

Ser Tong Quek

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.

40
papers

1,053
citations

15
h-index

32
g-index

43
ext. papers

1,254
ext. citations

3.9
avg, IF

4.43
L-index

#	Paper	IF	Citations
40	Behavior of Hybrid-Fiber Engineered Cementitious Composites Subjected to Dynamic Tensile Loading and Projectile Impact. <i>Journal of Materials in Civil Engineering</i> , 2005 , 17, 143-152	3	185
39	Mechanical behavior of fiber-reinforced high-strength concrete subjected to high strain-rate compressive loading. <i>Construction and Building Materials</i> , 2012 , 31, 1-11	6.7	111
38	Design of hybrid controller for dynamic positioning from calm to extreme sea conditions. <i>Automatica</i> , 2007 , 43, 768-785	5.7	100
37	Reliability analysis with scarce information: Comparing alternative approaches in a geotechnical engineering context. <i>Structural Safety</i> , 2013 , 41, 1-10	4.9	87
36	Performance of Hybrid-Fiber ECC Blast/Shelter Panels Subjected to Drop Weight Impact. <i>Journal of Materials in Civil Engineering</i> , 2007 , 19, 855-863	3	74
35	Applications of Piezoelectric Materials in Structural Health Monitoring and Repair: Selected Research Examples. <i>Materials</i> , 2010 , 3, 5169-5194	3.5	73
34	Effect of high strain rate loading on compressive behaviour of fibre-reinforced high-strength concrete. <i>Magazine of Concrete Research</i> , 2011 , 63, 813-827	2	51
33	Long-term performance assessment and design of offshore structures. <i>Computers and Structures</i> , 2015 , 154, 101-115	4.5	47
32	Remote flood monitoring system based on plastic optical fibres and wireless motes. <i>Sensors and Actuators A: Physical</i> , 2008 , 147, 449-455	3.9	40
31	Effect of high strain rate on compressive behavior of strain-hardening cement composite in comparison to that of ordinary fiber-reinforced concrete. <i>Construction and Building Materials</i> , 2017 , 136, 31-43	6.7	32
30	System identification of linear MDOF structures under ambient excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 1999 , 28, 61-77	4	30
29	Smart multifunctional cement mortar containing graphite nanoplatelet 2013 ,		20
28	Multi-Operational Controller Structure for Station Keeping and Transit Operations of Marine Vessels. <i>IEEE Transactions on Control Systems Technology</i> , 2008 , 16, 491-498	4.8	17
27	Isogeometric shape optimization of smoothed petal auxetics with prescribed nonlinear deformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 356, 16-43	5.7	16
26	Effects of particle arrangement and particle damage on the mechanical response of metal matrix nanocomposites: A numerical analysis. <i>Acta Materialia</i> , 2012 , 60, 8-21	8.4	15
25	Wave boundary element to study Lamb wave propagation in plates. <i>Journal of Sound and Vibration</i> , 2005 , 288, 195-213	3.9	15
24	Frequency-domain analysis of non-linear wave effects on offshore platform responses. <i>International Journal of Non-Linear Mechanics</i> , 2007 , 42, 555-565	2.8	13

23	Discrete dislocation analysis of the mechanical response of silicon carbide reinforced aluminum nanocomposites. <i>Composites Part B: Engineering</i> , 2011 , 42, 92-98	10	12
22	Strain and damage self-sensing cement composites with conductive graphene nanoplatelet 2014 ,		11
21	Development of a low-cost bi-axial intensity-based optical fibre accelerometer for wind turbine blades. <i>Sensors and Actuators A: Physical</i> , 2013 , 197, 126-135	3.9	11
20	Statistical Model of Boulder Size and Fraction. <i>Journal of Geotechnical Engineering</i> , 1986 , 112, 79-90		11
19	Hybrid approach to seismic reliability assessment of engineering structures. <i>Engineering Structures</i> , 2017 , 153, 665-673	4.7	10
18	Isogeometric shape optimization of missing rib auxetics with prescribed negative Poisson's ratio over large strains using genetic algorithm. <i>International Journal of Mechanical Sciences</i> , 2021 , 193, 106169	5.5	10
17	Impact behaviour and design optimization of a ductile scale-cellular composite structure for protection against localized impact. <i>International Journal of Solids and Structures</i> , 2017 , 122-123, 162-174	2.1	9
16	Compressive Behavior of Plain and Fiber-Reinforced High-Strength Concrete Subjected to High Strain Rate Loading. <i>Applied Mechanics and Materials</i> , 2011 , 82, 57-62	0.3	9
15	Plastic Optical Fiber Sensors for Measurement of Large Strain in Geotextile Materials. <i>Advanced Materials Research</i> , 2008 , 47-50, 1233-1236	0.5	8
14	Non-Gaussian Random Wave Simulation by Two-Dimensional Fourier Transform and Linear Oscillator Response to Morison Force. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2007 , 129, 327-334	1.5	8
13	Static and dynamic tensile behaviour of PE-fibrous ferrocement. <i>Magazine of Concrete Research</i> , 2011 , 63, 61-73	2	7
12	Fish scale-cellular composite system for protection against low-velocity impact. <i>Composite Structures</i> , 2016 , 145, 217-225	5.3	6
11	Effect of Specimen Size on Static Strength and Dynamic Increase Factor of High-Strength Concrete from SHPB Test. <i>Journal of Testing and Evaluation</i> , 2011 , 39, 103370	1	4
10	Finite element modeling of the micropipette aspiration of malaria-infected red blood cells 2005 ,		3
9	Limit load analysis of a semi-infinite beam on rigid foundation. <i>International Journal of Mechanical Sciences</i> , 1991 , 33, 403-412	5.5	2
8	Numerical Simulation of Non-Gaussian Wave Elevation and Kinematics Based on Two-Dimensional Fourier Transform 2006 ,		2
7	Does representative volume element exist for quasi-brittle composites?. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7757-7767	5.3	1
6	Reliability of Switched Model-Based Controller for Vessel Dynamic Positioning With Switching Under Estimated Motion Frequency. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2010 , 132,	1.5	1

- 5 Structural Damage Detection Accounting for Loss of Data in Wireless Network Sensors. *Key Engineering Materials*, **2009**, 413-414, 125-132 0.4 1
- 4 Plastic optical fibre sensor for structural health monitoring **2005**, 1
- 3 Bayesian Filter for Parameter Identification in Time Domain **2022**, 35-72
- 2 Some Studies on Automatic Generation of Structural Failure Modes. *Lecture Notes in Engineering*, **1991**, 273-285
- 1 Efficient subset simulation with active learning Kriging model for low failure probability prediction. *Probabilistic Engineering Mechanics*, **2022**, 68, 103256 2.6