

# Jun Li

## 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.

121  
papers

1,997  
citations

27  
h-index

38  
g-index

130  
ext. papers

2,739  
ext. citations

3.9  
avg, IF

5.86  
L-index

#	Paper	IF	Citations
121	Structural damage identification based on autoencoder neural networks and deep learning. <i>Engineering Structures</i> , <b>2018</b> , 172, 13-28	4.7	140
120	Substructure damage identification based on response reconstruction in frequency domain and model updating. <i>Engineering Structures</i> , <b>2012</b> , 41, 270-284	4.7	79
119	Micro-seismic event detection and location in underground mines by using Convolutional Neural Networks (CNN) and deep learning. <i>Tunnelling and Underground Space Technology</i> , <b>2018</b> , 81, 265-276	5.7	57
118	Structural response reconstruction with transmissibility concept in frequency domain. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 952-968	7.8	57
117	Improved damage identification in bridge structures subject to moving loads: Numerical and experimental studies. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 74, 99-111	5.5	56
116	Damage identification of a target substructure with moving load excitation. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 30, 78-90	7.8	52
115	Development and application of a deep learning based sparse autoencoder framework for structural damage identification. <i>Structural Health Monitoring</i> , <b>2019</b> , 18, 103-122	4.4	51
114	Damage detection in bridge structures under moving loads with phase trajectory change of multi-type vibration measurements. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 87, 410-425	7.8	49
113	Development and application of a relative displacement sensor for structural health monitoring of composite bridges. <i>Structural Control and Health Monitoring</i> , <b>2015</b> , 22, 726-742	4.5	48
112	Time-varying system identification using variational mode decomposition. <i>Structural Control and Health Monitoring</i> , <b>2018</b> , 25, e2175	4.5	44
111	Fatigue reliability evaluation of deck-to-rib welded joints in OSD considering stochastic traffic load and welding residual stress. <i>International Journal of Fatigue</i> , <b>2018</b> , 111, 151-160	5	42
110	Lost data recovery for structural health monitoring based on convolutional neural networks. <i>Structural Control and Health Monitoring</i> , <b>2019</b> , 26, e2433	4.5	39
109	Structural damage identification using improved Jaya algorithm based on sparse regularization and Bayesian inference. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 132, 211-231	7.8	39
108	Structural damage identification with power spectral density transmissibility: numerical and experimental studies. <i>Smart Structures and Systems</i> , <b>2015</b> , 15, 15-40		39
107	Substructural Response Reconstruction in Wavelet Domain. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2011</b> , 78,	2.7	38
106	Damage detection of shear connectors under moving loads with relative displacement measurements. <i>Mechanical Systems and Signal Processing</i> , <b>2015</b> , 60-61, 124-150	7.8	37
105	A review of recent research advances on structural health monitoring in Western Australia. <i>Structural Monitoring and Maintenance</i> , <b>2016</b> , 3, 33-49		36

