

Waiching Tang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

2,043
citations

26
h-index

43
g-index

85
ext. papers

2,643
ext. citations

5.1
avg, IF

5.46
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 80 | A critical review on research progress of graphene/cement based composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 102, 273-296 | 8.4 | 165 |
| 79 | The effects of aggregate properties on lightweight concrete. <i>Building and Environment</i> , 2007 , 42, 3025-3039 | 6.9 | 123 |
| 78 | Mechanical and drying shrinkage properties of structural-graded polystyrene aggregate concrete. <i>Cement and Concrete Composites</i> , 2008 , 30, 403-409 | 8.6 | 104 |
| 77 | Experimental study on effects of CO ₂ concentrations on concrete carbonation and diffusion mechanisms. <i>Construction and Building Materials</i> , 2015 , 93, 522-527 | 6.7 | 102 |
| 76 | 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 | 7 | 99 |
| 75 | Performance of FRP bonding systems under fatigue loading. <i>Engineering Structures</i> , 2008 , 30, 3129-3140 | 4.7 | 98 |
| 74 | Engineering and microstructural assessment of fibre-reinforced self-compacting concrete containing recycled coarse aggregate. <i>Journal of Cleaner Production</i> , 2017 , 168, 605-613 | 10.3 | 91 |
| 73 | Robust evaluation of self-healing efficiency in cementitious materials – A review. <i>Construction and Building Materials</i> , 2015 , 81, 233-247 | 6.7 | 83 |
| 72 | 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 | 10.7 | 78 |
| 71 | Influence of red mud on fresh and hardened properties of self-compacting concrete. <i>Construction and Building Materials</i> , 2018 , 178, 288-300 | 6.7 | 56 |
| 70 | The effect of aggregate absorption on pore area at interfacial zone of lightweight concrete. <i>Construction and Building Materials</i> , 2008 , 22, 623-628 | 6.7 | 55 |
| 69 | Flexural strengthening of reinforced lightweight polystyrene aggregate concrete beams with near-surface mounted GFRP bars. <i>Building and Environment</i> , 2006 , 41, 1381-1393 | 6.5 | 49 |
| 68 | 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, 04014138 | 3 | 37 |
| 67 | 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 | 6.7 | 37 |
| 66 | 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 | 6.7 | 36 |
| 65 | Comparison of carbonation of lightweight concrete with normal weight concrete at similar strength levels. <i>Construction and Building Materials</i> , 2008 , 22, 1648-1655 | 6.7 | 33 |
| 64 | Chloride Diffusion and Acid Resistance of Concrete Containing Zeolite and Tuff as Partial Replacements of Cement and Sand. <i>Materials</i> , 2017 , 10, | 3.5 | 32 |

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| 63 | 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 | 6.7 | 32 |
| 62 | 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 | 7 | 31 |
| 61 | 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 | 6.7 | 31 |
| 60 | Influence of red mud on mechanical and durability performance of self-compacting concrete. <i>Journal of Hazardous Materials</i> , 2019 , 379, 120802 | 12.8 | 30 |
| 59 | Creep and creep recovery properties of polystyrene aggregate concrete. <i>Construction and Building Materials</i> , 2014 , 51, 338-343 | 6.7 | 30 |
| 58 | Development of high performance PCM cement composites for passive solar buildings. <i>Energy and Buildings</i> , 2019 , 194, 33-45 | 7 | 27 |
| 57 | 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 | 6.7 | 27 |
| 56 | Thermophysical and Mechanical Properties of Hardened Cement Paste with Microencapsulated Phase Change Materials for Energy Storage. <i>Materials</i> , 2014 , 7, 8070-8087 | 3.5 | 26 |
| 55 | Bond performance of polystyrene aggregate concrete (PAC) reinforced with glass-fibre-reinforced polymer (GFRP) bars. <i>Building and Environment</i> , 2008 , 43, 98-107 | 6.5 | 26 |
| 54 | 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 | 2 | 25 |
| 53 | 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 | 6.7 | 25 |
| 52 | Development of Hollow Steel Ball Macro-Encapsulated PCM for Thermal Energy Storage Concrete. <i>Materials</i> , 2016 , 9, | 3.5 | 25 |
| 51 | Application of FRP bars as reinforcement in civil engineering structures. <i>Structural Survey</i> , 2002 , 20, 62-72 | | 24 |
| 50 | Properties of Self-Compacting Concrete with Recycled Coarse Aggregate. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-11 | 1.5 | 23 |
| 49 | Development of vegetation concrete technology for slope protection and greening. <i>Construction and Building Materials</i> , 2018 , 179, 605-613 | 6.7 | 22 |
| 48 | Effect of Graphene Oxide (GO) on the Morphology and Microstructure of Cement Hydration Products. <i>Nanomaterials</i> , 2017 , 7, | 5.4 | 21 |
| 47 | Evaluation of carbonation resistance of paint coated concrete for buildings. <i>Construction and Building Materials</i> , 2016 , 107, 299-306 | 6.7 | 20 |
| 46 | Fracture properties of normal and lightweight high-strength concrete. <i>Magazine of Concrete Research</i> , 2008 , 60, 237-244 | 2 | 19 |

