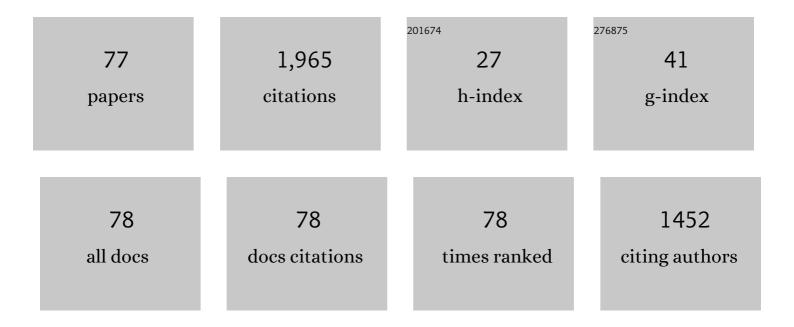
Jin-yang Jiang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of citric acid-modified chitosan on the hydration and microstructure of Portland cement paste. Journal of Sustainable Cement-Based Materials, 2023, 12, 83-96.	3.1	1
2	Uniaxial tensile constitutive model of fiber reinforced concrete considering bridging effect and its numerical algorithm. Journal of Sustainable Cement-Based Materials, 2023, 12, 207-217.	3.1	1
3	Workability, hydration, microstructure, and mechanical properties of UHPC produced with aeolian sand. Journal of Sustainable Cement-Based Materials, 2022, 11, 57-73.	3.1	8
4	Experiment and simulation of chloride ion transport and binding in concrete under the coupling of diffusion and convection. Journal of Building Engineering, 2022, 45, 103610.	3.4	11
5	Feasibility of producing cement-based sacrificial materials with strontium ferrite: A preliminary study. Construction and Building Materials, 2022, 318, 125967.	7.2	3
6	Insight into ions adsorption at the C-S-H gel-aqueous electrolyte interface: From atomic-scale mechanism to macroscopic phenomena. Construction and Building Materials, 2022, 321, 126179.	7.2	12
7	Dynamic compression mechanical properties of eco-friendly ultra-high performance concrete produced with aeolian sand: Experimental and three-dimensional mesoscopic investigation. International Journal of Impact Engineering, 2022, 164, 104192.	5.0	10
8	Calcium silicate hydrate colloid at different humidities: Microstructure, deformation mechanism, and mechanical properties. Acta Materialia, 2022, 228, 117740.	7.9	9
9	Elastic Properties and Deformation Mechanisms in the van der Waals Singleâ€Crystalline Indium Selenide. Physica Status Solidi - Rapid Research Letters, 2022, 16, 2100418.	2.4	1
10	Mechanical properties and antifreeze performance of cement-based composites with liquid paraffin/diatomite capsule low-temperature phase change. Construction and Building Materials, 2022, 341, 127773.	7.2	8
11	THE MULTIFRACTAL PROPERTY OF HETEROGENEOUS MICROSTRUCTURE IN CEMENT PASTE. Fractals, 2021, 29, 2140006.	3.7	19
12	Thermal conductivity and elastic modulus of 3D porous/fractured media considering percolation. International Journal of Engineering Science, 2021, 161, 103456.	5.0	48
13	An investigation on the formation of Friedel's salt in tricalcium silicate combined with metakaolin and limestone systems. Construction and Building Materials, 2021, 284, 122855.	7.2	18
14	Multiple ions transport and interaction in calcium silicate hydrate gel nanopores: Effects of saturation and tortuosity. Construction and Building Materials, 2021, 283, 122638.	7.2	7
15	Observation of Surface Ligands-Controlled Etching of Palladium Nanocrystals. Nano Letters, 2021, 21, 6640-6647.	9.1	10
16	In situ TEM observation of calcium silicate hydrate nanostructure at high temperatures. Cement and Concrete Research, 2021, 149, 106579.	11.0	28
17	The manner and extent to which the hydration shell impacts interactions between hydrated species. Physical Chemistry Chemical Physics, 2021, 23, 20496-20508.	2.8	6
18	Hydraulic transport properties of unsaturated cementitious composites with spheroidal aggregates. International Journal of Mechanical Sciences, 2021, 212, 106845.	6.7	8

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19	Effect of temperature on the capillary transport of sodium sulfate solution in calcium silicate hydrate nanopore: A molecular dynamics study. Construction and Building Materials, 2020, 231, 117111.	7.2	19
20	Improving the chloride binding capacity of cement paste by adding nano-Al2O3: The cases of blended cement pastes. Construction and Building Materials, 2020, 232, 117219.	7.2	52
21	Consistent preparation, chemical stability and thermal properties of a shape-stabilized porous carbon/paraffin phase change materials. Journal of Cleaner Production, 2020, 247, 119565.	9.3	35
22	A Novel Heterostructure Based on RuMo Nanoalloys and Nâ€doped Carbon as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. Advanced Materials, 2020, 32, e2005433.	21.0	151
23	Hydration process and microstructure evolution of low exothermic concrete produced with urea. Construction and Building Materials, 2020, 248, 118640.	7.2	29
24	Nanoengineering Microstructure of Hybrid C–S–H/Silicene Gel. ACS Applied Materials & Interfaces, 2020, 12, 17806-17814.	8.0	11
25	New Insights into the Role of Portlandite in the Cement System: Elastic Anisotropy, Thermal Stability, and Structural Compatibility with C-S-H. Crystal Growth and Design, 2020, 20, 2477-2488.	3.0	21
