

Peng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,215
citations

361413

20
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

485
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties and prediction of fracture parameters of geopolymer/alkali-activated mortar modified with PVA fiber and nano-SiO ₂ . <i>Ceramics International</i> , 2020, 46, 20027-20037.	4.8	150
2	Cracking resistance and mechanical properties of basalt fibers reinforced cement-stabilized macadam. <i>Composites Part B: Engineering</i> , 2019, 165, 312-334.	12.0	90
3	A review on durability of nano-SiO ₂ and basalt fiber modified recycled aggregate concrete. <i>Construction and Building Materials</i> , 2021, 304, 124659.	7.2	89
4	Macroscopic and microscopic analyses on mechanical performance of metakaolin/fly ash based geopolymer mortar. <i>Journal of Cleaner Production</i> , 2021, 294, 126193.	9.3	85
5	Interfacial properties of geopolymer mortar and concrete substrate: Effect of polyvinyl alcohol fiber and nano-SiO ₂ contents. <i>Construction and Building Materials</i> , 2022, 315, 125735.	7.2	63
6	Bonding behavior of concrete matrix and alkali-activated mortar incorporating nano-SiO ₂ and polyvinyl alcohol fiber: Theoretical analysis and prediction model. <i>Ceramics International</i> , 2021, 47, 31638-31649.	4.8	56
7	Influencing factors analysis and optimized prediction model for rheology and flowability of nano-SiO ₂ and PVA fiber reinforced alkali-activated composites. <i>Journal of Cleaner Production</i> , 2022, 366, 132988.	9.3	52
8	Comprehensive review of the properties of fly ash-based geopolymer with additive of nano-SiO ₂ . <i>Nanotechnology Reviews</i> , 2022, 11, 1478-1498.	5.8	51
9	Effects of ages on the ITZ microstructure of crumb rubber concrete. <i>Construction and Building Materials</i> , 2020, 254, 119329.	7.2	48
10	Methods for improving the durability of recycled aggregate concrete: A review. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6367-6386.	5.8	46
11	Effect of Dry/Wet Ratio on Properties of Concrete Under Sulfate Attack. <i>Materials</i> , 2019, 12, 2755.	2.9	41
12	Effect of Nano Silica Particles on Impact Resistance and Durability of Concrete Containing Coal Fly Ash. <i>Nanomaterials</i> , 2021, 11, 1296.	4.1	39
13	Influence of fibers on the mechanical properties and durability of ultra-high-performance concrete: A review. <i>Journal of Building Engineering</i> , 2022, 52, 104370.	3.4	39
14	Single and synergistic enhancement on durability of geopolymer mortar by polyvinyl alcohol fiber and nano-SiO ₂ . <i>Journal of Materials Research and Technology</i> , 2021, 15, 1801-1814.	5.8	37
15	Effects of UEA and MgO expansive agents on fracture properties of concrete. <i>Construction and Building Materials</i> , 2020, 263, 120245.	7.2	36
16	Compressive strength and anti-chloride ion penetration assessment of geopolymer mortar merging PVA fiber and nano-SiO ₂ using RBF composite neural network. <i>Nanotechnology Reviews</i> , 2022, 11, 1181-1192.	5.8	34
17	Fracture properties of rubberized concrete under different temperature and humidity conditions based on digital image correlation technique. <i>Journal of Cleaner Production</i> , 2020, 276, 124106.	9.3	26
18	Effects of nanoparticles on engineering performance of cementitious composites reinforced with PVA fibers. <i>Nanotechnology Reviews</i> , 2020, 9, 504-514.	5.8	23

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19	Effect of nano and micro conductive materials on conductive properties of carbon fiber reinforced concrete. <i>Nanotechnology Reviews</i> , 2020, 9, 445-454.	5.8	22
20	Multiphysical damage characteristics of concrete exposed to external sulfate attack: Elucidating effect of drying-wetting cycles. <i>Construction and Building Materials</i> , 2022, 329, 127143.	7.2	21
21	Mechanical Properties and Durability of Polypropylene and Steel Fiber-Reinforced Recycled Aggregates Concrete (FRRAC): A Review. <i>Sustainability</i> , 2020, 12, 9509.	3.2	20
22	Fracture Models and Effect of Fibers on Fracture Properties of Cementitious Composites—A Review. <i>Materials</i> , 2020, 13, 5495.	2.9	17
23	Effect of large broken stone content on properties of roller compacted concrete based on fractal theory. <i>Construction and Building Materials</i> , 2020, 262, 120821.	7.2	17
24	Mechanical Properties of Nano-SiO ₂ Reinforced Geopolymer Concrete under the Coupling Effect of a Wet-Thermal and Chloride Salt Environment. <i>Polymers</i> , 2022, 14, 2298.	4.5	16
25	Mechanical properties and microstructure of nano-strengthened recycled aggregate concrete. <i>Nanotechnology Reviews</i> , 2022, 11, 1499-1510.	5.8	15
26	Correlation between pavement temperature and deflection basin form factors of asphalt pavement. <i>International Journal of Pavement Engineering</i> , 2019, 20, 874-883.	4.4	14
27	Statistical analysis of three-point-bending fracture failure of mortar. <i>Construction and Building Materials</i> , 2021, 300, 123883.	7.2	14
28	Application of Nondestructive Testing Technology in Quality Evaluation of Plain Concrete and RC Structures in Bridge Engineering: A Review. <i>Buildings</i> , 2022, 12, 843.	3.1	13
29	Effect of Municipal Solid Waste Incineration Fly Ash on the Mechanical Properties and Microstructure of Geopolymer Concrete. <i>Gels</i> , 2022, 8, 341.	4.5	11
30	Analysis on the Time-Varying Fragility of Offshore Concrete Bridge. <i>Complexity</i> , 2019, 2019, 1-22.	1.6	6
31	A Critical Review on Effect of Nanomaterials on Workability and Mechanical Properties of High-Performance Concrete. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-24.	0.7	6
32	Effect of Municipal Solid Waste Incineration Ash on Microstructure and Hydration Mechanism of Geopolymer Composites. <i>Buildings</i> , 2022, 12, 723.	3.1	6
33	Advanced Cementitious Building Materials with Applications in Civil Engineering. <i>Advances in Civil Engineering</i> , 2017, 2017, 1-3.	0.7	4
34	Early-Age Mechanical Characteristics and Microstructure of Concrete Containing Mineral Admixtures under the Environment of Low Humidity and Large Temperature Variation. <i>Materials</i> , 2021, 14, 5085.	2.9	3
35	The Counterbalance of the Adverse Effect of Abrasion on the Properties of Concrete Incorporating Nano-SiO ₂ and Polypropylene Fiber Based on Pore Structure Fractal Characteristics. <i>Fractal and Fractional</i> , 2022, 6, 392.	3.3	3
36	High Performance Concrete Materials with Applications in Building and Civil Engineering. <i>Journal of Engineering (United States)</i> , 2017, 2017, 1-3.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Advances in Sustainable Concrete System. Crystals, 2022, 12, 698.	2.2	0