

James Brownjohn

List of Publications by Year in descending order

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193
papers

9,334
citations

38738

50
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91
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all docs

194
docs citations

194
times ranked

4279
citing authors

#	ARTICLE	IF	CITATIONS
1	Bayesian Updating of Structural Models and Reliability using Markov Chain Monte Carlo Simulation. Journal of Engineering Mechanics - ASCE, 2002, 128, 380-391.	2.9	645
2	Structural health monitoring of civil infrastructure. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 589-622.	3.4	633
3	Experimental identification and analytical modelling of human walking forces: Literature review. Journal of Sound and Vibration, 2009, 326, 1-49.	3.9	296
4	Long-term monitoring and data analysis of the Tamar Bridge. Mechanical Systems and Signal Processing, 2013, 35, 16-34.	8.0	293
5	Ambient vibration re-testing and operational modal analysis of the Humber Bridge. Engineering Structures, 2010, 32, 2003-2018.	5.3	262
6	Civil structure condition assessment by FE model updating. Finite Elements in Analysis and Design, 2001, 37, 761-775.	3.2	242
7	Vibration-based monitoring of civil infrastructure: challenges and successes. Journal of Civil Structural Health Monitoring, 2011, 1, 79-95.	3.9	242
8	Assessment of Highway Bridge Upgrading by Dynamic Testing and Finite-Element Model Updating. Journal of Bridge Engineering, 2003, 8, 162-172.	2.9	221
9	Development of fiber Bragg grating sensors for monitoring civil infrastructure. Engineering Structures, 2005, 27, 1828-1834.	5.3	220
10	Dynamic Assessment of Curved Cable-Stayed Bridge by Model Updating. Journal of Structural Engineering, 2000, 126, 252-260.	3.4	208
11	Review of machine-vision based methodologies for displacement measurement in civil structures. Journal of Civil Structural Health Monitoring, 2018, 8, 91-110.	3.9	204
12	Ambient vibration studies for system identification of tall buildings. Earthquake Engineering and Structural Dynamics, 2003, 32, 71-95.	4.4	190
13	ARMA modelled time-series classification for structural health monitoring of civil infrastructure. Mechanical Systems and Signal Processing, 2008, 22, 295-314.	8.0	178
14	Fast Bayesian FFT Method for Ambient Modal Identification with Separated Modes. Journal of Engineering Mechanics - ASCE, 2011, 137, 214-226.	2.9	177
15	A spectral density approach for modelling continuous vertical forces on pedestrian structures due to walking. Canadian Journal of Civil Engineering, 2004, 31, 65-77.	1.3	160
16	Bayesian operational modal analysis: Theory, computation, practice. Computers and Structures, 2013, 126, 3-14.	4.4	157
17	Structural health monitoring of the Tamar suspension bridge. Structural Control and Health Monitoring, 2013, 20, 609-625.	4.0	154
18	Application of time series analysis for bridge monitoring. Smart Materials and Structures, 2006, 15, 129-138.	3.5	144

