Kong-Fah Tee

List of Publications by Year
in descending order

128 papers	2,139 citations	257101 24 h-index	288905 40 g-index
130 all docs	130 docs citations	130 times ranked	1580 citing authors

#	Article	IF	Citations
1	Thermal and mechanical properties of bamboo fiber reinforced composites. Materials Today Communications, 2020, 23, 100876.	0.9	128
2	Wave Propagation in Auxetic Tetrachiral Honeycombs. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.0	116
3	Smart tetrachiral and hexachiral honeycomb: Sensing and impact detection. Composites Science and Technology, 2010, 70, 1072-1079.	3.8	103
4	Towards a new model of crack tip stress fields. International Journal of Fracture, 2007, 148, 361-371.	1.1	92
5	Assessment of onshore wind energy potential under different geographical climate conditions in China. Energy, 2018, 152, 498-511.	4.5	84
6	Prediction of maximum pitting corrosion depth in oil and gas pipelines. Engineering Failure Analysis, 2020, 112, 104505.	1.8	74
7	Reliability based life cycle cost optimization for underground pipeline networks. Tunnelling and Underground Space Technology, 2014, 43, 32-40.	3.0	64
8	Optimal sustainable life cycle maintenance strategies for port infrastructures. Journal of Cleaner Production, 2017, 142, 1693-1709.	4.6	64
9	Application of subset simulation in reliability estimation of underground pipelines. Reliability Engineering and System Safety, 2014, 130, 125-131.	5.1	62
10	Aerodynamic treatments for reduction of wind loads on high-rise buildings. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 107-115.	1.7	54
11	A quantitative evaluation of fatigue crack shielding forces using photoelasticity. Engineering Fracture Mechanics, 2008, 75, 4190-4199.	2.0	52
12	Comparative study of onshore and offshore wind characteristics and wind energy potentials: A case study for southeast coastal region of China. Sustainable Energy Technologies and Assessments, 2020, 39, 100711.	1.7	48
13	Maintenance management of offshore structures using Markov process model with random transition probabilities. Structure and Infrastructure Engineering, 2017, 13, 1068-1080.	2.0	46
14	A combination of GFRP sheets and steel cage for seismic strengthening of shear-deficient corner RC beam-column joints. Composite Structures, 2017, 159, 206-219.	3.1	43
15	Substructural first- and second-order model identification for structural damage assessment. Earthquake Engineering and Structural Dynamics, 2005, 34, 1755-1775.	2.5	41
16	Numerical and Experimental Studies of a Substructural Identification Strategy. Structural Health Monitoring, 2009, 8, 397-410.	4.3	39
17	Probabilistic failure analysis of underground flexible pipes. Structural Engineering and Mechanics, 2013, 47, 167-183.	1.0	39
18	Drill Bit Deformations in Rotary Drilling Systems under Large-Amplitude Stick-Slip Vibrations. Applied Sciences (Switzerland), 2020, 10, 6523.	1.3	36