104	Substructure damage identification based on wavelet-domain response reconstruction. <i>Structural Health Monitoring</i> , <b>2014</b> , 13, 389-405	4.4	35
103	DAMAGE DETECTION OF SHEAR CONNECTORS IN BRIDGE STRUCTURES WITH TRANSMISSIBILITY IN FREQUENCY DOMAIN. <i>International Journal of Structural Stability and Dynamics</i> , <b>2014</b> , 14, 1350061	1.9	35
102	Using polynomial chaos expansion for uncertainty and sensitivity analysis of bridge structures. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 119, 293-311	7.8	35
101	Vibration signal denoising for structural health monitoring by residual convolutional neural networks. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 157, 107651	4.6	33
100	Non-probabilistic method to consider uncertainties in frequency response function for vibration-based damage detection using Artificial Neural Network. <i>Journal of Sound and Vibration</i> , <b>2020</b> , 467, 115069	3.9	33
99	Health monitoring of joint conditions in steel truss bridges with relative displacement sensors. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 88, 360-371	4.6	32
98	Updating the reliability of a concrete bridge structure based on condition assessment with uncertainties. <i>Engineering Structures</i> , <b>2010</b> , 32, 286-296	4.7	32
97	An equivalent structural stress-based fatigue evaluation framework for rib-to-deck welded joints in orthotropic steel deck. <i>Engineering Structures</i> , <b>2019</b> , 196, 109304	4.7	31
96	Reliability analysis and design optimization of nonlinear structures. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 198, 106860	6.3	29
95	Operational modal identification of structures based on improved empirical wavelet transform. <i>Structural Control and Health Monitoring</i> , <b>2019</b> , 26, e2323	4.5	28
94	Strain Transfer Analysis of Embedded Fiber Bragg Grating Strain Sensor. <i>Journal of Testing and Evaluation</i> , <b>2016</b> , 44, 20140388	1	27
93	Damage Identification and Optimal Sensor Placement for Structures under Unknown Traffic-Induced Vibrations. <i>Journal of Aerospace Engineering</i> , <b>2017</b> , 30,	1.4	26
92	Time-varying system identification by enhanced Empirical Wavelet Transform based on Synchroextracting Transform. <i>Engineering Structures</i> , <b>2019</b> , 196, 109313	4.7	26
91	Identification of Minor Structural Damage Based on Electromechanical Impedance Sensitivity and Sparse Regularization. <i>Journal of Aerospace Engineering</i> , <b>2018</b> , 31, 04018061	1.4	25
90	Structural damage identification with uncertain modelling error and measurement noise by clustering based tree seeds algorithm. <i>Engineering Structures</i> , <b>2019</b> , 185, 301-314	4.7	24
89	Substructural Damage Detection With Incomplete Information of the Structure. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2012</b> , 79,	2.7	23
88	Piezoelectric impedance based damage detection in truss bridges based on time frequency ARMA model. <i>Smart Structures and Systems</i> , <b>2016</b> , 18, 501-523		22
87	Target-free vision-based technique for vibration measurements of structures subjected to out-of-plane movements. <i>Engineering Structures</i> , <b>2019</b> , 190, 210-222	4.7	19

86	Strain Transfer Analysis of a Clamped Fiber Bragg Grating Sensor. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 188	2.6	19
85	Bridge influence line identification based on adaptive B-spline basis dictionary and sparse regularization. <i>Structural Control and Health Monitoring</i> , <b>2019</b> , 26, e2355	4.5	18
84	Deep residual network framework for structural health monitoring. <i>Structural Health Monitoring</i> , <b>2020</b> , 147592172091837	4.4	18
83	A modified Artificial Bee Colony algorithm for structural damage identification under varying temperature based on a novel objective function. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 88, 122-141	4.5	17
82	Dynamic Assessment of Shear Connectors in Composite Bridges with Ambient Vibration Measurements. <i>Advances in Structural Engineering</i> , <b>2014</b> , 17, 617-637	1.9	17
81	Structural damage identification based on modified Artificial Bee Colony algorithm using modal data. <i>Inverse Problems in Science and Engineering</i> , <b>2018</b> , 26, 422-442	1.3	16
80	Detection of minor damage in structures with guided wave signals and nonlinear oscillator. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 122, 532-544	4.6	16
79	Source identification of microseismic events in underground mines with interferometric imaging and cross wavelet transform. <i>Tunnelling and Underground Space Technology</i> , <b>2018</b> , 71, 318-328	5.7	16
78	Bayesian based nonlinear model updating using instantaneous characteristics of structural dynamic responses. <i>Engineering Structures</i> , <b>2019</b> , 183, 459-474	4.7	16
77	Bridge condition monitoring using fixed moving principal component analysis. <i>Structural Control and Health Monitoring</i> , <b>2020</b> , 27, e2535	4.5	15
76	Structural Damage Detection Using Auto/Cross-Correlation Functions Under Multiple Unknown Excitations. <i>International Journal of Structural Stability and Dynamics</i> , <b>2014</b> , 14, 1440006	1.9	15
75	Bridge condition monitoring under moving loads using two sensor measurements. <i>Structural Health Monitoring</i> , <b>2020</b> , 19, 917-937	4.4	15
74	Influence of Asphalt Pavement Conditions on Fatigue Damage of Orthotropic Steel Decks: Parametric Analysis. <i>Journal of Bridge Engineering</i> , <b>2018</b> , 23, 04018093	2.7	15
73	Nonlinear hysteretic parameter identification using an improved tree-seed algorithm. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 46, 69-83	9.8	14
72	Data driven structural dynamic response reconstruction using segment based generative adversarial networks. <i>Engineering Structures</i> , <b>2021</b> , 234, 111970	4.7	14
71	Impedance resonant frequency sensitivity based structural damage identification with sparse regularization: experimental studies. <i>Smart Materials and Structures</i> , <b>2019</b> , 28, 015003	3.4	14
70	Improved decentralized structural identification with output-only measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 122, 597-610	4.6	12
69	Improved automated operational modal identification of structures based on clustering. <i>Structural Control and Health Monitoring</i> , <b>2019</b> , 26, e2450	4.5	12