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19	Fast Bayesian ambient modal identification in the frequency domain, Part I: Posterior most probable value. <i>Mechanical Systems and Signal Processing</i> , 2012, 26, 60-75.	8.0	136
20	A non-contact vision-based system for multipoint displacement monitoring in a cable-stayed footbridge. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2155.	4.0	131
21	Damage identification of structures with uncertain frequency and mode shape data. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1053-1066.	4.4	130
22	Fast Bayesian ambient modal identification in the frequency domain, Part II: Posterior uncertainty. <i>Mechanical Systems and Signal Processing</i> , 2012, 26, 76-90.	8.0	113
23	Measurements of static and dynamic displacement from visual monitoring of the Humber Bridge. <i>Engineering Structures</i> , 1993, 15, 197-208.	5.3	111
24	Temperature Analysis of a Long-Span Suspension Bridge Based on Field Monitoring and Numerical Simulation. <i>Journal of Bridge Engineering</i> , 2016, 21, .	2.9	97
25	Development and field testing of a vision-based displacement system using a low cost wireless action camera. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 343-358.	8.0	95
26	Fuzzy Clustering of Stability Diagrams for Vibration-Based Structural Health Monitoring. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2008, 23, 360-372.	9.8	89
27	Stochastic model of near-periodic vertical loads due to humans walking. <i>Advanced Engineering Informatics</i> , 2011, 25, 259-275.	8.0	88
28	Ambient vibration survey of the fatih sultan mehmet (second Bosphorus) suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1992, 21, 907-924.	4.4	81
29	Field observations on modal properties of two tall buildings under strong wind. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 101, 12-23.	3.9	78
30	Humber bridge full-scale measurement campaigns 1990-1991. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1994, 52, 185-218.	3.9	74
31	Evolution of bridge frequencies and modes of vibration during truck passage. <i>Engineering Structures</i> , 2017, 152, 452-464.	5.3	73
32	Experimental methods for estimating modal mass in footbridges using human-induced dynamic excitation. <i>Engineering Structures</i> , 2007, 29, 2833-2843.	5.3	70
33	DETECTION OF ANOMALOUS STRUCTURAL BEHAVIOUR USING WAVELET ANALYSIS. <i>Mechanical Systems and Signal Processing</i> , 2002, 16, 429-445.	8.0	69
34	Three decades of statistical pattern recognition paradigm for SHM of bridges. <i>Structural Health Monitoring</i> , 2022, 21, 3018-3054.	7.5	66
35	Bridge damage detection using rotation measurements - Experimental validation. <i>Mechanical Systems and Signal Processing</i> , 2020, 135, 106380.	8.0	65
36	Assembling mode shapes by least squares. <i>Mechanical Systems and Signal Processing</i> , 2011, 25, 163-179.	8.0	61

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37	Operational deformations in long-span bridges. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 556-574.	3.7	61
38	Real-time performance monitoring of tuned mass damper system for a 183m reinforced concrete chimney. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2010, 98, 169-179.	3.9	60
39	Development and application of a relative displacement sensor for structural health monitoring of composite bridges. <i>Structural Control and Health Monitoring</i> , 2015, 22, 726-742.	4.0	60
40	Observations on non-linear dynamic characteristics of suspension bridges. <i>Earthquake Engineering and Structural Dynamics</i> , 1994, 23, 1351-1367.	4.4	58
41	Response of high frequency floors: A literature review. <i>Engineering Structures</i> , 2010, 32, 337-352.	5.3	57
42	Methodologies for predicting natural frequency variation of a suspension bridge. <i>Engineering Structures</i> , 2014, 80, 211-221.	5.3	57
43	Energy Dissipation from Vibrating Floor Slabs due to Human-Structure Interaction. <i>Shock and Vibration</i> , 2001, 8, 315-323.	0.6	56
44	Connecting Bayesian and frequentist quantification of parameter uncertainty in system identification. <i>Mechanical Systems and Signal Processing</i> , 2012, 29, 328-342.	8.0	55
45	Uncertainty law in ambient modal identification – Part I: Theory. <i>Mechanical Systems and Signal Processing</i> , 2014, 48, 15-33.	8.0	54
46	Ambient vibration survey of the bosporus suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1989, 18, 263-283.	4.4	53
47	Identification of unusual events in multi-channel bridge monitoring data. <i>Mechanical Systems and Signal Processing</i> , 2004, 18, 409-430.	8.0	53
48	Bayesian operational modal analysis of Jiangyin Yangtze River Bridge. <i>Mechanical Systems and Signal Processing</i> , 2018, 110, 210-230.	8.0	53
49	Accurate Deformation Monitoring on Bridge Structures Using a Cost-Effective Sensing System Combined with a Camera and Accelerometers: Case Study. <i>Journal of Bridge Engineering</i> , 2019, 24, .	2.9	53
50	Reproduction and application of human bouncing and jumping forces from visual marker data. <i>Journal of Sound and Vibration</i> , 2010, 329, 3397-3416.	3.9	52
51	VIBRATION CHARACTERISTICS OF A SUSPENSION FOOTBRIDGE. <i>Journal of Sound and Vibration</i> , 1997, 202, 29-46.	3.9	50
52	Dynamic performance of a curved cable-stayed bridge. <i>Engineering Structures</i> , 1999, 21, 1015-1027.	5.3	50
53	Low cost bridge load test: Calculating bridge displacement from acceleration for load assessment calculations. <i>Engineering Structures</i> , 2017, 143, 358-374.	5.3	50
54	On assessing the posterior mode shape uncertainty in ambient modal identification. <i>Probabilistic Engineering Mechanics</i> , 2011, 26, 427-434.	2.7	48