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19	Reliability prediction for corroding natural gas pipelines. Tunnelling and Underground Space Technology, 2017, 65, 91-105.	3.0	35
20	Experimental, analytical and numerical study of mechanical properties and fracture energy for composite sandwich beams. Journal of Sandwich Structures and Materials, 2019, 21, 1167-1189.	2.0	30
21	External strengthening of reinforced concrete beam with opening by bamboo fiber reinforced composites. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	29
22	Prediction of sulphide build-up in filled sewer pipes. Environmental Technology (United Kingdom), 2014, 35, 1721-1728.	1.2	28
23	Quantification and comparison of carbon emissions for flexible underground pipelines. Canadian Journal of Civil Engineering, 2015, 42, 728-736.	0.7	27
24	Risk-Cost Optimization of Buried Pipelines Using Subset Simulation. Journal of Infrastructure Systems, 2016, 22, .	1.0	27
25	Statistical model and structural reliability analysis for onshore gas transmission pipelines. Engineering Failure Analysis, 2017, 82, 1-15.	1.8	26
26	Pozzolanic reactivity and strength activity index of mortar containing palm oil clinker pretreated with hydrochloric acid. Journal of Cleaner Production, 2020, 242, 118565.	4.6	26
27	Structural reliability analysis of a heliostat under wind load for concentrating solar power. Solar Energy, 2019, 181, 43-52.	2.9	24
28	Burst strength analysis of pressurized steel pipelines with corrosion and gouge defects. Engineering Failure Analysis, 2020, 108, 104347.	1.8	24
29	Suitability of performance indicators and benchmarking practices in UK universities. Benchmarking, 2016, 23, 584-600.	2.9	23
30	Impact Damage Detection in Composite Chiral Sandwich Panels. Key Engineering Materials, 0, 518, 160-167.	0.4	22
31	Bayesian analysis of small probability incidents for corroding energy pipelines. Engineering Structures, 2018, 165, 264-277.	2.6	22
32	Reliability analysis of repairable k-out-n system from time response under several times stochastic shocks. Smart Structures and Systems, 2014, 14, 559-567.	1.9	22
33	Stochastic failure analysis of the gusset plates in the Mississippi River Bridge. International Journal of Forensic Engineering, 2012, 1, 153.	0.1	19
34	Analysis of structural dynamic reliability based on the probability density evolution method. Structural Engineering and Mechanics, 2013, 45, 201-209.	1.0	19
35	Structural reliability analysis of multiple limit state functions using multi-input multi-output support vector machine. Advances in Mechanical Engineering, 2016, 8, 168781401667144.	0.8	18
36	Uncertainty effects of soil and structural properties on the buckling of flexible pipes shallowly buried in Winkler foundation. Structural Engineering and Mechanics, 2016, 59, 739-759.	1.0	18

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37	Condensed Model Identification and Recovery for Structural Damage Assessment. Journal of Structural Engineering, 2006, 132, 2018-2026.	1.7	17
38	Strain energy release rate of sandwich composite beams for different densities and geometry parameters. Theoretical and Applied Fracture Mechanics, 2019, 101, 191-199.	2.1	17
39	Simulation of offshore aquaculture system for macro algae (seaweed) oceanic farming. Ships and Offshore Structures, 2017, 12, 553-562.	0.9	16
40	Low Velocity Impact Behaviour of Sandwich Composite Structures with E-Glass/Epoxy Facesheets and PVC Foam. Procedia Structural Integrity, 2019, 18, 577-585.	0.3	16
41	Time-variant structural fuzzy reliability analysis under stochastic loads applied several times. Structural Engineering and Mechanics, 2015, 55, 525-534.	1.0	16
42	Mode shape expansion with consideration of analytical modelling errors and modal measurement uncertainty. Smart Structures and Systems, 2012, 10, 485-499.	1.9	16
43	Investigation of wind effect reduction on square high-rise buildings by corner modification. Advances in Structural Engineering, 2019, 22, 1488-1500.	1.2	15
44	Reliability estimation of buried steel pipes subjected to seismic effect. Transportation Geotechnics, 2019, 20, 100242.	2.0	14
45	Finite Element Model Updating for Structural Health Monitoring. SDHM Structural Durability and Health Monitoring, 2020, 14, 1-17.	0.6	14
46	Superposition model of mode shapes composed of travelling torsional guided waves excited by multiple circular transducer arrays in pipes. Ultrasonics, 2021, 116, 106507.	2.1	13
47	Enhancement of unidirectional excitation of guided torsional T(0,1) mode by linear superposition of multiple rings of transducers. Applied Acoustics, 2020, 168, 107411.	1.7	13
48	Reliability-Based Lifetime Fatigue Damage Assessment of Offshore Composite Wind Turbine Blades. Journal of Aerospace Engineering, 2021, 34, .	0.8	12
49	Fuzzy-based optimised subset simulation for reliability analysis of engineering structures. Structure and Infrastructure Engineering, 2019, 15, 413-425.	2.0	12
50	An iterative hybrid random-interval structural reliability analysis. Earthquake and Structures, 2014, 7, 1061-1070.	1.0	11
51	Fuzzy-Based Robustness Assessment of Buried Pipelines. Journal of Pipeline Systems Engineering and Practice, 2018, 9, 06017007.	0.9	11
52	Reliability-based preventive maintenance strategies of road junction systems. International Journal of Quality and Reliability Management, 2019, 36, 752-781.	1.3	11
53	The influence of water on frequency response of concrete plates armed by nanoparticles utilising analytical approach. International Journal of Hydromechatronics, 2020, 3, 51.	1.0	11
54	Risk-based inspection on highway assets with category 2 defects. International Journal of Safety and Security Engineering, 2016, 6, 372-382.	0.5	11

