

# Ser Tong Quek

## List of Publications by Year in Descending Order

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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	Bayesian Filter for Parameter Identification in Time Domain <b>2022</b> , 35-72		
39	Efficient subset simulation with active learning Kriging model for low failure probability prediction. <i>Probabilistic Engineering Mechanics</i> , <b>2022</b> , 68, 103256	2.6	
38	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> , <b>2021</b> , 193, 106169	5.5	10
37	Isogeometric shape optimization of smoothed petal auxetics with prescribed nonlinear deformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 356, 16-43	5.7	16
36	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> , <b>2017</b> , 136, 31-43	6.7	32
35	Hybrid approach to seismic reliability assessment of engineering structures. <i>Engineering Structures</i> , <b>2017</b> , 153, 665-673	4.7	10
34	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> , <b>2017</b> , 122-123, 162-174	2.1	9
33	Fish scale-cellular composite system for protection against low-velocity impact. <i>Composite Structures</i> , <b>2016</b> , 145, 217-225	5.3	6
32	Long-term performance assessment and design of offshore structures. <i>Computers and Structures</i> , <b>2015</b> , 154, 101-115	4.5	47
31	Strain and damage self-sensing cement composites with conductive graphene nanoplatelet <b>2014</b> ,		11
30	Reliability analysis with scarce information: Comparing alternative approaches in a geotechnical engineering context. <i>Structural Safety</i> , <b>2013</b> , 41, 1-10	4.9	87
29	Development of a low-cost bi-axial intensity-based optical fibre accelerometer for wind turbine blades. <i>Sensors and Actuators A: Physical</i> , <b>2013</b> , 197, 126-135	3.9	11
28	Smart multifunctional cement mortar containing graphite nanoplatelet <b>2013</b> ,		20
27	Mechanical behavior of fiber-reinforced high-strength concrete subjected to high strain-rate compressive loading. <i>Construction and Building Materials</i> , <b>2012</b> , 31, 1-11	6.7	111
26	Effects of particle arrangement and particle damage on the mechanical response of metal matrix nanocomposites: A numerical analysis. <i>Acta Materialia</i> , <b>2012</b> , 60, 8-21	8.4	15
25	Does representative volume element exist for quasi-brittle composites?. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 7757-7767	5.3	1
24	Discrete dislocation analysis of the mechanical response of silicon carbide reinforced aluminum nanocomposites. <i>Composites Part B: Engineering</i> , <b>2011</b> , 42, 92-98	10	12

23	Compressive Behavior of Plain and Fiber-Reinforced High-Strength Concrete Subjected to High Strain Rate Loading. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 82, 57-62	0.3	9
22	Effect of high strain rate loading on compressive behaviour of fibre-reinforced high-strength concrete. <i>Magazine of Concrete Research</i> , <b>2011</b> , 63, 813-827	2	51
21	Static and dynamic tensile behaviour of PE-fibrous ferrocement. <i>Magazine of Concrete Research</i> , <b>2011</b> , 63, 61-73	2	7
20	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> , <b>2011</b> , 39, 103370	1	4
19	Applications of Piezoelectric Materials in Structural Health Monitoring and Repair: Selected Research Examples. <i>Materials</i> , <b>2010</b> , 3, 5169-5194	3.5	73
18	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> , <b>2010</b> , 132,	1.5	1
17	Structural Damage Detection Accounting for Loss of Data in Wireless Network Sensors. <i>Key Engineering Materials</i> , <b>2009</b> , 413-414, 125-132	0.4	1
16	Plastic Optical Fiber Sensors for Measurement of Large Strain in Geotextile Materials. <i>Advanced Materials Research</i> , <b>2008</b> , 47-50, 1233-1236	0.5	8
15	Multi-Operational Controller Structure for Station Keeping and Transit Operations of Marine Vessels. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 491-498	4.8	17
14	Remote flood monitoring system based on plastic optical fibres and wireless motes. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 147, 449-455	3.9	40
13	Design of hybrid controller for dynamic positioning from calm to extreme sea conditions. <i>Automatica</i> , <b>2007</b> , 43, 768-785	5.7	100
12	Frequency-domain analysis of non-linear wave effects on offshore platform responses. <i>International Journal of Non-Linear Mechanics</i> , <b>2007</b> , 42, 555-565	2.8	13
11	Performance of Hybrid-Fiber ECC Blast/Shelter Panels Subjected to Drop Weight Impact. <i>Journal of Materials in Civil Engineering</i> , <b>2007</b> , 19, 855-863	3	74
10	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> , <b>2007</b> , 129, 327-334	1.5	8
9	Numerical Simulation of Non-Gaussian Wave Elevation and Kinematics Based on Two-Dimensional Fourier Transform <b>2006</b> ,		2
8	Finite element modeling of the micropipette aspiration of malaria-infected red blood cells <b>2005</b> ,		3
7	Plastic optical fibre sensor for structural health monitoring <b>2005</b> ,		1
6	Wave boundary element to study Lamb wave propagation in plates. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 288, 195-213	3.9	15

5	Behavior of Hybrid-Fiber Engineered Cementitious Composites Subjected to Dynamic Tensile Loading and Projectile Impact. <i>Journal of Materials in Civil Engineering</i> , <b>2005</b> , 17, 143-152	3	185
4	System identification of linear MDOF structures under ambient excitation. <i>Earthquake Engineering and Structural Dynamics</i> , <b>1999</b> , 28, 61-77	4	30
3	Limit load analysis of a semi-infinite beam on rigid foundation. <i>International Journal of Mechanical Sciences</i> , <b>1991</b> , 33, 403-412	5.5	2
2	Some Studies on Automatic Generation of Structural Failure Modes. <i>Lecture Notes in Engineering</i> , <b>1991</b> , 273-285		
1	Statistical Model of Boulder Size and Fraction. <i>Journal of Geotechnical Engineering</i> , <b>1986</b> , 112, 79-90		11