# Yang Zhou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8858662/publications.pdf

Version: 2024-02-01

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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 | 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 |
| 2 | Interfacial Connection Mechanisms in Calciumâ€“Silicateâ€“Hydrates/Polymer Nanocomposites: A Molecular Dynamics Study. ACS Applied Materials & Interfaces, 2017, 9, 41014-41025. | 8.0 | 106 |
| 3 | 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 |
| 4 | Interaction mechanisms between organic and inorganic phases in calcium silicate hydrates/poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 11.0 | 55 |
| 5 | 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 |
| 6 | Insights into the interfacial strengthening mechanisms of calcium-silicate-hydrate/polymer nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 8247-8266. | 2.8 | 53 |
| 7 | Enhancing the PVA fiber-matrix interface properties in ultra high performance concrete: An experimental and molecular dynamics study. Construction and Building Materials, 2021, 285, 122862. | 7.2 | 48 |
| 8 | A deep learning potential applied in tobermorite phases and extended to calcium silicate hydrates. Cement and Concrete Research, 2022, 152, 106685. | 11.0 | 42 |
| 9 | The influence of two types of alkali activators on the microstructure and performance of supersulfated cement concreteï¼š mitigating the strength and carbonation resistance. Cement and Concrete Composites, 2021, 118, 103947. | 10.7 | 41 |
| 10 | 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 |
| 11 | 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 |
| 12 | Hierarchical Toughening of a Biomimetic Bulk Cement Composite. ACS Applied Materials & Interfaces, 2020, 12, 53297-53309. | 8.0 | 22 |
| 13 | The design and evaluation of a smart polymer-based fluids transport inhibitor. Journal of Cleaner Production, 2020, 257, 120528. | 9.3 | 21 |
| 14 | The inhibiting effect and mechanisms of smart polymers on the transport of fluids throughout nano-channels. Applied Surface Science, 2020, 500, 144019. | 6.1 | 19 |
| 15 | A molecular dynamics study of calcium silicate hydrates-aggregate interfacial interactions and influence of moisture. Journal of Central South University, 2021, 28, 16-28. | 3.0 | 19 |
| 16 | Molecular dynamics simulation of the interfacial interaction mechanism between functional groups on graphene-based two-dimensional matrix and calcium silicate hydrate. Construction and Building Materials, 2021, 284, 122804. | 7.2 | 18 |
| 17 | A Molecular Dynamics Study on the Structure, Interfaces, Mechanical Properties, and Mechanisms of a Calcium Silicate Hydrate/2D-Silica Nanocomposite. Frontiers in Materials, 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. Construction and Building Materials, 2020, 262, 120074. | 7.2 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Multi-scale Study of Enhancing Mechanical Property in Ultra-High Performance Concrete by Steel-fiber@Nano-silica. Construction and Building Materials, 2022, 342, 128069. | 7.2 | 11 |
| 20 | The impediment and promotion effects and mechanisms of lactates on the hydration of supersulfated cements - Aiming at a performance enhancement. Journal of Cleaner Production, 2022, 341, 130751. | 9.3 | 7 |
| 21 | Molecular-scale insights on structure-efficiency relationship of silane-based waterproofing agents. Construction and Building Materials, 2022, 327, 126985. | 7.2 | 7 |
| 22 | Finite Element Simulation and Multi-Factor Stress Prediction Model for Cement Concrete Pavement Considering Void under Slab. Materials, 2020, 13, 5294. | 2.9 | 5 |
| 23 | Wrinkling process in a single silicene sheet caused by in-plane shear. Engineering Structures, 2019, 198, 109446. | 5.3 | 2 |
| 24 | Double-sided tuning effects of lactic acid on the hydration, microstructure and strength of supersulfated cement. Journal of Sustainable Cement-Based Materials, 2023, 12, 170-183. | 3.1 | 1 |
| 25 | Insights at the neutron irradiation-induced structural homogenization effect of calcium silicate hydrates and degradation mechanism of mechanical properties: a molecular dynamics study. Journal of Sustainable Cement-Based Materials, 2023, 12, 116-128. | 3.1 | 1 |
| 26 | Effect of a Novel Vibration Mixing on the Fiber Distribution and Mechanical Properties of Ultra-High Performance Concrete. Sustainability, 2022, 14, 7920. | 3.2 | 1 |
| 27 | Machine Learning Modeling of Water Use Patterns in Small Disadvantaged Communities. Water (Switzerland), 2021, 13, 2312. | 2.7 | 0 |
| 28 | The Optimal Design on the Molecular Structure of a Fluid Transport Inhibitor Applied to Reinforced Concrete Structures. ACS Omega, 2021, 6, 29692-29702. | 3.5 | 0 |
| 29 | Mechanical Behavior of Concrete Pavement considering Void beneath Slabs and Joints LTE. Advances in Civil Engineering, 2020, 2020, 1-13. | 0.7 | 0 |