

Waiching Tang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6847851/publications.pdf>

Version: 2024-02-01

83
papers

3,315
citations

117453

34
h-index

155451

55
g-index

85
all docs

85
docs citations

85
times ranked

2603
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on research progress of graphene/cement based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 273-296.	3.8	254
2	Experimental study on effects of CO ₂ concentrations on concrete carbonation and diffusion mechanisms. <i>Construction and Building Materials</i> , 2015, 93, 522-527.	3.2	160
3	The effects of aggregate properties on lightweight concrete. <i>Building and Environment</i> , 2007, 42, 3025-3029.	3.0	152
4	Experimental assessment of position of macro encapsulated phase change material in concrete walls on indoor temperatures and humidity levels. <i>Energy and Buildings</i> , 2014, 71, 80-87.	3.1	135
5	Mechanical and drying shrinkage properties of structural-graded polystyrene aggregate concrete. <i>Cement and Concrete Composites</i> , 2008, 30, 403-409.	4.6	131
6	Performance of FRP bonding systems under fatigue loading. <i>Engineering Structures</i> , 2008, 30, 3129-3140.	2.6	122
7	Development of structural-functional integrated energy storage concrete with innovative macro-encapsulated PCM by hollow steel ball. <i>Applied Energy</i> , 2017, 185, 107-118.	5.1	120
8	Robust evaluation of self-healing efficiency in cementitious materials – A review. <i>Construction and Building Materials</i> , 2015, 81, 233-247.	3.2	119
9	Engineering and microstructural assessment of fibre-reinforced self-compacting concrete containing recycled coarse aggregate. <i>Journal of Cleaner Production</i> , 2017, 168, 605-613.	4.6	115
10	Influence of red mud on fresh and hardened properties of self-compacting concrete. <i>Construction and Building Materials</i> , 2018, 178, 288-300.	3.2	88
11	The effect of aggregate absorption on pore area at interfacial zone of lightweight concrete. <i>Construction and Building Materials</i> , 2008, 22, 623-628.	3.2	72
12	Effect of carbon fiber and nanosilica on shear properties of silty soil and the mechanisms. <i>Construction and Building Materials</i> , 2018, 189, 286-295.	3.2	70
13	Influence of red mud on mechanical and durability performance of self-compacting concrete. <i>Journal of Hazardous Materials</i> , 2019, 379, 120802.	6.5	64
14	Effect of carbon fibers grafted with carbon nanotubes on mechanical properties of cement-based composites. <i>Construction and Building Materials</i> , 2018, 181, 713-720.	3.2	62
15	Flexural strengthening of reinforced lightweight polystyrene aggregate concrete beams with near-surface mounted GFRP bars. <i>Building and Environment</i> , 2006, 41, 1381-1393.	3.0	61
16	Effects of nano silica on the properties of cement-based materials: A comprehensive review. <i>Construction and Building Materials</i> , 2021, 282, 122715.	3.2	60
17	Development of novel composite PCM for thermal energy storage using CaCl ₂ ·6H ₂ O with graphene oxide and SrCl ₂ ·6H ₂ O. <i>Energy and Buildings</i> , 2017, 156, 163-172.	3.1	56
18	Experimental study of carbon fiber reinforced alkali-activated slag composites with micro-encapsulated PCM for energy storage. <i>Construction and Building Materials</i> , 2018, 161, 442-451.	3.2	56