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55	Effect of Solar Radiation on Suspension Bridge Performance. <i>Journal of Bridge Engineering</i> , 2015, 20, .	2.9	48
56	A framework for experimental determination of localised vertical pedestrian forces on full-scale structures using wireless attitude and heading reference systems. <i>Journal of Sound and Vibration</i> , 2016, 376, 217-243.	3.9	47
57	Long-span bridges: Enhanced data fusion of GPS displacement and deck accelerations. <i>Engineering Structures</i> , 2017, 147, 639-651.	5.3	46
58	Measuring and modelling the thermal performance of the Tamar Suspension Bridge using a wireless sensor network. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 176-193.	3.7	45
59	AMBIENT VIBRATION MEASUREMENTS OF THE HUMBER SUSPENSION BRIDGE AND COM PARISON WITH CALCULATED CHARACTERISTICS. <i>Proceedings of the Institution of Civil Engineers</i> , 1987, 83, 561-600.	0.1	44
60	Assessing uncertainty in operational modal analysis incorporating multiple setups using a Bayesian approach. <i>Structural Control and Health Monitoring</i> , 2015, 22, 395-416.	4.0	43
61	Lessons from monitoring the performance of highway bridges. <i>Structural Control and Health Monitoring</i> , 2005, 12, 227-244.	4.0	42
62	Understanding and managing identification uncertainty of close modes in operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2021, 147, 107018.	8.0	42
63	Correlating dynamic characteristics from field measurements and numerical analysis of a high-rise building. , 2000, 29, 523-543.		41
64	Uncertainty law in ambient modal identification—Part II: Implication and field verification. <i>Mechanical Systems and Signal Processing</i> , 2014, 48, 34-48.	8.0	39
65	An accurate and distraction-free vision-based structural displacement measurement method integrating Siamese network based tracker and correlation-based template matching. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 179, 109506.	5.0	38
66	Structural Identification: Opportunities and Challenges. <i>Journal of Structural Engineering</i> , 2013, 139, 1639-1647.	3.4	35
67	Enhanced sparse component analysis for operational modal identification of real-life bridge structures. <i>Mechanical Systems and Signal Processing</i> , 2019, 116, 585-605.	8.0	35
68	Procedures for vibration serviceability assessment of high-frequency floors. <i>Engineering Structures</i> , 2008, 30, 1548-1559.	5.3	34
69	Mathematical modelling of random narrow band lateral excitation of footbridges due to pedestrians walking. <i>Computers and Structures</i> , 2012, 90-91, 116-130.	4.4	34
70	An expectation-maximization algorithm for Bayesian operational modal analysis with multiple (possibly close) modes. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 490-511.	8.0	34
71	Bridge Structural Condition Assessment Using Systematically Validated Finite-Element Model. <i>Journal of Bridge Engineering</i> , 2004, 9, 418-423.	2.9	33
72	Quantifying and managing uncertainty in operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2018, 102, 139-157.	8.0	33