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55	Application of gamma process and maintenance cost for fatigue damage of wind turbine blade. Energy Procedia, 2019, 158, 3729-3734.	1.8	10
56	Silver Nitrate and Putrescine Enhance in vitro Shoot Organogenesis in Polygonum tinctorium. Biosciences, Biotechnology Research Asia, 2016, 13, 53-58.	0.2	10
57	A new computational method for structural reliability with Big Data. Eksploatacja I Niezawodnosc, 2019, 21, 159-163.	1.1	10
58	Reliability analysis of underground pipelines with correlations between failure modes and random variables. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2014, 228, 362-370.	0.6	9
59	Fuzzy Reliability and Risk-Based Maintenance of Buried Pipelines Using Multiobjective Optimization. Journal of Infrastructure Systems, 2020, 26, 04020008.	1.0	9
60	Sensor Location Analysis in Nonlinear Acoustics Used for Damage Detection in Composite Chiral Sandwich Panels. Advances in Science and Technology, 0, , .	0.2	8
61	Structural finite element model updating using incomplete ambient vibration modal data. Science China Technological Sciences, 2014, 57, 1677-1688.	2.0	8
62	Identifying critical performance indicators and suitable partners using a benchmarking template. International Journal of Productivity and Performance Management, 2015, 64, 434-450.	2.2	8
63	Shear Strengthening and Shear Repair of 2-Span Continuous RC Beams with CFRP Strips. Journal of Composites for Construction, 2017, 21, .	1.7	8
64	Criticality Analysis and Maintenance of Solar Tower Power Plants by Integrating the Artificial Intelligence Approach. Energies, 2021, 14, 5861.	1.6	8
65	Degradation modelling and life expectancy using Markov chain model for carriageway. International Journal of Quality and Reliability Management, 2018, 35, 1268-1288.	1.3	7
66	Buckling Uncertainty Analysis for Steel Pipelines Buried in Elastic Soil Using FOSM and MCS Methods. International Journal of Steel Structures, 2019, 19, 381-397.	0.6	7
67	A Mini Review on Properties of Portland Cement Concrete with Geopolymer Materials as Partial or Entire Replacement. Infrastructures, 2021, 6, 26.	1.4	7
68	Repairable k-out-n system work model analysis from time response. Computers and Concrete, 2013, 12, 775-783.	0.7	7
69	Failure probability analysis of heliostat systems. International Journal of Critical Infrastructures, 2020, 16, 342.	0.1	7
70	Time Optimization of Unmanned Aerial Vehicles Using an Augmented Path. Future Internet, 2021, 13, 308.	2.4	7
71	Lamb Modes Detection Using Cumulative Shannon Entropy with Improved Estimation of Arrival Time. Journal of Nondestructive Evaluation, 2019, 38, 1.	1.1	6
72	Rockâ€"bit interaction effects on high-frequency stick-slip vibration severity in rotary drilling systems. Multidiscipline Modeling in Materials and Structures, 2021, 17, 1007-1023.	0.6	6