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| 45 | Thermal performance and corrosion resistance of structural-functional concrete made with inorganic PCM. <i>Construction and Building Materials</i> , 2020 , 249, 118768 | 6.7 | 18 |
| 44 | 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 | 2.6 | 16 |
| 43 | 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 | 6.7 | 16 |
| 42 | 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 | 8.1 | 16 |
| 41 | Effects of nano silica on the properties of cement-based materials: A comprehensive review. <i>Construction and Building Materials</i> , 2021 , 282, 122715 | 6.7 | 16 |
| 40 | Influence of Surface Treatment of Recycled Aggregates on Mechanical Properties and Bond Strength of Self-Compacting Concrete. <i>Sustainability</i> , 2019 , 11, 4182 | 3.6 | 15 |
| 39 | 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 | 6.4 | 15 |
| 38 | Development of Vegetation-Pervious Concrete in Grid Beam System for Soil Slope Protection. <i>Materials</i> , 2017 , 10, | 3.5 | 13 |
| 37 | 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, | 5.4 | 13 |
| 36 | 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 | 6.7 | 12 |
| 35 | Effect of Nano-CuO on Engineering and Microstructure Properties of Fibre-Reinforced Mortars Incorporating Metakaolin: Experimental and Numerical Studies. <i>Materials</i> , 2017 , 10, | 3.5 | 11 |
| 34 | Fracture Properties of Polystyrene Aggregate Concrete after Exposure to High Temperatures. <i>Materials</i> , 2016 , 9, | 3.5 | 11 |
| 33 | Investigation of the Role of Nano-Titanium on Corrosion and Thermal Performance of Structural Concrete with Macro-Encapsulated PCM. <i>Molecules</i> , 2019 , 24, | 4.8 | 10 |
| 32 | Effect of Summer Ventilation on the Thermal Performance and Energy Efficiency of Buildings Utilizing Phase Change Materials. <i>Energies</i> , 2017 , 10, 1214 | 3.1 | 10 |
| 31 | 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 | 8.1 | 10 |
| 30 | Effect of carbon nanotubes on properties of alkali activated slag FA mechanistic study. <i>Journal of Cleaner Production</i> , 2020 , 245, 119021 | 10.3 | 9 |
| 29 | Study on the interaction mechanism between slags and alkali silicate activators: A hydration kinetics approach. <i>Construction and Building Materials</i> , 2020 , 250, 118900 | 6.7 | 8 |
| 28 | Study of short term shrinkage and creep of lightweight concrete. <i>Materials Research Innovations</i> , 2008 , 12, 151-154 | 1.9 | 7 |