#	ARTICLE	IF	CITATIONS
19	Parametric analysis and optimisation of energy efficiency of a lightweight building integrated with different configurations and types of PCM. <i>Renewable Energy</i> , 2021, 168, 865-877.	4.3	56
20	Development of novel form-stable phase change material (PCM) composite using recycled expanded glass for thermal energy storage in cementitious composite. <i>Renewable Energy</i> , 2021, 175, 14-28.	4.3	55
21	Experimental observations and SVM-based prediction of properties of polypropylene fibres reinforced self-compacting composites incorporating nano-CuO. <i>Construction and Building Materials</i> , 2017, 143, 589-598.	3.2	54
22	Chloride Diffusion and Acid Resistance of Concrete Containing Zeolite and Tuff as Partial Replacements of Cement and Sand. <i>Materials</i> , 2017, 10, 372.	1.3	54
23	Development of thermal energy storage lightweight structural cementitious composites by means of macro-encapsulated PCM. <i>Construction and Building Materials</i> , 2019, 225, 182-195.	3.2	52
24	Development of high performance PCM cement composites for passive solar buildings. <i>Energy and Buildings</i> , 2019, 194, 33-45.	3.1	52
25	Experimental Study on the Influence of Water Absorption of Recycled Coarse Aggregates on Properties of the Resulting Concretes. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	1.3	51
26	Comparison of carbonation of lightweight concrete with normal weight concrete at similar strength levels. <i>Construction and Building Materials</i> , 2008, 22, 1648-1655.	3.2	47
27	Mechanical and fracture properties of normal- and high-strength concretes with fly ash after exposure to high temperatures. <i>Magazine of Concrete Research</i> , 2009, 61, 323-330.	0.9	47
28	Thermal performance and corrosion resistance of structural-functional concrete made with inorganic PCM. <i>Construction and Building Materials</i> , 2020, 249, 118768.	3.2	45
29	Development of vegetation concrete technology for slope protection and greening. <i>Construction and Building Materials</i> , 2018, 179, 605-613.	3.2	42
30	Development of Hollow Steel Ball Macro-Encapsulated PCM for Thermal Energy Storage Concrete. <i>Materials</i> , 2016, 9, 59.	1.3	41
31	Creep and creep recovery properties of polystyrene aggregate concrete. <i>Construction and Building Materials</i> , 2014, 51, 338-343.	3.2	39
32	Effect of Graphene Oxide (GO) on the Morphology and Microstructure of Cement Hydration Products. <i>Nanomaterials</i> , 2017, 7, 429.	1.9	39
33	Properties of Self-Compacting Concrete with Recycled Coarse Aggregate. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-11.	1.0	37
34	Development of a stable inorganic phase change material for thermal energy storage in buildings. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110420.	3.0	37
35	Application of FRP bars as reinforcement in civil engineering structures. <i>Structural Survey</i> , 2002, 20, 62-72.	1.0	35
36	Bond performance of polystyrene aggregate concrete (PAC) reinforced with glass-fibre-reinforced polymer (GFRP) bars. <i>Building and Environment</i> , 2008, 43, 98-107.	3.0	32

#	ARTICLE	IF	CITATIONS
37	Thermophysical and Mechanical Properties of Hardened Cement Paste with Microencapsulated Phase Change Materials for Energy Storage. <i>Materials</i> , 2014, 7, 8070-8087.	1.3	32
38	Development of Vegetation-Permeable Concrete in Grid Beam System for Soil Slope Protection. <i>Materials</i> , 2017, 10, 96.	1.3	31
39	Thermal and Mechanical Properties of Cement Mortar Composite Containing Recycled Expanded Glass Aggregate and Nano Titanium Dioxide. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2246.	1.3	31
40	Evaluation of carbonation resistance of paint coated concrete for buildings. <i>Construction and Building Materials</i> , 2016, 107, 299-306.	3.2	28
41	The effect of high temperature curing on the strength and carbonation of pozzolanic structural lightweight concretes. <i>Construction and Building Materials</i> , 2009, 23, 1306-1310.	3.2	27
42	Effect of Architectural Building Design Parameters on Thermal Comfort and Energy Consumption in Higher Education Buildings. <i>Buildings</i> , 2022, 12, 329.	1.4	27
43	Fracture properties of normal and lightweight high-strength concrete. <i>Magazine of Concrete Research</i> , 2008, 60, 237-244.	0.9	25
44	Influence of Surface Treatment of Recycled Aggregates on Mechanical Properties and Bond Strength of Self-Compacting Concrete. <i>Sustainability</i> , 2019, 11, 4182.	1.6	24
45	Study on Utilization of Carboxyl Group Decorated Carbon Nanotubes and Carbonation Reaction for Improving Strengths and Microstructures of Cement Paste. <i>Nanomaterials</i> , 2016, 6, 153.	1.9	22
46	Discussion and experiments on the limits of chloride, sulphate and shell content in marine fine aggregates for concrete. <i>Construction and Building Materials</i> , 2018, 159, 725-733.	3.2	22
47	A practical ranking system for evaluation of industry viable phase change materials for use in concrete. <i>Construction and Building Materials</i> , 2018, 177, 272-286.	3.2	21
48	Prediction of Self-Healing of Engineered Cementitious Composite Using Machine Learning Approaches. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3605.	1.3	21
49	Effect of carbon nanotubes on properties of alkali activated slag – A mechanistic study. <i>Journal of Cleaner Production</i> , 2020, 245, 119021.	4.6	20
50	Experimental study on thermal response of a PCM energy pile in unsaturated clay. <i>Renewable Energy</i> , 2022, 185, 790-803.	4.3	20
51	Hydration Characteristics of Tricalcium Aluminate in the Presence of Nano-Silica. <i>Nanomaterials</i> , 2021, 11, 199.	1.9	18
52	Experimental investigation on mechanical properties of clay soil reinforced with carbon fiber. <i>Construction and Building Materials</i> , 2021, 280, 122517.	3.2	18
53	Effect of Nano-CuO on Engineering and Microstructure Properties of Fibre-Reinforced Mortars Incorporating Metakaolin: Experimental and Numerical Studies. <i>Materials</i> , 2017, 10, 1215.	1.3	15
54	Investigation of the Role of Nano-Titanium on Corrosion and Thermal Performance of Structural Concrete with Macro-Encapsulated PCM. <i>Molecules</i> , 2019, 24, 1360.	1.7	15