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73	Dynamic investigation of a suspension footbridge. <i>Engineering Structures</i> , 1994, 16, 395-406.	5.3	32
74	Footbridge system identification using wireless inertial measurement units for force and response measurements. <i>Journal of Sound and Vibration</i> , 2016, 384, 339-355.	3.9	32
75	Bayesian structural identification of a long suspension bridge considering temperature and traffic load effects. <i>Structural Health Monitoring</i> , 2019, 18, 1310-1323.	7.5	32
76	Suspension bridge parameter identification in full scale test. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1992, 41, 165-176.	3.9	30
77	Strategies for aeroelastic parameter identification from bridge deck free vibration data. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2001, 89, 1113-1136.	3.9	30
78	Real-Life Measurement of Tri-Axial Walking Ground Reaction Forces Using Optimal Network of Wearable Inertial Measurement Units. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 1243-1253.	4.9	30
79	Fast Bayesian modal identification of structures using known single-input forced vibration data. <i>Structural Control and Health Monitoring</i> , 2014, 21, 381-402.	4.0	29
80	Seismic analysis of the fatih sultan mehmet (second Bosphorus) suspension bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 1992, 21, 881-906.	4.4	28
81	Response of tall buildings to weak long distance earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2001, 30, 709-729.	4.4	28
82	Application of quasi-distributed fibre Bragg grating sensors in reinforced concrete structures. <i>Measurement Science and Technology</i> , 2002, 13, 583-589.	2.6	28
83	ESTIMATION OF DAMPING IN SUSPENSION BRIDGES.. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 1994, 104, 401-415.	0.8	26
84	Lateral loading and response for a tall building in the non-seismic doldrums. <i>Engineering Structures</i> , 2005, 27, 1801-1812.	5.3	26
85	Experimental modal analysis of British rock lighthouses. <i>Marine Structures</i> , 2018, 62, 1-22.	3.8	26
86	Universal response spectrum procedure for predicting walking-induced floor vibration. <i>Mechanical Systems and Signal Processing</i> , 2016, 70-71, 741-755.	8.0	25
87	Identifying damage on a bridge using rotation-based Bridge Weigh-In-Motion. <i>Journal of Civil Structural Health Monitoring</i> , 2021, 11, 175-188.	3.9	25
88	Identifying Loading and Response Mechanisms from Ten Years of Performance Monitoring of a Tall Building. <i>Journal of Performance of Constructed Facilities</i> , 2008, 22, 24-34.	2.0	24
89	Modern Facilities for Experimental Measurement of Dynamic Loads Induced by Humans: A Literature Review. <i>Shock and Vibration</i> , 2013, 20, 53-67.	0.6	24
90	Dynamics of an aerial cableway system. <i>Engineering Structures</i> , 1998, 20, 826-836.	5.3	23

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91	Full-Scale Validation of Dynamic Wind Load on a Super-Tall Building under Strong Wind. <i>Journal of Structural Engineering</i> , 2012, 138, 1161-1172.	3.4	23
92	Time-dependent spectral analysis of interactions within groups of walking pedestrians and vertical structural motion using wavelets. <i>Mechanical Systems and Signal Processing</i> , 2018, 105, 502-523.	8.0	23
93	Identifying damage in a bridge by analysing rotation response to a moving load. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 1050-1065.	3.7	22
94	Errors in mechanical impedance data obtained with impedance heads. <i>Journal of Sound and Vibration</i> , 1980, 73, 461-468.	3.9	21
95	The Bengkulu, Southern Sumatra, Earthquake of 4 June 2000 (Mw = 7.7): Another Warning to Remote Metropolitan Areas. <i>Seismological Research Letters</i> , 2001, 72, 171-185.	1.9	21
96	Parameter identification of pedestrian's spring-mass-damper model by ground reaction force records through a particle filter approach. <i>Journal of Sound and Vibration</i> , 2017, 411, 409-421.	3.9	21
97	Bayesian operational modal analysis with multiple setups and multiple (possibly close) modes. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107261.	8.0	21
98	Resonance-search tests on a small-scale model of a cable-stayed bridge. <i>Engineering Structures</i> , 1991, 13, 59-66.	5.3	20
99	Using GPS for monitoring tall-building response to wind loading: filtering of abrupt changes and low-frequency noise, variography and spectral analysis of displacements. <i>GPS Solutions</i> , 2007, 11, 85-95.	4.3	20
100	Bayesian operational modal analysis of offshore rock lighthouses: Close modes, alignment, symmetry and uncertainty. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106306.	8.0	20
101	<title>Modeling and simulation of human-floor system under vertical vibration</title>. , 2001, 4327, 513.		19
102	Tracking bridge tilt behaviour using sensor fusion techniques. <i>Journal of Civil Structural Health Monitoring</i> , 2020, 10, 543-555.	3.9	19
103	Frequency modulated empirical mode decomposition method for the identification of instantaneous modal parameters of aeroelastic systems. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 101, 43-52.	3.9	18
104	From phase drift to synchronisation “ pedestrian stepping behaviour on laterally oscillating structures and consequences for dynamic stability. <i>Journal of Sound and Vibration</i> , 2017, 392, 382-399.	3.9	18
105	Bayesian operational modal analysis with asynchronous data, part I: Most probable value. <i>Mechanical Systems and Signal Processing</i> , 2018, 98, 652-666.	8.0	18
106	Measuring human-induced vibrations of civil engineering structures via vision-based motion tracking. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 83, 44-56.	5.0	17
107	Bayesian data driven model for uncertain modal properties identified from operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2020, 136, 106511.	8.0	17
108	Some considerations on the effects of the P-derivatives on bridge deck flutter. <i>Journal of Sound and Vibration</i> , 2005, 283, 957-969.	3.9	16