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73	Design and Performance Analysis of Low Power High Speed Adder and Multiplier Using MTCMOS in 90nm, 70nm, 25nm and 18nm Regime. Advances in Parallel Computing, 2021, , .	0.3	6
74	Analysis of Composite Floor Cellular Steel Beams in Fire. Journal of Structural Fire Engineering, 2010, 1, 161-175.	0.4	5
75	Structural damage detection using quantile regression. Journal of Civil Structural Health Monitoring, 2013, 3, 19-31.	2.0	5
76	Fuzzy-Based Multi-Objective Design Optimization of Buried Pipelines. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2021, 29, 209-229.	0.9	5
77	Structural reliability analysis using response surface method with improved genetic algorithm. Structural Engineering and Mechanics, 2017, 62, 139-142.	1.0	5
78	Review of design and construction of hurricane protection barriers. International Journal of Forensic Engineering, 2014, 2, 144.	0.1	4
79	Application of receiver operating characteristic curve for pipeline reliability analysis. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2015, 229, 181-192.	0.6	4
80	Time-domain multi-state markov model for engine system reliability analysis. Mechanical Engineering Journal, 2016, 3, 16-00084-16-00084.	0.2	4
81	Reliability Analysis of Buried Pipes with Corrosion and Seismic Impact. , 2017, , .		4
82	Reliability analysis and growth curves modelling of fielded road systems. World Review of Intermodal Transportation Research, 2018, 7, 168.	0.2	4
83	Experimental and numerical study of green concrete. International Journal of Forensic Engineering, 2019, 4, 238.	0.1	4
84	A reliability-based and sustainability-informed maintenance optimization considering risk attitudes for telecommunications equipment. International Journal of Quality and Reliability Management, 2020, 38, 873-891.	1.3	4
85	A Novel Stochastic Approach for Static Damage Identification of Beam Structures Using Homotopy Analysis Algorithm. Sensors, 2021, 21, 2366.	2.1	4
86	Review of geopolymer concrete: a structural integrity evaluation. International Journal of Forensic Engineering, 2021, 5, 59.	0.1	4
87	Reliability based maintenance methodology for sustainable transport asset management. Pollack Periodica, 2018, 13, 99-112.	0.2	4
88	Aromatic Compounds Production by Fungal Solid State Fermentation in Pandanus tectorius Fruits. Biosciences, Biotechnology Research Asia, 2016, 13, 75-78.	0.2	4
89	Evaluation of the Physical and Mechanical Properties of Short Entada mannii-Glass Fiber Hybrid Composites. Fibers, 2022, 10, 30.	1.8	4
90	Vibroacoustics and wave propagation of novel chiral honeycombs. Proceedings of SPIE, 2008, , .	0.8	3

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91	Extraction of real modes and physical matrices from modal testing. Earthquake Engineering and Engineering Vibration, 2011, 10, 219-227.	1.1	3
92	Analysis of structural reliability from time response using fully probabilistic. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 277-281.	0.8	3
93	Combined size and shape optimization of truss structures using subset simulation optimization. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2455-2477.	0.7	3
94	Bayesian Updating and Reliability Analysis for High-pH Stress Corrosion Cracking in Gas Pipelines. Journal of Engineering Mechanics - ASCE, 2020, 146, 04020074.	1.6	3
95	Numerical and experimental investigation of concrete with various dosages of fly ash. AIMS Materials Science, 2021, 8, 587-607.	0.7	3
96	Spiral welded pipe improvement by implementation of Six Sigma. International Journal of Quality and Reliability Management, 2022, 39, 881-901.	1.3	3
97	An Experimental Study of the Effects of Low-Calcium Fly Ash on Type II Concrete. Ceramics, 2021, 4, 600-617.	1.0	3
98	Estimation of Circular Arc Crack Depths and Locations in Rotary Drilling Pipes Subjected to Free Vibrations. Vibration, 2022, 5, 165-182.	0.9	3
99	Crack Tip Shielding from a Plastic â€˜Inclusionâ€™. Key Engineering Materials, 0, 465, 1-8.	0.4	2
100	Effects on Surface Integrity of Ti6Al4V in High Speed Milling. Key Engineering Materials, 2017, 737, 156-161.	0.4	2
101	Competing risks survival analysis of ruptured gas pipelines: A nonparametric predictive approach. International Journal of Pressure Vessels and Piping, 2019, 175, 103919.	1.2	2
102	Strategic cost modelling and optimisation for highway asset maintenance. Journal of Quality in Maintenance Engineering, 2019, 26, 198-212.	1.0	2
103	Innovative design of pneumatic conveying and foreign substance cleaning and dust removal system. Australian Journal of Mechanical Engineering, 2019, 17, 209-218.	1.5	2
104	A New Stochastic Model Updating Method Based on Improved Cross-Model Cross-Mode Technique. Sensors, 2021, 21, 3290.	2.1	2
105	Reliability and Inspection Modelling of Railway Signalling Systems. Modelling, 2021, 2, 344-354.	0.8	2
106	Reliability Analysis of Multi-State Engine Units Utilizing Time-Domain Response Data. Journal of Systems Science and Information, 2016, 4, 354-364.	0.2	2
107	Sensing and actuation of smart chiral honeycombs. Proceedings of SPIE, 2008, , .	0.8	1
108	Sustainable Shear Behaviour of 2-Span Continuous Reinforced Concrete T-Beams with CFRP Strips. MATEC Web of Conferences, 2017, 103, 02014.	0.1	1