26	Aluminum-Induced Interfacial Strengthening in Calcium Silicate Hydrates: Structure, Bonding, and Mechanical Properties. ACS Sustainable Chemistry and Engineering, 2020, 8, 2622-2631.	6.7	28
27	Assessing the Adsorption and Diffusion Behavior of Multicomponent lons in Saturated Calcium Silicate Hydrate Gel Pores Using Molecular Dynamics. ACS Sustainable Chemistry and Engineering, 2020, 8, 3718-3727.	6.7	28
28	Corrosion behavior and mechanism of Cr–Mo alloyed steel: Role of ferrite/bainite duplex microstructure. Journal of Alloys and Compounds, 2019, 809, 151787.	5.5	60
29	Effect of Inhibitor on Adsorption Behavior and Mechanism of Micro-Zone Corrosion on Carbon Steel. Materials, 2019, 12, 1901.	2.9	7
30	Surface Modification of Rusted Rebar and Enhanced Passivation/Anticorrosion Performance in Simulated Concrete Pore Solutions with Different Alkalinity. Metals, 2019, 9, 1050.	2.3	6
31	The influence of sodium sulfate and magnesium sulfate on the stability of bound chlorides in cement paste. Construction and Building Materials, 2019, 228, 116775.	7.2	27
32	Nondestructive experimental characterization and numerical simulation on self-healing and chloride ion transport in cracked ultra-high performance concrete. Construction and Building Materials, 2019, 198, 696-709.	7.2	19
33	Quasi-static and dynamic mechanical properties of eco-friendly ultra-high-performance concrete containing aeolian sand. Cement and Concrete Composites, 2019, 97, 369-378.	10.7	58
34	Environmentally-friendly superhydrophobic surface based on Al2O3@KH560@SiO2 electrokinetic nanoparticle for long-term anti-corrosion in sea water. Applied Surface Science, 2019, 484, 307-316.	6.1	57
35	Design of Eco-friendly Ultra-high Performance Concrete with Supplementary Cementitious Materials and Coarse Aggregate. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1350-1359.	1.0	19
36	Feasibility of manufacturing ultra-high performance cement-based composites (UHPCCs) with recycled sand: A preliminary study. Waste Management, 2019, 83, 104-112.	7.4	43

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37	Improving the chloride binding capacity of cement paste by adding nano-Al2O3. Construction and Building Materials, 2019, 195, 415-422.	7.2	56
38	Insights into the interfacial strengthening mechanisms of calcium-silicate-hydrate/polymer nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 8247-8266.	2.8	53
39	Design of a novel nanocomposite with C-S-H@LA for thermal energy storage: A theoretical and experimental study. Applied Energy, 2018, 220, 395-407.	10.1	31
40	Calcite crystallization in the cement system: morphological diversity, growth mechanism and shape evolution. Physical Chemistry Chemical Physics, 2018, 20, 14174-14181.	2.8	36
41	Experimental and molecular dynamics studies on the transport and adsorption of chloride ions in the nano-pores of calcium silicate phase: The influence of calcium to silicate ratios. Microporous and Mesoporous Materials, 2018, 255, 23-35.	4.4	105
42	Mechanical properties and ablation behaviour of nuclear sacrificial materials containing graphene sulfonate nanosheets. Construction and Building Materials, 2018, 191, 69-79.	7.2	16
43	Coupling Mechanism of Saturated Concrete Subjected to Simultaneous Fatigue Loading and Freeze-thaw Cycles. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 1121-1128.	1.0	5
44	Galvanic corrosion of duplex corrosion-resistant steel rebars under carbonated concrete conditions. RSC Advances, 2018, 8, 16626-16635.	3.6	7
45	Modification of incorporation and in-situ polymerization of aniline on the nano-structure and meso-structure of calcium silicate hydrates. Construction and Building Materials, 2018, 182, 459-468.	7.2	31
46	Molecular dynamics study on the weakening effect of moisture content on graphene oxide reinforced cement composite. Chemical Physics Letters, 2018, 708, 177-182.	2.6	41
47	Molecule adsorption and corrosion mechanism of steel under protection of inhibitor in a simulated concrete solution with 3.5% NaCl. RSC Advances, 2018, 8, 20648-20654.	3.6	27
48	Modeling of Ionic Diffusivity for Cement Paste with Solid Mass Fractal Model and Lattice Boltzmann Method. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	5
49	Molecular dynamics study of solvated aniline and ethylene glycol monomers confined in calcium silicate nanochannels: a case study of tobermorite. Physical Chemistry Chemical Physics, 2017, 19, 15145-15159.	2.8	37
50	The mechanism of cesium ions immobilization in the nanometer channel of calcium silicate hydrate: a molecular dynamics study. Physical Chemistry Chemical Physics, 2017, 19, 27974-27986.	2.8	45
51	Formation and Structure of Inhibitive Molecular Film of Oxadiazole on Iron Surface. Journal of Physical Chemistry C, 2017, 121, 21420-21429.	3.1	5
