-relaxation-time lattice Boltzmann method. Computational Materials Science, 2013, 68, 142-151.	3.0	56
67	A mix design methodology of slag and fly ash-based alkali-activated paste. Cement and Concrete Composites, 2022, 126, 104368.	10.7	55
68	RILEM TC 247-DTA round robin test: mix design and reproducibility of compressive strength of alkali-activated concretes. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	53
69	Effect of fly ash on the pore structure of cement paste under a curing period of 3 years. Construction and Building Materials, 2017, 144, 493-501.	7.2	51
70	Coupled thermodynamic modelling and experimental study of sodium hydroxide activated slag. Construction and Building Materials, 2018, 188, 262-279.	7.2	51
71	RILEM TC 247-DTA round robin test: carbonation and chloride penetration testing of alkali-activated concretes. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	3.1	51
72	Self-healing of cracks in cement paste affected by additional Ca²⁺ ions in the healing agent. Journal of Intelligent Material Systems and Structures, 2015, 26, 309-320.	2.5	48

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73	Cracking potential of alkali-activated slag and fly ash concrete subjected to restrained autogenous shrinkage. Cement and Concrete Composites, 2020, 114, 103767.	10.7	48
74	Effect of the Sodium Silicate Modulus and Slag Content on Fresh and Hardened Properties of Alkali-Activated Fly Ash/Slag. Minerals (Basel, Switzerland), 2020, 10, 15.	2.0	45
75	Prediction of the autogenous shrinkage and microcracking of alkali-activated slag and fly ash concrete. Cement and Concrete Composites, 2021, 117, 103913.	10.7	45
76	Effective diffusivity of cement pastes from virtual microstructures: Role of gel porosity and capillary pore percolation. Construction and Building Materials, 2018, 165, 833-845.	7.2	44
77	Characterization and comparison of capillary pore structures of digital cement pastes. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	43
78	Modeling Framework for Fracture in Multiscale Cement-Based Material Structures. Materials, 2017, 10, 587.	2.9	43
79	Influence of moisture condition on chloride diffusion in partially saturated ordinary Portland cement mortar. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	43
80	Molecular dynamics and experimental study on the adhesion mechanism of polyvinyl alcohol (PVA) fiber in alkali-activated slag/fly ash. Cement and Concrete Research, 2021, 145, 106452.	11.0	43
81	Ink-bottle Effect and Pore Size Distribution of Cementitious Materials Identified by Pressurizationâ€"Depressurization Cycling Mercury Intrusion Porosimetry. Materials, 2019, 12, 1454.	2.9	42
82	Tailoring strain-hardening cementitious composite repair systems through numerical experimentation. Cement and Concrete Composites, 2014, 53, 200-213.	10.7	41
83	Carbonation Resistance of Alkali-Activated Slag Under Natural and Accelerated Conditions. Journal of Sustainable Metallurgy, 2018, 4, 33-49.	2.3	41
84	Microstructure-based modeling of water diffusivity in cement paste. Construction and Building Materials, 2011, 25, 2046-2052.	7.2	40
85	Microstructure-based modeling of the diffusivity of cement paste with micro-cracks. Construction and Building Materials, 2013, 38, 1107-1116.	7.2	40
86	Micromechanical Study of the Interface Properties in Concrete Repair Systems. Journal of Advanced Concrete Technology, 2014, 12, 320-339.	1.8	40
87	Development and application of an environmentally friendly ductile alkali-activated composite. Journal of Cleaner Production, 2018, 180, 524-538.	9.3	40
88	CO2 binding capacity of alkali-activated fly ash and slag pastes. Ceramics International, 2018, 44, 19646-19660.	4.8	40
89	Effect of Moisture Exchange on Interface Formation in the Repair System Studied by X-ray Absorption. Materials, 2016, 9, 2.	2.9	39
90	Multiscale lattice Boltzmann-finite element modelling of chloride diffusivity in cementitious materials. Part I: Algorithms and implementation. Mechanics Research Communications, 2014, 58, 53-63.	1.8	38

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91	A 3D Lattice Modelling Study of Drying Shrinkage Damage in Concrete Repair Systems. Materials, 2016, 9, 575.	2.9	38
92	Micro-mechanical properties of alkali-activated fly ash evaluated by nanoindentation. Construction and Building Materials, 2017, 147, 407-416.	7.2	38
93	Compressive Behavior of Engineered Cementitious Composites under High Strain-Rate Loading. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	37
94	Quantitative analysis of phase transition of heated Portland cement paste. Journal of Thermal Analysis and Calorimetry, 2013, 112, 629-636.	3.6	36
