

Ser Tong Quek

List of Publications by Year in descending order

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41
papers

1,448
citations

471477

17
h-index

414395

32
g-index

43
all docs

43
docs citations

43
times ranked

1309
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.9	235
2	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.	7.2	142
3	Design of hybrid controller for dynamic positioning from calm to extreme sea conditions. <i>Automatica</i> , 2007, 43, 768-785.	5.0	130
4	Applications of Piezoelectric Materials in Structural Health Monitoring and Repair: Selected Research Examples. <i>Materials</i> , 2010, 3, 5169-5194.	2.9	113
5	Reliability analysis with scarce information: Comparing alternative approaches in a geotechnical engineering context. <i>Structural Safety</i> , 2013, 41, 1-10.	5.3	110
6	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.	2.9	88
7	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.	2.0	71
8	Long-term performance assessment and design of offshore structures. <i>Computers and Structures</i> , 2015, 154, 101-115.	4.4	62
9	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.	7.2	53
10	Remote flood monitoring system based on plastic optical fibres and wireless nodes. <i>Sensors and Actuators A: Physical</i> , 2008, 147, 449-455.	4.1	49
11	Isogeometric shape optimization of smoothed petal auxetics with prescribed nonlinear deformation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 356, 16-43.	6.6	40
12	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.	6.7	39
13	System identification of linear MDOF structures under ambient excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 1999, 28, 61-77.	4.4	34
14	Smart multifunctional cement mortar containing graphite nanoplatelet. <i>Proceedings of SPIE</i> , 2013, , .	0.8	26
15	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.	7.9	25
16	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.	5.2	23
17	Wave boundary element to study Lamb wave propagation in plates. <i>Journal of Sound and Vibration</i> , 2005, 288, 195-213.	3.9	18
18	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.	4.1	18

#	ARTICLE	IF	CITATIONS
19	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, 898-907.	0.7	17
20	Hybrid approach to seismic reliability assessment of engineering structures. <i>Engineering Structures</i> , 2017, 153, 665-673.	5.3	16
21	Plastic Optical Fiber Sensors for Measurement of Large Strain in Geotextile Materials. <i>Advanced Materials Research</i> , 0, 47-50, 1233-1236.	0.3	15
22	Statistical Model of Boulder Size and Fraction. <i>Journal of Geotechnical Engineering</i> , 1986, 112, 79-90.	0.4	14
23	Strain and damage self-sensing cement composites with conductive graphene nanoplatelet. <i>Proceedings of SPIE</i> , 2014, , .	0.8	14
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.	2.6	13
25	Discrete dislocation analysis of the mechanical response of silicon carbide reinforced aluminum nanocomposites. <i>Composites Part B: Engineering</i> , 2011, 42, 92-98.	12.0	12
26	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.	2.7	11
27	Static and dynamic tensile behaviour of PE-fibrous ferrocement. <i>Magazine of Concrete Research</i> , 2011, 63, 61-73.	2.0	10
28	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.	1.2	9
29	Compressive Behavior of Plain and Fiber-Reinforced High-Strength Concrete Subjected to High Strain Rate Loading. <i>Applied Mechanics and Materials</i> , 0, 82, 57-62.	0.2	9
30	Efficient subset simulation with active learning Kriging model for low failure probability prediction. <i>Probabilistic Engineering Mechanics</i> , 2022, 68, 103256.	2.7	9
31	Fish scale-cellular composite system for protection against low-velocity impact. <i>Composite Structures</i> , 2016, 145, 217-225.	5.8	8
32	<title>Finite element modeling of the micropipette aspiration of malaria-infected red blood cells</title>. , 2005, , .		3
33	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.	5.6	3
34	Limit load analysis of a semi-infinite beam on rigid foundation. <i>International Journal of Mechanical Sciences</i> , 1991, 33, 403-412.	6.7	2
35	<title>Plastic optical fibre sensor for structural health monitoring</title>. , 2005, , .		2
36	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, .	1.2	2

#	ARTICLE	IF	CITATIONS
37	Numerical Simulation of Non-Gaussian Wave Elevation and Kinematics Based on Two-Dimensional Fourier Transform. , 2006, , .		2
38	Structural Damage Detection Accounting for Loss of Data in Wireless Network Sensors. Key Engineering Materials, 0, 413-414, 125-132.	0.4	1
39	Sensing inaccessible damage in a structure using frequency response functions. , 2007, , .		0
40	Reliability of Switched Model-Based Controller for Vessel Dynamic Positioning With Switching Under Estimated Motion Frequency. , 2007, , .		0
41	Bayesian Filter for Parameter Identification in Time Domain. , 2022, , 35-72.		0