

# Yang Zhou

## List of Publications by Year in descending order

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29  
papers

843  
citations

516710

16  
h-index

610901

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-sided tuning effects of lactic acid on the hydration, microstructure and strength of supersulfated cement. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 170-183.	3.1	1
2	Insights at the neutron irradiation-induced structural homogenization effect of calcium silicate hydrates and degradation mechanism of mechanical properties: a molecular dynamics study. <i>Journal of Sustainable Cement-Based Materials</i> , 2023, 12, 116-128.	3.1	1
3	A deep learning potential applied in tobermorite phases and extended to calcium silicate hydrates. <i>Cement and Concrete Research</i> , 2022, 152, 106685.	11.0	42
4	The impediment and promotion effects and mechanisms of lactates on the hydration of supersulfated cements - Aiming at a performance enhancement. <i>Journal of Cleaner Production</i> , 2022, 341, 130751.	9.3	7
5	Molecular-scale insights on structure-efficiency relationship of silane-based waterproofing agents. <i>Construction and Building Materials</i> , 2022, 327, 126985.	7.2	7
6	Effect of a Novel Vibration Mixing on the Fiber Distribution and Mechanical Properties of Ultra-High Performance Concrete. <i>Sustainability</i> , 2022, 14, 7920.	3.2	1
7	A Multi-scale Study of Enhancing Mechanical Property in Ultra-High Performance Concrete by Steel-fiber@Nano-silica. <i>Construction and Building Materials</i> , 2022, 342, 128069.	7.2	11
8	A molecular dynamics study of calcium silicate hydrates-aggregate interfacial interactions and influence of moisture. <i>Journal of Central South University</i> , 2021, 28, 16-28.	3.0	19
9	The influence of two types of alkali activators on the microstructure and performance of supersulfated cement concrete and mitigating the strength and carbonation resistance. <i>Cement and Concrete Composites</i> , 2021, 118, 103947.	10.7	41
10	Enhancing the PVA fiber-matrix interface properties in ultra high performance concrete: An experimental and molecular dynamics study. <i>Construction and Building Materials</i> , 2021, 285, 122862.	7.2	48
11	Molecular dynamics simulation of the interfacial interaction mechanism between functional groups on graphene-based two-dimensional matrix and calcium silicate hydrate. <i>Construction and Building Materials</i> , 2021, 284, 122804.	7.2	18
12	Machine Learning Modeling of Water Use Patterns in Small Disadvantaged Communities. <i>Water (Switzerland)</i> , 2021, 13, 2312.	2.7	0
13	The Optimal Design on the Molecular Structure of a Fluid Transport Inhibitor Applied to Reinforced Concrete Structures. <i>ACS Omega</i> , 2021, 6, 29692-29702.	3.5	0
14	The inhibiting effect and mechanisms of smart polymers on the transport of fluids throughout nano-channels. <i>Applied Surface Science</i> , 2020, 500, 144019.	6.1	19
15	Hierarchical Toughening of a Biomimetic Bulk Cement Composite. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53297-53309.	8.0	22
16	Finite Element Simulation and Multi-Factor Stress Prediction Model for Cement Concrete Pavement Considering Void under Slab. <i>Materials</i> , 2020, 13, 5294.	2.9	5
17	A Molecular Dynamics Study on the Structure, Interfaces, Mechanical Properties, and Mechanisms of a Calcium Silicate Hydrate/2D-Silica Nanocomposite. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	15
18	Insights on the ion migration throughout the nano-channel of ettringite under an external electric field: Structure, dynamics, and mechanisms. <i>Construction and Building Materials</i> , 2020, 262, 120074.	7.2	13

#	ARTICLE	IF	CITATIONS
19	The design and evaluation of a smart polymer-based fluids transport inhibitor. Journal of Cleaner Production, 2020, 257, 120528.	9.3	21
20	Mechanical Behavior of Concrete Pavement considering Void beneath Slabs and Joints LTE. Advances in Civil Engineering, 2020, 2020, 1-13.	0.7	0
21	Interaction mechanisms between organic and inorganic phases in calcium silicate hydrates/poly(vinyl) Tj ETQq1 1 0,784314 rgBT /Ove	11.0	55
22	Wrinkling process in a single silicene sheet caused by in-plane shear. Engineering Structures, 2019, 198, 109446.	5.3	2
23	Modification of poly(ethylene glycol) on the microstructure and mechanical properties of calcium silicate hydrates. Cement and Concrete Research, 2019, 115, 20-30.	11.0	55
24	Insights into the interfacial strengthening mechanisms of calcium-silicate-hydrate/polymer nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 8247-8266.	2.8	53
25	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
26	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
27	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
28	Interfacial Connection Mechanisms in Calcium“Silicate”Hydrates/Polymer Nanocomposites: A Molecular Dynamics Study. ACS Applied Materials & Interfaces, 2017, 9, 41014-41025.	8.0	106
29	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