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| 27 | Thermo-Mechanical Performance of a Phase Change Energy Pile in Saturated Sand. <i>Symmetry</i> , 2020 , 12, 1781 | 2.7 | 6 |
| 26 | Structural-functional integrated concrete with macro-encapsulated inorganic PCM 2017 , | | 6 |
| 25 | Experimental investigation on mechanical properties of clay soil reinforced with carbon fiber. <i>Construction and Building Materials</i> , 2021 , 280, 122517 | 6.7 | 6 |
| 24 | 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, | 3.5 | 6 |
| 23 | Hydration Characteristics of Tricalcium Aluminate in the Presence of Nano-Silica. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 6 |
| 22 | Shear strengthening of polystyrene aggregate concrete beams with near surface mounted GFRP bars. <i>Materials Research Innovations</i> , 2010 , 14, 138-145 | 1.9 | 5 |
| 21 | Strength and durability performance of HPC incorporating pozzolans at elevated temperatures. <i>Structural Survey</i> , 2002 , 20, 123-128 | | 5 |
| 20 | 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, | 3.5 | 5 |
| 19 | Static liquefaction behavior of short discrete carbon fiber reinforced silty sand. <i>Geosynthetics International</i> , 2020 , 27, 606-619 | 3.3 | 4 |
| 18 | Experimental Investigation of Chloride Uptake Performances of Hydrocalumite-Like Ca-Al LDHs with Different Microstructures. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3760 | 2.6 | 4 |
| 17 | Properties of self-compacting concrete with recycled concrete aggregates 2020 , 219-248 | | 4 |
| 16 | Experimental Study of 3D Concrete Printing Configurations Based on the Buildability Evaluation. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2939 | 2.6 | 3 |
| 15 | Effect of Architectural Building Design Parameters on Thermal Comfort and Energy Consumption in Higher Education Buildings. <i>Buildings</i> , 2022 , 12, 329 | 3.2 | 3 |
| 14 | Phase constitution at interfacial between lightweight aggregate/concrete cement paste composite. <i>Materials Research Innovations</i> , 2008 , 12, 123-126 | 1.9 | 2 |
| 13 | Mechanical and Thermo-Physical Performances of Gypsum-Based PCM Composite Materials Reinforced with Carbon Fiber. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 468 | 2.6 | 2 |
| 12 | Prediction of Self-Healing of Engineered Cementitious Composite Using Machine Learning Approaches. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3605 | 2.6 | 2 |
| 11 | Mechanical and Durability Properties of Concrete Using Dredged Marine Sand. <i>Materials Science Forum</i> , 2017 , 890, 406-410 | 0.4 | 1 |
| 10 | Fracture properties of concrete with waste compact disc shred. <i>Materials Research Innovations</i> , 2008 , 12, 179-183 | 1.9 | 1 |

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| 9 | Fibre reinforced polymer materials for prestressed concrete structures. <i>Structural Survey</i> , 2003 , 21, 95-101 | | 1 |
| 8 | 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 | 2.5 | 1 |
| 7 | Modelling transformative adaptation: Case of post-earthquake Lyttelton, New Zealand. <i>Environmental Science and Policy</i> , 2021 , 125, 247-262 | 6.2 | 1 |
| 6 | Chemicals of concern in construction and demolition waste fine residues: A systematic literature review. <i>Journal of Environmental Management</i> , 2021 , 299, 113654 | 7.9 | 1 |
| 5 | Experimental study on thermal response of a PCM energy pile in unsaturated clay. <i>Renewable Energy</i> , 2022 , 185, 790-803 | 8.1 | 0 |
| 4 | 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 | 5.8 | 0 |
| 3 | Red Mud 2022 , 577-606 | | |
| 2 | Modelling the Roles of Community-Based Organisations in Post-Disaster Transformative Adaptation. <i>GeoHazards</i> , 2022 , 3, 178-198 | 2.3 | |
| 1 | Evaluation of design options for green product development: a combined Cuckoo search and life cycle assessment approach. <i>International Journal of Life Cycle Assessment</i> , 2022 , 27, 665 | 4.6 | |