52	Reactive molecular simulation on the calcium silicate hydrates/polyethylene glycol composites. Chemical Physics Letters, 2017, 687, 184-187.	2.6	26
53	Mechanical and thermal properties of graphene sulfonate nanosheet reinforced sacrificial concrete at elevated temperatures. Construction and Building Materials, 2017, 153, 682-694.	7.2	33
54	Effects of graphene sulfonate nanosheets on mechanical and thermal properties of sacrificial concrete during high temperature exposure. Cement and Concrete Composites, 2017, 82, 252-264.	10.7	60

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55	Effect of chromium micro-alloying on the corrosion behavior of a low-carbon steel rebar in simulated concrete pore solutions. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1453-1463.	1.0	8
56	Pitting Corrosion Behaviour of New Corrosion-Resistant Reinforcement Bars in Chloride-Containing Concrete Pore Solution. Materials, 2017, 10, 903.	2.9	19
57	The Passive Film Growth Mechanism of New Corrosion-Resistant Steel Rebar in Simulated Concrete Pore Solution: Nanometer Structure and Electrochemical Study. Materials, 2017, 10, 412.	2.9	34
58	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
59	Influence of Concrete Properties on Molten Core-Concrete Interaction: A Simulation Study. Advances in Materials Science and Engineering, 2016, 2016, 1-10.	1.8	1
60	Fractal Modeling of Pore Structure and Ionic Diffusivity for Cement Paste. Advances in Materials Science and Engineering, 2016, 2016, 1-8.	1.8	5
61	Passivation Characteristics of Alloy Corrosion-Resistant Steel Cr10Mo1 in Simulating Concrete Pore Solutions: Combination Effects of pH and Chloride. Materials, 2016, 9, 749.	2.9	39
62	Simulation of the cracking and ablation behavior of ferro-siliceous and siliceous nuclear sacrificial concretes. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 982-988.	1.0	2
63	Microstructure Characteristic and Electrochemical Corrosion Behavior of Surface Nano-crystallization Modified Carbon Steel. Journal of Iron and Steel Research International, 2016, 23, 1281-1289.	2.8	11
64	Chloride ions transport and adsorption in the nano-pores of silicate calcium hydrate: Experimental and molecular dynamics studies. Construction and Building Materials, 2016, 126, 991-1001.	7.2	108
65	Mechanical and physicochemical properties of ferro-siliceous concrete subjected to elevated temperatures. Construction and Building Materials, 2016, 122, 743-752.	7.2	33
66	Corrosion Behavior of Cr Micro-alloyed Corrosion-resistant Rebar in Neutral Clâ^'-containing Environment. Journal of Iron and Steel Research International, 2016, 23, 608-617.	2.8	11
67	High output power density nanogenerator based on lead-free 0.96(K _{0.48} Na _{0.52})(Nb _{0.95} Sb _{0.05})O ₃ –0.0 piezoelectric nanofibers. RSC Advances, 2016, 6, 66451-66456.)4Bi ss ab>().5⊄ ⊈ ub>(Na
68	Multi-scale modeling of the ionic diffusivity of cement-based materials. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 123-130.	1.0	4
69	Influence of chloride concentration and pre-passivation on the pitting corrosion resistance of low-alloy reinforcing steel in simulated concrete pore solution. Construction and Building Materials, 2016, 111, 805-813.	7.2	105
70	Thermal behavior of siliceous and ferro-siliceous sacrificial concrete subjected to elevated temperatures. Materials and Design, 2016, 95, 470-480.	7.0	25
71	The interactions of molten core with different types of concretes in EPR severe accident. Journal of Sustainable Cement-Based Materials, 2015, 4, 44-53.	3.1	1
72	Interactive Effect of Mechanical Fatigue Load and the Fatigue Effect of Freeze-Thaw on Combined Damage of Concrete. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	10

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73	Quantitative calculation of hydration products for binary slag-Portland cement system. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 972-979.	1.0	3
74	Chloride ion transport in fly ash mortar under action of fatigue loading. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 1165-1171.	1.0	7
75	Chloride ion transport performance in slag mortar under fatigue loading. Science China Technological Sciences, 2012, 55, 1359-1364.	4.0	10
76	An analytical method to detect the coupling damage relationship of concrete subjected to bending fatigue and temperature actions. Journal Wuhan University of Technology, Materials Science Edition, 2011, 26, 573-577.	1.0	0
77	Cracking resistance performance of super vertical-distance pumped SFRC. Frontiers of Architecture and Civil Engineering in China, 2008, 2, 179-183.	0.4	4