95	Effects of heat and pressure on hot-pressed geopolymer. Construction and Building Materials, 2020, 231, 117106.	7.2	36
96	Internal curing of alkali-activated slag-fly ash paste with superabsorbent polymers. Construction and Building Materials, 2020, 263, 120985.	7.2	36
97	Dependence of unsaturated chloride diffusion on the pore structure in cementitious materials. Cement and Concrete Research, 2020, 127, 105919.	11.0	35
98	New insights into autogenous self-healing in cement paste based on nuclear magnetic resonance (NMR) tests. Materials and Structures/Materiaux Et Constructions, 2016, 49, 2509-2524.	3.1	34
99	Investigation on the potential utilization of zeolite as an internal curing agent for autogenous shrinkage mitigation and the effect of modification. Construction and Building Materials, 2019, 198, 669-676.	7.2	34
100	A model for predicting the relative chloride diffusion coefficient in unsaturated cementitious materials. Cement and Concrete Research, 2019, 115, 133-144.	11.0	34
101	Multiscale lattice Boltzmann-finite element modelling of chloride diffusivity in cementitious materials. Part II: Simulation results and validation. Mechanics Research Communications, 2014, 58, 64-72.	1.8	33
102	A versatile pore-scale multicomponent reactive transport approach based on lattice Boltzmann method: Application to portlandite dissolution. Physics and Chemistry of the Earth, 2014, 70-71, 127-137.	2.9	33
103	A three-dimensional lattice Boltzmann method based reactive transport model to simulate changes in cement paste microstructure due to calcium leaching. Construction and Building Materials, 2018, 166, 158-170.	7.2	32
104	Report of RILEM TC 267-TRM phase 3: validation of the R3 reactivity test across a wide range of materials. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	3.1	32
105	Pore size dependent connectivity and ionic transport in saturated cementitious materials. Construction and Building Materials, 2020, 238, 117680.	7.2	31
106	Modelling of stresses and strains in bonded concrete overlays subjected to differential volume changes. Theoretical and Applied Fracture Mechanics, 2008, 49, 199-205.	4.7	30
107	A review of the chloride transport properties of cracked concrete: experiments and simulations. Journal of Zhejiang University: Science A, 2015, 16, 81-92.	2.4	30
108	Plastic viscosity of cement mortar with manufactured sand as influenced by geometric features and particle size. Cement and Concrete Composites, 2021, 122, 104163.	10.7	30

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109	Influence of Boundary Conditions on Pore Percolation in Model Cement Paste. Key Engineering Materials, 2006, 302-303, 486-492.	0.4	29
110	Pore Structure Characterization of Sodium Hydroxide Activated Slag Using Mercury Intrusion Porosimetry, Nitrogen Adsorption, and Image Analysis. Materials, 2018, 11, 1035.	2.9	29
111	Preliminary Interpretation of the Induction Period in Hydration of Sodium Hydroxide/Silicate Activated Slag. Materials, 2020, 13, 4796.	2.9	28
112	Effect of metakaolin on the autogenous shrinkage of alkali-activated slag-fly ash paste. Construction and Building Materials, 2021, 278, 122397.	7.2	27
113	New perspective of service life prediction of fly ash concrete. Construction and Building Materials, 2013, 48, 764-771.	7.2	26
114	Experimental and numerical evaluation of mechanical properties of interface between filler and hydration products. Construction and Building Materials, 2017, 135, 538-549.	7.2	25
115	A comparative study on the mechanical properties, autogenous shrinkage and cracking proneness of alkali-activated concrete and ordinary Portland cement concrete. Construction and Building Materials, 2021, 292, 123418.	7.2	25
116	Influence of the Interfacial Transition Zone and Interconnection on Chloride Migration of Portland Cement Mortar. Journal of Advanced Concrete Technology, 2015, 13, 169-177.	1.8	24
117	Insights and issues on the correlation between diffusion and microstructure of saturated cement pastes. Cement and Concrete Composites, 2019, 96, 106-117.	10.7	21
118	Upscaling Cement Paste Microstructure to Obtain the Fracture, Shear, and Elastic Concrete Mechanical LDPM Parameters. Materials, 2017, 10, 242.	2.9	20
119	Influence of particle size on the early hydration of slag particle activated by Ca(OH)2 solution. Construction and Building Materials, 2014, 52, 488-493.	7.2	18
120	Rheology of alkali-activated slag pastes: New insight from microstructural investigations by cryo-SEM. Cement and Concrete Research, 2022, 157, 106806.	11.0	18