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109	Correlating measured and simulated dynamic responses of a tall building to long-distance earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2004, 33, 611-632.	4.4	15
110	Suspension bridge response due to extreme vehicle loads. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 821-833.	3.7	15
111	Power Spectral-Density Model for Pedestrian Walking Load. <i>Journal of Structural Engineering</i> , 2019, 145, .	3.4	15
112	Highway bridge live loading assessment and load carrying capacity estimation using a health monitoring system. <i>Structural Engineering and Mechanics</i> , 2004, 18, 609-626.	1.0	15
113	Vibration Excitation and Control of a Pedestrian Walkway by Individuals and Crowds. <i>Shock and Vibration</i> , 2005, 12, 333-347.	0.6	14
114	Boundary condition focused finite element model updating for bridges. <i>Engineering Structures</i> , 2019, 198, 109514.	5.3	14
115	Asymptotic identification uncertainty of close modes in Bayesian operational modal analysis. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106273.	8.0	14
116	Effects of infill walls and floor diaphragms on the dynamic characteristics of a narrow-rectangle building. <i>Earthquake Engineering and Structural Dynamics</i> , 2006, 35, 637-651.	4.4	13
117	Modular Bayesian damage detection for complex civil infrastructure. <i>Journal of Civil Structural Health Monitoring</i> , 2019, 9, 201-215.	3.9	13
118	Bayesian operational modal analysis with buried modes. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 246-263.	8.0	13
119	Application of Box-Jenkins Models for Assessing the Effect of Unusual Events Recorded by Structural Health Monitoring Systems. <i>Structural Health Monitoring</i> , 2002, 1, 149-160.	7.5	12
120	Vibration control of ultra-sensitive facilities. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2006, 159, 295-306.	0.8	12
121	Floor Vibration Serviceability in a Multistory Factory Building. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	2.0	12
122	<title>Effects of human postures on energy dissipation from vibrating floors</title> . , 2001, 4317, 489.		11
123	Vision-based systems for structural deformation measurement: case studies. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018, 171, 917-930.	0.8	11
124	Using inertial measurement units originally developed for biomechanics for modal testing of civil engineering structures. <i>Mechanical Systems and Signal Processing</i> , 2018, 104, 776-798.	8.0	11
125	Analysis of experimental data from wind-induced response of a long span bridge. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 1995, 54-55, 13-24.	3.9	10
126	Effect of vehicular loading on suspension bridge dynamic properties. <i>Structure and Infrastructure Engineering</i> , 2015, 11, 129-144.	3.7	10