68	Substructural interface force identification with limited vibration measurements. <i>Journal of Civil Structural Health Monitoring</i> , <b>2016</b> , 6, 395-410	2.9	12
67	Stochastic dynamic analysis of marine risers considering Gaussian system uncertainties. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 416, 224-243	3.9	11
66	Damage assessment of shear connectors with vibration measurements and power spectral density transmissibility. <i>Structural Engineering and Mechanics</i> , <b>2015</b> , 54, 257-289		11
65	Non-probabilistic method to consider uncertainties in structural damage identification based on Hybrid Jaya and Tree Seeds Algorithm. <i>Engineering Structures</i> , <b>2020</b> , 220, 110925	4.7	11
64	Structural damage detection considering sensor performance degradation and measurement noise effect. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 131, 431-442	4.6	11
63	Damage identification in underground tunnel structures with wavelet based residual force vector. <i>Engineering Structures</i> , <b>2019</b> , 178, 506-520	4.7	11
62	Dynamic response reconstruction for structural health monitoring using densely connected convolutional networks. <i>Structural Health Monitoring</i> , <b>2020</b> , 147592172091688	4.4	10
61	Fragility analyses of offshore wind turbines subjected to aerodynamic and sea wave loadings. <i>Renewable Energy</i> , <b>2020</b> , 160, 1269-1282	8.1	10
60	Probabilistic model updating via variational Bayesian inference and adaptive Gaussian process modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 383, 113915	5.7	10
59	Structural damage identification by sparse deep belief network using uncertain and limited data. <i>Structural Control and Health Monitoring</i> , <b>2020</b> , 27, e2522	4.5	9
58	Multiple Pounding Tuned Mass Damper (MPTMD) control on benchmark tower subjected to earthquake excitations. <i>Earthquake and Structures</i> , <b>2016</b> , 11, 1123-1141		9
57	A decentralized unsupervised structural condition diagnosis approach using deep auto-encoders. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2021</b> , 36, 711-732	8.4	9
56	A Novel Parallel Auto-Encoder Framework for Multi-Scale Data in Civil Structural Health Monitoring. <i>Algorithms</i> , <b>2018</b> , 11, 112	1.8	9
55	Fully automated precise operational modal identification. <i>Engineering Structures</i> , <b>2021</b> , 234, 111988	4.7	8
54	Bayesian model updating of civil structures with likelihood-free inference approach and response reconstruction technique. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 164, 108204	7.8	8
53	Structural response recovery based on improved multi-scale principal component analysis considering sensor performance degradation. <i>Advances in Structural Engineering</i> , <b>2018</b> , 21, 241-255	1.9	7
52	Application of deep autoencoder model for structural condition monitoring. <i>Journal of Systems Engineering and Electronics</i> , <b>2018</b> , 29, 873	1.3	7
51	Stochastic dynamic analysis of marine risers considering fluid-structure interaction and system uncertainties. <i>Engineering Structures</i> , <b>2019</b> , 198, 109507	4.7	6