121	Microstructure Analysis of Heated Portland Cement Paste. Procedia Engineering, 2011, 14, 830-836.	1.2	17
122	Evaluation of rheology and strength development of alkali-activated slag with different silicates sources. Cement and Concrete Composites, 2022, 128, 104415.	10.7	17
123	Physicochemical properties and <i>in vitro</i> mineralization of porous polymethylmethacrylate cement loaded with calcium phosphate particles. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 548-555.	3.4	16
124	Relationship between the Size of the Samples and the Interpretation of the Mercury Intrusion Results of an Artificial Sandstone. Materials, 2018, 11, 201.	2.9	16
125	Timeâ€dependent material properties and reinforced beams behavior of two alkaliâ€activated types of concrete. Structural Concrete, 2020, 21, 642-658.	3.1	16
126	Shrinkage Behavior of Alkali-Activated Slag Cement Pastes. Key Engineering Materials, 0, 761, 45-48.	0.4	15

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127	Determination of specific surface area of irregular aggregate by random sectioning and its comparison with conventional methods. Construction and Building Materials, 2021, 273, 122019.	7.2	15
128	Numerical simulation of the initial particle parking structure of cement/geopolymer paste and the dissolution of amorphous silica using real-shape particles. Construction and Building Materials, 2018, 185, 206-219.	7.2	14
129	Early-age properties of alkali-activated slag and glass wool paste. Construction and Building Materials, 2021, 291, 123326.	7.2	14
130	Experimental study on alinite ecocement clinker preparation from municipal solid waste incineration fly ash. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1145-1153.	3.1	13
131	A microscopic study on ternary blended cement based composites. Construction and Building Materials, 2013, 46, 28-38.	7.2	13
132	Microstructure-Based Prediction of the Elastic Behaviour of Hydrating Cement Pastes. Applied Sciences (Switzerland), 2018, 8, 442.	2.5	13
133	A Lattice Boltzmann single component model for simulation of the autogenous self-healing caused by further hydration in cementitious material at mesoscale. Cement and Concrete Research, 2019, 123, 105782.	11.0	13
134	Utilization of miscanthus combustion ash as internal curing agent in cement-based materials: Effect on autogenous shrinkage. Construction and Building Materials, 2019, 207, 585-591.	7.2	13
135	New insights into long-term chloride transport in unsaturated cementitious materials: Role of degree of water saturation. Construction and Building Materials, 2020, 238, 117677.	7.2	10
136	Numerical Studies of the Effects of Water Capsules on Self-Healing Efficiency and Mechanical Properties in Cementitious Materials. Advances in Materials Science and Engineering, 2016, 2016, 1-10.	1.8	9
137	Modeling of the chloride diffusivity of ultra-high performance concrete with a multi-scale scheme. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 055002.	2.0	9
138	THz Fingerprints of Cement-Based Materials. Materials, 2020, 13, 4194.	2.9	9
139	Reactions of self-healing agents and the chemical binding of aggressive ions in sea water: Thermodynamics and kinetics. Cement and Concrete Research, 2021, 145, 106450.	11.0	9
140	A molecular dynamics study of Nâ€"Aâ€"Sâ€"H gel with various Si/Al ratios. Journal of the American Ceramic Society, 2022, 105, 6462-6474.	3.8	9
141	Modelling of time dependency of chloride diffusion coefficient in cement paste. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 687-691.	1.0	8
142	Numerical simulation on moisture transport in cracked cement-based materials in view of self-healing of crack. Journal Wuhan University of Technology, Materials Science Edition, 2010, 25, 1077-1081.	1.0	8
143	Elastic Modulus of the Alkali-Silica Reaction Rim in a Simplified Calcium-Alkali-Silicate System Determined by Nano-Indentation. Materials, 2016, 9, 787.	2.9	8
144	Rice Husk Ash. RILEM State-of-the-Art Reports, 2018, , 283-302.	0.7	7

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145	Numerical Modelling of the Effect of Filler/Matrix Interfacial Strength on the Fracture of Cementitious Composites. Materials, 2018, 11, 1362.	2.9	7
146	Characterization of cogeneration generated Napier grass ash and its potential use as SCMs. Materials and Structures/Materiaux Et Constructions, 2019, 52, 1.	3.1	7
147	A Low-Autogenous-Shrinkage Alkali-Activated Slag and Fly Ash Concrete. Applied Sciences (Switzerland), 2020, 10, 6092.	2.5	7
148	Role of Curing Conditions and Precursor on the Microstructure and Phase Chemistry of Alkali-Activated Fly Ash and Slag Pastes. Materials, 2021, 14, 1918.	2.9	7
