Mingjiang Tao

List of Publications by Year
in descending order

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61 papers	2,553 citations	279798 23 h-index	197818 49 g-index
61 all docs	61 docs citations	61 times ranked	2309 citing authors

#	Article	IF	Citations
1	Coating performance, durability and anti-corrosion mechanism of organic modified geopolymer composite for marine concrete protection. Cement and Concrete Composites, 2022, 129, 104495.	10.7	42
2	Closure to â€œPerformance of Geogrid-Reinforced and PTC Pile-Supported Embankment in a Highway Widening Project over Soft Soilsâ€•by Mengxuan Zhao, Chunyuan Liu, Tahar El-Korchi, Haichao Song, and Mingjiang Tao. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, 07020030.	3.0	0
3	Thermal optimization of a novel thermo-optically responsive SS-PCM coatings for building enclosures. Energy and Buildings, 2021, 247, 111129.	6.7	11
4	Safe Mining Assessment of Artisanal Barite Mining Activities in Nigeria. Mining, 2021, 1, 224-240.	2.4	3
5	Effects of pre-setting chemical exchanges on geopolymers cast in saline waters. Construction and Building Materials, 2021, 308, 125020.	7.2	7
6	Physicochemical Studies for Risk Identification, Assessment, and Characterization of Artisanal Barite Mining in Nigeria. Sustainability, 2021, 13, 12982.	3.2	2
7	A framework for the assessment of contribution of base layer performance towards resilience of flexible pavement to flooding. International Journal of Pavement Engineering, 2020, 21, 1223-1234.	4.4	10
8	Characteristics of underwater cast and cured geopolymers. Cement and Concrete Composites, 2020, 114, 103783.	10.7	19
9	Bioinspired Building Envelopes. , 2020, , 343-354.		0
10	Earth pressure balance shield tunneling in sandy gravel deposits: a case study of application of soil conditioning. Bulletin of Engineering Geology and the Environment, 2020, 79, 5013-5030.	3.5	31
11	Effect of curing condition and carbonization enhancement on mechanical properties of fly ash -desulfurization gypsum - steel slag blocks. Journal of CO2 Utilization, 2020, 38, 282-290.	6.8	20
12	Thermo-optically responsive phase change materials for passive temperature regulation. Solar Energy, 2020, 197, 222-228.	6.1	17
13	Performance of Geogrid-Reinforced and PTC Pile-Supported Embankment in a Highway Widening Project over Soft Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	3.0	25
14	Preparation of a geopolymer from red mud slurry and class F fly ash and its behavior at elevated temperatures. Construction and Building Materials, 2019, 221, 308-317.	7.2	92
15	Bitumenâ€™s microstructures are correlated with its bulk thermal and rheological properties. Fuel, 2019, 254, 115509.	6.4	26
16	Freeze-thaw durability of red mud slurry-class F fly ash-based geopolymer: Effect of curing conditions. Construction and Building Materials, 2019, 215, 381-390.	7.2	55
17	Understanding Free Volume Characteristics of Ethylene-Propylene-Diene Monomer (EPDM) through Molecular Dynamics Simulations. Materials, 2019, 12, 612.	2.9	21
18	A cement pasteâ€“tail sealant interface modified with a silane coupling agent for enhancing waterproofing performance in a concrete lining system. RSC Advances, 2019, 9, 7165-7175.	3.6	19

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19	The influence of Graphene quality on performance of a Si/Graphene nanocomposite anode. Materials Science and Technology, 2019, 35, 725-730.	1.6	6
20	Modeling the Polymerization Process for Geopolymer Synthesis through Reactive Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2018, 122, 6760-6773.	3.1	49
21	A numerical study of adaptive building enclosure systems using solidâ€“solid phase change materials with variable transparency. Energy and Buildings, 2018, 167, 240-252.	6.7	34
22	Time- and Composition-Dependent Evolution of Distinctive Microstructures in Bitumen. Energy & Fuels, 2018, 32, 67-80.	5.1	25
23	Impact of Flooding on Roadways. Developments in Geotechnical Engineering, 2018, , 385-397.	0.6	3
24	Reaction kinetics of red mud-fly ash based geopolymers: Effects of curing temperature on chemical bonding, porosity, and mechanical strength. Cement and Concrete Composites, 2018, 93, 175-185.	10.7	70
25	Effects of gravel content and particle size on abrasivity of sandy gravel mixtures. Engineering Geology, 2018, 243, 26-35.	6.3	26
26	Development of a methodology and a tool for the assessment of vulnerability of roadways to floodâ€induced damage. Journal of Flood Risk Management, 2017, 10, 301-313.	3.3	24
27	A multiscale investigation of reaction kinetics, phase formation, and mechanical properties of metakaolin geopolymers. Cement and Concrete Composites, 2017, 78, 21-32.	10.7	67
28	Laboratory Comparison of Rejuvenated 50% Reclaimed Asphalt Pavement Hot-Mix Asphalt with Conventional 20% RAP Mix. Transportation Research Record, 2017, 2633, 69-79.	1.9	20
29	Combined Model Framework for Asphalt Pavement Condition Determination After Flooding. Transportation Research Record, 2017, 2639, 64-72.	1.9	10
30	Review on solid-solid phase change materials for thermal energy storage: Molecular structure and thermal properties. Applied Thermal Engineering, 2017, 127, 1427-1441.	6.0	296
31	Durability of red mud-fly ash based geopolymer and leaching behavior of heavy metals in sulfuric acid solutions and deionized water. Construction and Building Materials, 2016, 124, 373-382.	7.2	137
32	Fiber-based optical trapping for cell mechanics study and microrheology. , 2016, , .		0
33	Surface microstructure of bitumen characterized by atomic force microscopy. Advances in Colloid and Interface Science, 2015, 218, 17-33.	14.7	117
34	Onset of erosion of a granular bed in a channel driven by fluid flow. Physics of Fluids, 2015, 27, 013301.	4.0	25
35	Calcium-free geopolymer as a stabilizer for sulfate-rich soils. Applied Clay Science, 2015, 108, 199-207.	5.2	82
36	Synthesis factors affecting mechanical properties, microstructure, and chemical composition of red mudâ€“fly ash based geopolymers. Fuel, 2014, 134, 315-325.	6.4	178

