

# Tao Meng

## List of Publications by Year in descending order

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39  
papers

968  
citations

687220

13  
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454834

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docs citations

39  
times ranked

748  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial characteristics of stray current corrosion of reinforcing bars in pseudo concrete. <i>Structural Concrete</i> , 2023, 24, 374-388.	1.5	2
2	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
3	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
4	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
5	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
6	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
7	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
8	Effect of nanocomposite slurry on strength development of fully recycled aggregate concrete. <i>Advances in Structural Engineering</i> , 2021, 24, 2176-2184.	1.2	0
9	CO <sub>2</sub> 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
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Effect of nano-SiO <sub>2</sub> on properties and microstructure of polymer modified cementitious materials at different temperatures. Structural Concrete, 2020, 21, 794-803.	1.5	7
20	Analysis of the Effect of Nano-SiO <sub>2</sub> and Waterproofing Agent on the Water Transportation Process in Mortar Using NMR. Applied Sciences (Switzerland), 2020, 10, 7867.	1.3	4
21	Effect of nano-strengthening on the properties and microstructure of recycled concrete. Nanotechnology Reviews, 2020, 9, 79-92.	2.6	38
22	Effect of Nano-SiO <sub>2</sub> on the Mechanical Properties, Microstructure, and Hydration Process of Cementitious Materials Incorporating Hydrophobic Admixture. Journal of Materials in Civil Engineering, 2020, 32, 04020018.	1.3	7
23	Utilization of red mud for producing a high strength binder by composition optimization and nano strengthening. Nanotechnology Reviews, 2020, 9, 396-409.	2.6	28
24	Effect of different particle sizes of nano-SiO <sub>2</sub> on the properties and microstructure of cement paste. Nanotechnology Reviews, 2020, 9, 833-842.	2.6	23
25	Effect of nano-SiO <sub>2</sub> with different particle size on the hydration kinetics of cement. Thermochemica Acta, 2019, 675, 127-133.	1.2	59
26	Effect of nano-CaCO <sub>3</sub> slurry on the mechanical properties and micro-structure of concrete with and without fly ash. Composites Part B: Engineering, 2017, 117, 124-129.	5.9	97
27	Effect of compound nano-CaCO <sub>3</sub> addition on strength development and microstructure of cement-stabilized soil in the marine environment. Construction and Building Materials, 2017, 151, 775-781.	3.2	71
28	Surface Treatment on Recycled Coarse Aggregates with Nanomaterials. Journal of Materials in Civil Engineering, 2016, 28, .	1.3	98
29	The modification effects of a nano-silica slurry on microstructure, strength, and strain development of recycled aggregate concrete applied in an enlarged structural test. Construction and Building Materials, 2015, 95, 721-735.	3.2	106
30	Photocatalytic property of Ag modified nano-TiO <sub>2</sub> /carbon nanotube composites for NO <sub>2</sub> degradation under visible light. Materials Research Innovations, 2014, 18, S2-691-S2-695.	1.0	3
31	Effect of nano-TiO <sub>2</sub> on the mechanical properties of cement mortar. Construction and Building Materials, 2012, 29, 241-245.	3.2	229
32	Development and design of composite cementitious material at long-time circular elevated temperature in metallurgy environment. Construction and Building Materials, 2012, 35, 368-375.	3.2	2
33	Effect of nano-TiO <sub>2</sub> on the mechanical properties of cement mortar. , 2012, 29, 241-241.		1
34	Study on the Photo-Catalytic Properties of Nano-TiO <sub>2</sub> Cementitious Materials. Advanced Materials Research, 2010, 168-170, 1561-1565.	0.3	0
35	Research on Mechanism of Concrete Corrosion Subjected to Underground Acid Liquid. Key Engineering Materials, 2006, 302-303, 91-97.	0.4	1
36	Effects of Nano-CaCO <sub>3</sub> on the Compressive Strength and Microstructure of High Strength Concrete in Different Curing Temperature. Applied Mechanics and Materials, 0, 121-126, 126-131.	0.2	11

#	ARTICLE	IF	CITATIONS
37	Influence of Nano-SiO <sub>2</sub> and Nano-CaCO <sub>3</sub> on the Mechanical Properties of Concrete with Different Strength Grades. <i>Advanced Materials Research</i> , 0, 250-253, 480-484.	0.3	2
38	Research on Composite Strengthening Nano-Technique of Recycled Aggregate. <i>Applied Mechanics and Materials</i> , 0, 357-360, 1189-1193.	0.2	1
39	Influence of Shrinkage Reduce Agent on Early Age Autogenous Shrinkage of Concrete. <i>Key Engineering Materials</i> , 0, , 211-217.	0.4	1