#	ARTICLE	IF	CITATIONS
55	Experimental Investigation of Chloride Uptake Performances of Hydrocalumite-Like Ca-Al LDHs with Different Microstructures. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3760.	1.3	14
56	Fracture Properties of Polystyrene Aggregate Concrete after Exposure to High Temperatures. <i>Materials</i> , 2016, 9, 630.	1.3	13
57	Thermo-Mechanical Performance of a Phase Change Energy Pile in Saturated Sand. <i>Symmetry</i> , 2020, 12, 1781.	1.1	13
58	Study on the interaction mechanism between slags and alkali silicate activators: A hydration kinetics approach. <i>Construction and Building Materials</i> , 2020, 250, 118900.	3.2	13
59	Effect of Summer Ventilation on the Thermal Performance and Energy Efficiency of Buildings Utilizing Phase Change Materials. <i>Energies</i> , 2017, 10, 1214.	1.6	12
60	Mechanical and Thermo-Physical Performances of Gypsum-Based PCM Composite Materials Reinforced with Carbon Fiber. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 468.	1.3	12
61	Chemicals of concern in construction and demolition waste fine residues: A systematic literature review. <i>Journal of Environmental Management</i> , 2021, 299, 113654.	3.8	12
62	Experimental Investigation on Graphene Oxide/SrCl ₂ ·6H ₂ O Modified CaCl ₂ ·6H ₂ O and the Resulting Thermal Performances. <i>Materials</i> , 2018, 11, 1507.	1.3	11
63	Static liquefaction behavior of short discrete carbon fiber reinforced silty sand. <i>Geosynthetics International</i> , 2020, 27, 606-619.	1.5	10
64	Study of short term shrinkage and creep of lightweight concrete. <i>Materials Research Innovations</i> , 2008, 12, 151-154.	1.0	9
65	Experimental Investigation of the Effect of Manufactured Sand and Lightweight Sand on the Properties of Fresh and Hardened Self-Compacting Lightweight Concretes. <i>Materials</i> , 2016, 9, 735.	1.3	8
66	Influence and mechanisms of active silica in solid waste on hydration of tricalcium aluminate in the resulting composite cement. <i>Materials Today Communications</i> , 2021, 27, 102262.	0.9	8
67	Strength and durability performance of HPC incorporating pozzolans at elevated temperatures. <i>Structural Survey</i> , 2002, 20, 123-128.	1.0	7
68	Structural-functional integrated concrete with macro-encapsulated inorganic PCM. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	7
69	Properties of self-compacting concrete with recycled concrete aggregates. , 2020, , 219-248.		7
70	Experimental Study of 3D Concrete Printing Configurations Based on the Buildability Evaluation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2939.	1.3	7
71	Shear strengthening of polystyrene aggregate concrete beams with near surface mounted GFRP bars. <i>Materials Research Innovations</i> , 2010, 14, 138-145.	1.0	5
72	Effects of thermal conductive fillers on energy storage performance of Form-Stable phase change material integrated in Cement-Based composites. <i>Applied Thermal Engineering</i> , 2022, 212, 118570.	3.0	4

#	ARTICLE	IF	CITATIONS
73	Phase constitution at interfacial between lightweight aggregate/concrete cement paste composite. Materials Research Innovations, 2008, 12, 123-126.	1.0	3
74	Fibre reinforced polymer materials for prestressed concrete structures. Structural Survey, 2003, 21, 95-101.	1.0	2
75	Mechanical and Durability Properties of Concrete Using Dredged Marine Sand. Materials Science Forum, 0, 890, 406-410.	0.3	2
76	Evaluation of design options for green product development: a combined Cuckoo search and life cycle assessment approach. International Journal of Life Cycle Assessment, 2022, 27, 665-679.	2.2	2
77	Fracture properties of concrete with waste compact disc shred. Materials Research Innovations, 2008, 12, 179-183.	1.0	1
78	Special Issue on Green Concrete for a Better Sustainable Environment. Applied Sciences (Switzerland), 2020, 10, 2572.	1.3	1
79	Modelling transformative adaptation: Case of post-earthquake Lyttelton, New Zealand. Environmental Science and Policy, 2021, 125, 247-262.	2.4	1
80	Investigation of Permeability of Structural Lightweight Aggregate Concrete. Advanced Science Letters, 2012, 15, 176-178.	0.2	0
81	Functionality assessment of concrete containing a dual-layer coated macro-encapsulated PCM. International Journal of Smart Grid and Clean Energy, 2019, , 517-521.	0.4	0
82	Red Mud. , 2022, , 577-606.		0
83	Modelling the Roles of Community-Based Organisations in Post-Disaster Transformative Adaptation. GeoHazards, 2022, 3, 178-198.	0.8	0