

Heung-Fai Lam

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.

45
papers

1,405
citations

25
h-index

37
g-index

47
ext. papers

1,622
ext. citations

4.8
avg, IF

5.23
L-index

#	Paper	IF	Citations
45	Study of wake characteristics of a vertical axis wind turbine by two- and three-dimensional computational fluid dynamics simulations. <i>Renewable Energy</i> , 2016 , 90, 386-398	8.1	111
44	Bayesian model updating of a coupled-slab system using field test data utilizing an enhanced Markov chain Monte Carlo simulation algorithm. <i>Engineering Structures</i> , 2015 , 102, 144-155	4.7	95
43	Structural Health Monitoring via Measured Ritz Vectors Utilizing Artificial Neural Networks. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2006 , 21, 232-241	8.4	95
42	On the complexity of artificial neural networks for smart structures monitoring. <i>Engineering Structures</i> , 2006 , 28, 977-984	4.7	78
41	A Bayesian Probabilistic Approach for Crack Characterization in Plate Structures. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2010 , 25, 375-386	8.4	67
40	Analysis and design of the general and outmost-ring stiffened suspen-dome structures. <i>Engineering Structures</i> , 2003 , 25, 1685-1695	4.7	61
39	Dynamic reduction-based structural damage detection of transmission tower utilizing ambient vibration data. <i>Engineering Structures</i> , 2009 , 31, 2009-2019	4.7	58
38	Bayesian operational modal analysis and Markov chain Monte Carlo-based model updating of a factory building. <i>Engineering Structures</i> , 2017 , 132, 314-336	4.7	52
37	Tangential-projection algorithm for manifold representation in unidentifiable model updating problems. <i>Earthquake Engineering and Structural Dynamics</i> , 2002 , 31, 791-812	4	51
36	The Bayesian methodology for the detection of railway ballast damage under a concrete sleeper. <i>Engineering Structures</i> , 2014 , 81, 289-301	4.7	46
35	Turbulence effects on the wake characteristics and aerodynamic performance of a straight-bladed vertical axis wind turbine by wind tunnel tests and large eddy simulations. <i>Energy</i> , 2016 , 109, 557-568	7.9	46
34	Full-scale dynamic testing and modal identification of a coupled floor slab system. <i>Engineering Structures</i> , 2012 , 37, 167-178	4.7	42
33	Development of a practical algorithm for Bayesian model updating of a coupled slab system utilizing field test data. <i>Engineering Structures</i> , 2014 , 79, 182-194	4.7	39
32	Experimental characterization of multiple cracks in a cantilever beam utilizing transient vibration data following a probabilistic approach. <i>Journal of Sound and Vibration</i> , 2007 , 305, 34-49	3.9	36
31	Assessing uncertainty in operational modal analysis incorporating multiple setups using a Bayesian approach. <i>Structural Control and Health Monitoring</i> , 2015 , 22, 395-416	4.5	35
30	A feasibility study on railway ballast damage detection utilizing measured vibration of in situ concrete sleeper. <i>Engineering Structures</i> , 2012 , 45, 284-298	4.7	35
29	Entropy-Based Optimal Sensor Placement for Model Identification of Periodic Structures Endowed with Bolted Joints. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017 , 32, 1007-1024	8.4	33