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127	Vibration serviceability of Helix Bridge, Singapore. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2016, 169, 611-624.	0.8	10
128	Survivability assessment of fastnet lighthouse. Coastal Engineering, 2019, 150, 18-38.	4.0	10
129	Structural modal testing using a human actuator. Engineering Structures, 2020, 221, 111113.	5.3	10
130	Structural Health Monitoring of short to medium span bridges in the United Kingdom. Structural Monitoring and Maintenance, 2016, 3, 259-276.	1.7	10
131	Field measurement and wind tunnel experimental investigation of a supertall building with closely spaced modes under typhoon Mangkhut. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 226, 105033.	3.9	10
132	Residual stiffness assessment of structurally failed reinforced concrete structure by dynamic testing and finite element model updating. Experimental Mechanics, 2003, 43, 372-378.	2.0	9
133	A FOLDED PENDULUM ISOLATOR FOR EVALUATING ACCELEROMETER PERFORMANCE. Experimental Techniques, 2009, 33, 33-37.	1.5	9
134	Using inertial measurement units to identify medio-lateral ground reaction forces due to walking and swaying. Journal of Sound and Vibration, 2018, 426, 90-110.	3.9	9
135	Asymptotic identification uncertainty of well-separated modes in operational modal analysis with multiple setups. Mechanical Systems and Signal Processing, 2021, 152, 107382.	8.0	9
136	Vibration investigation for telecom structures with smartphone camera: case studies. Journal of Civil Structural Health Monitoring, 2021, 11, 757-766.	3.9	9
137	Structural identification of Humber Bridge for performance prognosis. Smart Structures and Systems, 2015, 15, 665-682.	1.9	9
138	The detection of defects in GRP lattice structures by vibration measurements. NDT and E International, 1991, 24, 123-134.	3.7	8
139	Optimised ambient vibration testing of long span bridges. Procedia Engineering, 2017, 199, 38-47.	1.2	8
140	Wolf Rock lighthouse: past developments and future survivability under wave loading. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190027.	3.4	8
141	An Estimation of Pedestrian Action on Footbridges Using Computer Vision Approaches. Frontiers in Built Environment, 2019, 5, .	2.3	8
142	Wind tunnel section model study of aeroelastic performance for Ting Kau Bridge Deck. Wind and Structures, an International Journal, 2001, 4, 367-382.	0.8	8
143	Time domain formulation of self-excited forces on bridge deck for wind tunnel experiment. Journal of Wind Engineering and Industrial Aerodynamics, 2003, 91, 723-736.	3.9	7
144	Vibration testing of a steel girder bridge using cabled and wireless sensors. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 249-258.	0.4	7

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145	Analysis of load test on composite I-girder bridge. Journal of Civil Structural Health Monitoring, 2017, 7, 163-173.	3.9	7
146	Posterior uncertainty, asymptotic law and Cram�r-Rao bound. Structural Control and Health Monitoring, 2018, 25, e2113.	4.0	7
147	Identifying modal properties of trees with Bayesian inference. Agricultural and Forest Meteorology, 2022, 316, 108804.	4.8	7
148	Full-Scale Dynamic Response of High-Rise Building to Lateral Loading. Journal of Performance of Constructed Facilities, 1998, 12, 33-40.	2.0	6
149	Wireless monitoring of the longitudinal displacement of the Tamar Suspension Bridge deck under changing environmental conditions. , 2011, , .		6
150	Vibration monitoring and condition assessment of the University of Sheffield Arts Tower during retrofit. Journal of Civil Structural Health Monitoring, 2013, 3, 153-168.	3.9	6
151	Forced vibration testing of footbridges using calibrated human shaker and wireless sensors. Procedia Engineering, 2017, 199, 417-422.	1.2	6
152	<title>Monitoring of Singapore-Malaysia second link during construction</title>. , 2001, , .		5
153	<title>Discussion of human resonant frequency</title>. , 2001, , .		5
154	Effect of relative amplitude on bridge deck flutter. Journal of Wind Engineering and Industrial Aerodynamics, 2004, 92, 493-508.	3.9	5
155	Filtering environmental load effects to enhance novelty detection on cable-supported bridge performance. Bridge Maintenance, Safety and Management, 2012, , 745-752.	0.1	5
156	Instrument noise calibration with arbitrary sensor orientations. Mechanical Systems and Signal Processing, 2019, 117, 879-892.	8.0	5
157	Ambient vibration testing and operational modal analysis of monopole telecoms structures. Journal of Civil Structural Health Monitoring, 2021, 11, 1077.	3.9	5
158	Uncertainty quantification in Bayesian operational modal analysis with multiple modes and multiple setups. Mechanical Systems and Signal Processing, 2022, 164, 108205.	8.0	5
159	Multivariate Monitoring with GPS Observations and Auxillary Multisensor Data. GPS Solutions, 2002, 5, 58-69.	4.3	4
160	Efficient dynamic performance assessment of a footbridge. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2005, 158, 185-192.	0.6	4
161	Enhanced Vortex Shedding in a 183 m Industrial Chimney. Advances in Structural Engineering, 2014, 17, 951-960.	2.4	4
162	Experimental and Analytical Study of Seismic Soil-Pile-Structure Interaction in Layered Soil Half-Space. Journal of Earthquake Engineering, 2014, 18, 655-673.	2.5	4

