

Tao Meng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4481410/publications.pdf>

Version: 2024-02-01

39
papers

968
citations

686830

13
h-index

454577

30
g-index

39
all docs

39
docs citations

39
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nano-TiO ₂ on the mechanical properties of cement mortar. <i>Construction and Building Materials</i> , 2012, 29, 241-245.	3.2	229
2	The modification effects of a nano-silica slurry on microstructure, strength, and strain development of recycled aggregate concrete applied in an enlarged structural test. <i>Construction and Building Materials</i> , 2015, 95, 721-735.	3.2	106
3	Surface Treatment on Recycled Coarse Aggregates with Nanomaterials. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	98
4	Effect of nano-CaCO ₃ slurry on the mechanical properties and micro-structure of concrete with and without fly ash. <i>Composites Part B: Engineering</i> , 2017, 117, 124-129.	5.9	97
5	Effect of compound nano-CaCO ₃ addition on strength development and microstructure of cement-stabilized soil in the marine environment. <i>Construction and Building Materials</i> , 2017, 151, 775-781.	3.2	71
6	Effect of nano-SiO ₂ with different particle size on the hydration kinetics of cement. <i>Thermochimica Acta</i> , 2019, 675, 127-133.	1.2	59
7	Comparison of technical properties of cement pastes with different activated recycled powder from construction and demolition waste. <i>Cement and Concrete Composites</i> , 2021, 120, 104065.	4.6	46
8	Effect of nano-strengthening on the properties and microstructure of recycled concrete. <i>Nanotechnology Reviews</i> , 2020, 9, 79-92.	2.6	38
9	Utilization of red mud for producing a high strength binder by composition optimization and nano strengthening. <i>Nanotechnology Reviews</i> , 2020, 9, 396-409.	2.6	28
10	Effect of different particle sizes of nano-SiO ₂ on the properties and microstructure of cement paste. <i>Nanotechnology Reviews</i> , 2020, 9, 833-842.	2.6	23
11	CO ₂ Pretreatment to Aerated Concrete with High-Volume Industry Wastes Enables a Sustainable Precast Concrete Industry. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3363-3375.	3.2	22
12	Comparative study on mechanisms for improving mechanical properties and microstructure of cement paste modified by different types of nanomaterials. <i>Nanotechnology Reviews</i> , 2021, 10, 370-384.	2.6	17
13	An approach to effectively improve the interfacial bonding of pasteâ€“limestone by incorporating different nanomaterials. <i>Composites Part B: Engineering</i> , 2022, 242, 110046.	5.9	14
14	Improvement of recycled aggregate properties through a combined method of mechanical grinding and microbial-induced carbonate precipitation. <i>Construction and Building Materials</i> , 2022, 342, 128093.	3.2	14
15	Evaluating the crushing characteristics of recycled construction and demolition waste for use in road bases. <i>Transportation Geotechnics</i> , 2021, 28, 100543.	2.0	12
16	Effects of Nano-CaCO ₃ on the Compressive Strength and Microstructure of High Strength Concrete in Different Curing Temperature. <i>Applied Mechanics and Materials</i> , 0, 121-126, 126-131.	0.2	11
17	Estimation of resilient modulus of cement-treated construction and demolition waste with performance-related properties. <i>Construction and Building Materials</i> , 2021, 283, 122107.	3.2	10
18	Effects of load types and critical molar ratios on strength properties and geopolymerization mechanism. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 216-222.	1.4	9

#	ARTICLE	IF	CITATIONS
19	Feasibility study of cement-stabilized materials using 100% mixed recycled aggregates from perspectives of mechanical properties and microstructure. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 490-502.	1.4	8
20	Effect of Mixed Recycled Aggregate on the Mechanical Strength and Microstructure of Concrete under Different Water Cement Ratios. <i>Materials</i> , 2021, 14, 2631.	1.3	8
21	Effect of nano-SiO ₂ on properties and microstructure of polymer modified cementitious materials at different temperatures. <i>Structural Concrete</i> , 2020, 21, 794-803.	1.5	7
22	Effect of Nano-SiO ₂ on the Mechanical Properties, Microstructure, and Hydration Process of Cementitious Materials Incorporating Hydrophobic Admixture. <i>Journal of Materials in Civil Engineering</i> , 2020, 32, 04020018.	1.3	7
23	Relationship between percolation mechanism and pore characteristics of recycled permeable bricks based on X-ray computed tomography. <i>Reviews on Advanced Materials Science</i> , 2021, 60, 207-215.	1.4	7
24	Analysis of the Effect of Nano-SiO ₂ and Waterproofing Agent on the Water Transportation Process in Mortar Using NMR. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7867.	1.3	4
25	Effects of nano-modified polymer cement-based materials on the bending behavior of repaired concrete beams. <i>Nanotechnology Reviews</i> , 2021, 10, 292-303.	2.6	4
26	Photocatalytic property of Ag modified nano-TiO ₂ /carbon nanotube composites for NO ₂ degradation under visible light. <i>Materials Research Innovations</i> , 2014, 18, S2-691-S2-695.	1.0	3
27	Influence of Nano-SiO ₂ and Nano-CaCO ₃ on the Mechanical Properties of Concrete with Different Strength Grades. <i>Advanced Materials Research</i> , 0, 250-253, 480-484.	0.3	2
28	Development and design of composite cementitious material at long-time circular elevated temperature in metallurgy environment. <i>Construction and Building Materials</i> , 2012, 35, 368-375.	3.2	2
29	Deterioration mechanism of concrete under long-term elevated temperature in a metallurgic environment: A case study of the Baosteel company. <i>Case Studies in Construction Materials</i> , 2021, 14, e00503.	0.8	2
30	Effect of Fly Ash on the Mechanical Properties and Microstructure of Cement-Stabilized Materials with 100% Recycled Mixed Aggregates. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 992.	0.8	2
31	Spatial characteristics of stray current corrosion of reinforcing bars in pseudo concrete. <i>Structural Concrete</i> , 2023, 24, 374-388.	1.5	2
32	Research on Mechanism of Concrete Corrosion Subjected to Underground Acid Liquid. <i>Key Engineering Materials</i> , 2006, 302-303, 91-97.	0.4	1
33	Research on Composite Strengthening Nano-Technique of Recycled Aggregate. <i>Applied Mechanics and Materials</i> , 0, 357-360, 1189-1193.	0.2	1
34	Effect of Nano Compound Addition on the Properties and Microstructure of Cement Mortar with Mixed Fine Recycled Aggregate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 719, 022074.	0.2	1
35	Long-term influence of tailings wastewater on mechanical performance and microstructure of dam concrete: A case study in southeastern China. <i>Case Studies in Construction Materials</i> , 2021, 15, e00720.	0.8	1
36	Effect of nano-TiO ₂ on the mechanical properties of cement mortar. , 2012, 29, 241-241.		1

#	ARTICLE	IF	CITATIONS
37	Influence of Shrinkage Reduce Agent on Early Age Autogenous Shrinkage of Concrete. Key Engineering Materials, 0, , 211-217.	0.4	1
38	Study on the Photo-Catalytic Properties of Nano-TiO ₂ Cementitious Materials. Advanced Materials Research, 2010, 168-170, 1561-1565.	0.3	0
39	Effect of nanocomposite slurry on strength development of fully recycled aggregate concrete. Advances in Structural Engineering, 2021, 24, 2176-2184.	1.2	0