28	Fast Bayesian approach for modal identification using free vibration data, Part I [Most probable value. <i>Mechanical Systems and Signal Processing</i> , 2016 , 70-71, 209-220	7.8	33
27	Markov chain Monte Carlo-based Bayesian method for structural model updating and damage detection. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2140	4.5	32
26	Investigation into the wake aerodynamics of a five-straight-bladed vertical axis wind turbine by wind tunnel tests. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2016 , 155, 23-35	3.7	32
25	Statistical detection of multiple cracks on thin plates utilizing dynamic response. <i>Engineering Structures</i> , 2010 , 32, 3145-3152	4.7	31
24	Structural protection using MR dampers with clipped robust reliability-based control. <i>Structural and Multidisciplinary Optimization</i> , 2007 , 34, 431-443	3.6	30
23	Bayesian structural damage detection of steel towers using measured modal parameters. <i>Earthquake and Structures</i> , 2015 , 8, 935-956		29
22	Bayesian structural model updating using ambient vibration data collected by multiple setups. <i>Structural Control and Health Monitoring</i> , 2017 , 24, e2023	4.5	27
21	Assessment and optimization of the power performance of twin vertical axis wind turbines via numerical simulations. <i>Renewable Energy</i> , 2020 , 147, 43-54	8.1	25
20	Identification of rail-sleeper-ballast system through time-domain Markov chain Monte Carlo-based Bayesian approach. <i>Engineering Structures</i> , 2017 , 140, 421-436	4.7	24
19	Application of two-dimensional spatial wavelet transform in the detection of an obstructed crack on a thin plate. <i>Structural Control and Health Monitoring</i> , 2012 , 19, 260-277	4.5	22
18	Markov chain Monte Carlo-based Bayesian model updating of a sailboat-shaped building using a parallel technique. <i>Engineering Structures</i> , 2019 , 193, 12-27	4.7	20
17	Operational modal identification and finite element model updating of a coupled building following Bayesian approach. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2089	4.5	19
16	An efficient adaptive sequential Monte Carlo method for Bayesian model updating and damage detection. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2260	4.5	18
15	Power performance assessment of H-rotor vertical axis wind turbines with different aspect ratios in turbulent flows via experiments. <i>Energy</i> , 2019 , 173, 121-132	7.9	17
14	Dynamic Analysis of Finite-Length Circular Cylindrical Shells with a Circumferential Surface Crack. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 1419-1434	2.4	14
13	Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 798-805	2.6	10
12	A Bayesian methodology for detection of railway ballast damage using the modified Ludwik nonlinear model. <i>Engineering Structures</i> , 2021 , 236, 112047	4.7	7
11	Bayesian model updating of a 20-story office building utilizing operational modal analysis results. <i>Advances in Structural Engineering</i> , 2019 , 22, 3385-3394	1.9	6

10	Statistical detection of structural damage based on model reduction. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2009 , 30, 875-888	3.2	6
9	Time-domain Markov chain Monte Carlo based Bayesian damage detection of ballasted tracks using nonlinear ballast stiffness model. <i>Structural Health Monitoring</i> , 2020 , 147592172096695	4.4	6
8	An innovative Bayesian system identification method using autoregressive model. <i>Mechanical Systems and Signal Processing</i> , 2019 , 133, 106289	7.8	5
7	Comparative study of the performances of a bio-inspired flexible-bladed wind turbine and a rigid-bladed wind turbine in centimeter-scale. <i>Energy</i> , 2020 , 213, 118835	7.9	3
6	Development of a virtual testing application for the teaching and learning of structural engineering. <i>IES Journal Part A: Civil and Structural Engineering</i> , 2010 , 3, 119-130		2
5	Numerical investigation of the power and self-start performance of a folding-blade horizontal axis wind turbine with a downwind configuration. <i>International Journal of Green Energy</i> , 1-24	3	2
4	On the selection of the most plausible non-linear axial stress-strain model for railway ballast under different impulse magnitudes. <i>Structural Health Monitoring</i> , 147592172110339	4.4	2
3	A feasibility study on void detection of cement-emulsified asphalt mortar for slab track system utilizing measured vibration data. <i>Engineering Structures</i> , 2021 , 245, 112349	4.7	2
2	An Efficient Markov Chain Monte Carlo Method for Bayesian System Identification of Tower Structures. <i>Lecture Notes in Civil Engineering</i> , 2020 , 975-983	0.3	
1	A data-driven method for real-time compaction quality evaluation of a cement-stabilized base layer. <i>Advances in Structural Engineering</i> , 136943322210946	1.9	