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37	Drag on intruders in granular beds: A boundary layer approach. Physical Review E, 2013, 88, 030201.	2.1	5
38	A systematic AFM-based method to measure adhesion differences between micron-sized domains in asphalt binders. Fuel, 2013, 113, 443-447.	6.4	96
39	Experimental feasibility study of geopolymer as the next-generation soil stabilizer. Construction and Building Materials, 2013, 47, 1468-1478.	7.2	334
40	Investigation of Moisture Content-Induced Variations in Unbound Aggregates' Resilient Modulous Through Suction Stress Concept. , 2013, , .		0
41	Statistical Approach to Determining Ground Vibration Monitoring Distance during Pile Driving. Practice Periodical on Structural Design and Construction, 2013, 18, 196-204.	1.3	6
42	Semi-infinite plates dragged through granular beds. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P07013.	2.3	5
43	Closure to â€œA Parametric Study on Factors Affecting Ground Vibrations during Pile Driving through Finite Element Simulationsâ€•by Mo Zhang and Mingjiang Tao. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 1300-1300.	3.0	0
44	Investigation of Moisture Susceptibility of Warm-Mix Asphalt Mixes through Laboratory Mechanical Testing. Transportation Research Record, 2012, 2295, 27-34.	1.9	8
45	A Parametric Study on Factors Affecting Ground Vibrations during Pile Driving through Finite Element Simulations. , 2011, , .		3
46	Practical Method to Understand the Effect of Aggregate Drying on the Moisture Content of Hot-Mix Asphalt. Transportation Research Record, 2011, 2208, 90-96.	1.9	6
47	Stabilizing blended calcium sulfate materials for roadway base construction. Construction and Building Materials, 2010, 24, 1861-1868.	7.2	7
48	Application of Shakedown Theory in Characterizing Traditional and Recycled Pavement Base Materials. Journal of Transportation Engineering, 2010, 136, 214-222.	0.9	101
49	Effects of Warm-Mix Asphalt Additives on Workability and Mechanical Properties of Reclaimed Asphalt Pavement Material. Transportation Research Record, 2009, 2126, 151-160.	1.9	125
50	Swelling Behavior of Compacted Cohesive Soils â€” An Absorbed Energy Approach. , 2009, , .		0
51	Laboratory Evaluation of Geogrid Base Reinforcement and Corresponding Instrumentation Program. Geotechnical Testing Journal, 2009, 32, 516-525.	1.0	10
52	Durability of Cement Stabilized Low Plasticity Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 203-213.	3.0	96
53	Optimize Drainable Unbound Aggregate through Laboratory Tests. , 2008, , .		4
54	Simple Procedure to Assess Performance and Cost Benefits of Using Recycled Materials in Pavement Construction. Journal of Materials in Civil Engineering, 2008, 20, 718-725.	2.9	5

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55	Numerical Parametric Study of Strip Footing on Reinforced Embankment Soils. Transportation Research Record, 2007, 2004, 132-140.	1.9	15
56	Discussion of â€œEffect of Gas on Pore Pressure in Wet Landfillsâ€•by Scott Merry, Wolfgang Fritz, Muniram Budhu, and Krzysztof Jesionek. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2007, 133, 1470-1472.	3.0	0
57	Field Testing Sections with Stabilized Blended Calcium Sulfate as Base Courses. Journal of Materials in Civil Engineering, 2007, 19, 329-339.	2.9	4
58	Effect of Soil Moisture Content and Dry Density on Cohesive Soilâ€“Geosynthetic Interactions Using Large Direct Shear Tests. Journal of Materials in Civil Engineering, 2007, 19, 540-549.	2.9	116
59	Enhanced Performance of Stabilized By-Product Gypsum. Journal of Materials in Civil Engineering, 2005, 17, 617-623.	2.9	15
60	Cohesive Slope Surface Failure and Evaluation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 898-906.	3.0	20
61	Evaluation of trench backfills at highway cross-drains. International Journal of Pavement Engineering, 2005, 6, 77-87.	4.4	3