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163	Achievable precision of close modes in operational modal analysis: Wide band theory. Mechanical Systems and Signal Processing, 2021, 147, 107016.	8.0	4
164	A Bayesian inverse dynamic approach for impulsive wave loading reconstruction: Theory, laboratory and field application. Coastal Engineering, 2021, 168, 103920.	4.0	4
165	A precise time-integration linear vehicle-bridge interaction method and dynamic sensitivity analysis. Structures, 2021, 33, 4596-4603.	3.6	4
166	Structural Finite Element Model Updating Using Vibration Tests and Modal Analysis for NPL footbridge " SHM demonstrator. Journal of Physics: Conference Series, 2011, 305, 012105.	0.4	3
167	Performance of a TMD to Mitigate Wind-Induced Interference Effects between Two Industrial Chimneys. Actuators, 2021, 10, 12.	2.3	3
168	Operational deformations in long span bridges. Bridge Maintenance, Safety and Management, 2012, , 32-45.	0.1	3
169	Numerical modelling for evaluating the TMD performance in an industrial chimney. Wind and Structures, an International Journal, 2013, 17, 263-274.	0.8	3
170	OPERATIONAL MODAL ANALYSIS OF BRODIE TOWER USING A BAYESIAN APPROACH. , 2017, , .		3
171	Fast computation of uncertainty lower bounds for state-space model-based operational modal analysis. Mechanical Systems and Signal Processing, 2022, 169, 108759.	8.0	3
172	<title>Bridge health monitoring using wavelet analysis</title>. , 2001, 4317, 546.		2
173	<title>Measurement of contact forces between human and vibrating floors using fiber Bragg grating foot sensors</title>. , 2001, , .		2
174	Identification of unusual events in multichannel bridge monitoring data using wavelet transform and outlier analysis. , 2003, , .		2
175	Direct observations of non-stationary bridge deck aeroelastic vibration in wind tunnel. Journal of Sound and Vibration, 2006, 291, 202-214.	3.9	2
176	Thermal correlation analysis of a long-span suspension bridge static responses. , 2016, , .		2
177	Environmental loading of heritage structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190276.	3.4	2
178	Influence of the Spatial Pressure Distribution of Breaking Wave Loading on the Dynamic Response of Wolf Rock Lighthouse. Journal of Marine Science and Engineering, 2021, 9, 55.	2.6	2
179	Load-Carrying Capacity Evaluation of Damaged Reinforced Concrete Structures by Dynamic Testing and Finite-Element Model Updating. Journal of Testing and Evaluation, 2004, 32, 11791.	0.7	2
180	Measuring configuration of multi-setup ambient vibration test. Mechanical Systems and Signal Processing, 2022, 175, 109153.	8.0	2

#	ARTICLE	IF	CITATIONS
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