149	3D Microstructure Simulation of Reactive Aggregate in Concrete from 2D Images as the Basis for ASR Simulation. Materials, 2021, 14, 2908.	2.9	7
150	Assessment of Structural Feature and Ionic Diffusivity of ITZ in Blended Cementitious Composites. Journal of Advanced Concrete Technology, 2016, 14, 344-353.	1.8	6
151	Multi-scale Approach from Atomistic to Macro for Simulation of the Elastic Properties of Cement Paste. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2020, 44, 861-873.	1.9	6
152	Evaluating compressive mechanical LDPM parameters based on an upscaled multiscale approach. Construction and Building Materials, 2020, 251, 118912.	7.2	6
153	A dissolution model of alite coupling surface topography and ions transport under different hydrodynamics conditions at microscale. Cement and Concrete Research, 2021, 142, 106377.	11.0	6
154	Effect of Filler-Hydrates Adhesion Properties on Cement Paste Strength. ACI Materials Journal, 2018, 115, .	0.2	6
155	A 3D reactive transport model for simulation of the chemical reaction process of ASR at microscale. Cement and Concrete Research, 2022, 151, 106640.	11.0	6
156	Insights in the chemical fundamentals of ASR and the role of calcium in the early stage based on a 3D reactive transport model. Cement and Concrete Research, 2022, 157, 106778.	11.0	6
157	Thermal deformation and stress of alkali-activated slag concrete under semi-adiabatic condition: Experiments and simulations. Cement and Concrete Research, 2022, 159, 106887.	11.0	6
158	3D Lattice Fracture Model: Application to Cement Paste at Microscale. Key Engineering Materials, 0, 452-453, 65-68.	0.4	5
159	Simulation of the microstructure formation in hardening self-compacting cement paste containing limestone powder as filler via computer-based model. Materials and Structures/Materiaux Et Constructions, 2013, 46, 1861-1879.	3.1	5
160	Studies on the Alkaliâ€“Silica Reaction Rim in a Simplified Calciumâ€“Alkaliâ€“Silicate System. Materials, 2016, 9, 670.	2.9	5
161	Failure Modes in Concrete Repair Systems due to Ongoing Corrosion. Advances in Materials Science and Engineering, 2017, 2017, 1-14.	1.8	5
162	Distribution of Lactoferrin Is Related with Dynamics of Neutrophils in Bacterial Infected Mice Intestine. Molecules, 2020, 25, 1496.	3.8	5

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163	Lattice Boltzmann simulation of the dissolution of slag in alkaline solution using real-shape particles. Cement and Concrete Research, 2021, 140, 106313.	11.0	5
164	GeoMicro3D: A novel numerical model for simulating the reaction process and microstructure formation of alkali-activated slag. Cement and Concrete Research, 2021, 141, 106328.	11.0	5
165	Natural Carbonation of Alkali-Activated Fly Ash and Slag Pastes. , 2018, , 2213-2223.		5
166	3D Lattice Fracture Model: Theory and Computer Implementation. Key Engineering Materials, 0, 452-453, 69-72.	0.4	4
167	Concrete in Engineered Barriers for Radioactive Waste Disposal Facilities: Phenomenological Study and Assessment of Long Term Performance. , 2013, , .		4
168	Effect of Limestone Fillers on Ca-Leaching and Carbonation of Cement Pastes. Key Engineering Materials, 0, 711, 269-276.	0.4	4
169	Modelling microstructural changes of ordinary Portland cement paste at elevated temperature. Advances in Cement Research, 2019, 31, 26-42.	1.6	3
170	Comparative study of low-cost fluoride removal by layered double hydroxides, geopolymers, softening pellets and struvite. Environmental Technology (United Kingdom), 2022, 43, 4306-4314.	2.2	3
171	Early-Age Heat Evolution and Pore Structure of Portland Cement Blended with Blast Furnace Slag, Fly Ash or Limestone Powder. Key Engineering Materials, 2009, 405-406, 242-246.	0.4	2
172	Numerical Study on Chloride Ingress in Cement-Based Coating Systems and Service Life Assessment. Journal of Materials in Civil Engineering, 2019, 31, .	2.9	2
173	Coupling of Hydration and Fracture Models: Failure Mechanisms in Hydrating Cement Particle Systems. , 0, , 563-571.		2
174	Microstructure of Cement Paste Blended with Micronized Sand (MS). Building Pathology and Rehabilitation, 2013, , 61-84.	0.2	2
175	Microstructural and permeability changes due to accelerated Ca leaching in ammonium nitrate solution. , 2014, , 431-438.		2
176	Simulation of Failure in Hydrating Cement Particles Systems. Key Engineering Materials, 2007, 348-349, 737-740.	0.4	1
177	New Test Method for Assessing the Carbonation Front in Alkali-Activated Fly Ash/Slag Pastes. Key Engineering Materials, 2018, 761, 148-151.	0.4	1
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