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109	Design and analysis of wave energy buoy integrated with seaweed farming. International Journal of Critical Infrastructures, 2018, 14, 336.	0.1	1
110	Combination of line sampling and important sampling for reliability assessment of buried pipelines. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2019, 233, 139-150.	0.6	1
111	Computational Method and Simulation of Reliability for Series, Parallel, and k-Out-of-n Systems with Interval Parameters. Mathematical Problems in Engineering, 2021, 2021, 1-5.	0.6	1
112	Water Quality Test and Site Selection for Suitable Species for Seaweed Farm in East Coast of Malaysia. Biosciences, Biotechnology Research Asia, 2015, 12, 33-39.	0.2	1
113	Assessment of factors affecting construction waste: recycled aggregates and their embodied energy composition. International Journal of Forensic Engineering, 2021, 5, 157.	0.1	1
114	Static and Seismic Responses of Eco-Friendly Buried Concrete Pipes with Various Dosages of Fly Ash. Applied Sciences (Switzerland), 2021, 11, 11700.	1.3	1
115	Charring Rate for Fire Exposed X-Lam. IOP Conference Series: Materials Science and Engineering, 2017, 216, 012061.	0.3	0
116	Static behaviour of partially filled steel box-concrete subject to eccentric loading. International Journal of Structural Engineering, 2020, 10, 271.	0.3	0
117	Analytical Solution of Monomorph and Bimorph Piezoelectric Cantilever Beams. Sensors and Materials, 2021, 33, 2407.	0.3	0
118	Analytical Output of Smart Piezoelectric Cantilever Beam. IOP Conference Series: Earth and Environmental Science, 2021, 812, 012003.	0.2	0
119	Probabilistic reliability of micro-resonators with thermoelastic coupling. Earthquake and Structures, 2017, 12, 213-221.	1.0	0
120	Design and analysis of wave energy buoy integrated with seaweed farming. International Journal of Critical Infrastructures, 2018, 14, 336.	0.1	0
121	Reliability analysis and growth curves modelling of fielded road systems. World Review of Intermodal Transportation Research, 2018, 7, 168.	0.2	0
122	Decommissioning of deep and ultra-deep water oil and gas pipelines: issues and challenges. International Journal of Oil, Gas and Coal Technology, 2019, 22, 470.	0.1	0
123	Optimization of Condensed Stiffness Matrices for Structural Health Monitoring. Advances in Civil and Industrial Engineering Book Series, 2019, , 150-185.	0.2	0
124	Development of new cable-driven minimally invasive surgical robot. International Journal of Automation and Control, 2019, 13, 324.	0.3	0
125	Experimental and numerical study of green concrete. International Journal of Forensic Engineering, 2019, 4, 238.	0.1	0
126	Modeling Deformation of Corroded Buried Steel Pipes and Design of Protective Measure. Journal of Pressure Vessel Technology, Transactions of the ASME, 2020, 142, .	0.4	0

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127	Static behaviour of partially filled steel box-concrete subject to eccentric loading. International Journal of Structural Engineering, 2020, 10, 271.	0.3	0
128	Intrusion detection in forensics based on machine learning techniques: a review. International Journal of Forensic Engineering, 2021, 5, 126.	0.1	0