50	Stress Influence Line Identification of Long Suspension Bridges Installed with Structural Health Monitoring Systems. <i>International Journal of Structural Stability and Dynamics</i> , <b>2016</b> , 16, 1640023	1.9	6
49	Damage quantification of beam structures using deflection influence line changes and sparse regularization. <i>Advances in Structural Engineering</i> , 136943322199248	1.9	6
48	In Situ Data Analysis for Condition Assessment of an Existing Prestressed Concrete Bridge. <i>Journal of Aerospace Engineering</i> , <b>2018</b> , 31, 04018106	1.4	6
47	Computer vision based target-free 3D vibration displacement measurement of structures. <i>Engineering Structures</i> , <b>2021</b> , 246, 113040	4.7	6
46	Damage Detection of Shear Connectors Based on Power Spectral Density Transmissibility. <i>Key Engineering Materials</i> , <b>2013</b> , 569-570, 1241-1248	0.4	5
45	Damage Detection in Initially Nonlinear Structures Based on Variational Mode Decomposition. <i>International Journal of Structural Stability and Dynamics</i> , <b>2020</b> , 20, 2042009	1.9	5
44	Structural damage identification with limited modal measurements and ultra-sparse Bayesian regression. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2729	4.5	5
43	Structural identification and evaluation for SHM applications. <i>Journal of Civil Structural Health Monitoring</i> , <b>2018</b> , 8, 719-720	2.9	5
42	Effect of Adding Methylcellulose on Mechanical and Vibration Properties of Geopolymer Paste and Hybrid Fiber-Reinforced Geopolymer Composite. <i>Journal of Materials in Civil Engineering</i> , <b>2020</b> , 32, 04020166	2.0	4
41	Output-only structural parameter identification with evolutionary algorithms and correlation functions. <i>Smart Materials and Structures</i> , <b>2020</b> , 29, 035018	3.4	4
40	Parallel Decentralized Damage Detection of a Structure with Subsets of Parameters. <i>AIAA Journal</i> , <b>2014</b> , 52, 650-656	2.1	4
39	Micro-seismic monitoring in mines based on cross wavelet transform. <i>Earthquake and Structures</i> , <b>2016</b> , 11, 1143-1164		4
38	Using a single sensor for bridge condition monitoring via moving embedded principal component analysis. <i>Structural Health Monitoring</i> , 147592172098051	4.4	4
37	Defect detection in pipe structures using stochastic resonance of Duffing oscillator and ultrasonic guided waves. <i>International Journal of Pressure Vessels and Piping</i> , <b>2020</b> , 187, 104168	2.4	4
36	Development and application of random forest technique for element level structural damage quantification. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2678	4.5	4
35	Identification of time-varying nonlinear structural physical parameters by integrated WMA and UKF/UKF-UI. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 681-706	5	4
34	Densely connected convolutional networks for vibration based structural damage identification. <i>Engineering Structures</i> , <b>2021</b> , 245, 112871	4.7	4
33	Preface: Recent Advances on Structural Control, Health Monitoring and Applications in Bridge Engineering. <i>International Journal of Structural Stability and Dynamics</i> , <b>2018</b> , 18, 1802001	1.9	3

32	Damage Detection of a Substructure Based on Response Reconstruction in Frequency Domain. <i>Key Engineering Materials</i> , <b>2013</b> , 569-570, 823-830	0.4	3
31	A substructural and wavelet multiresolution approach for identifying time-varying physical parameters by partial measurements. <i>Journal of Sound and Vibration</i> , <b>2022</b> , 523, 116737	3.9	3
30	Enhanced vibration decomposition method based on multisynchrosqueezing transform and analytical mode decomposition. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2730	4.5	3
29	Nonlinear structural damage detection using output-only Volterra series model. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2802	4.5	3
28	Improving identifiability of structural damage using higher order responses and phase space technique. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2808	4.5	3
27	Bridge Condition Assessment Under Moving Loads Using Multi-sensor Measurements and Vibration Phase Technology. <i>Lecture Notes in Mechanical Engineering</i> , <b>2018</b> , 73-84	0.4	2
26	Multi-scale stochastic dynamic response analysis of offshore risers with lognormal uncertainties. <i>Ocean Engineering</i> , <b>2019</b> , 189, 106333	3.9	2
25	High-resolution time-frequency representation for instantaneous frequency identification by adaptive Duffing oscillator. <i>Structural Control and Health Monitoring</i> , <b>2020</b> , 27, e2635	4.5	2
24	Modal Identification of damped vibrating systems by iterative smooth orthogonal decomposition method. <i>Advances in Structural Engineering</i> , <b>2021</b> , 24, 755-770	1.9	2
23	Reliability based design optimization of bridges considering bridge-vehicle interaction by Kriging surrogate model. <i>Engineering Structures</i> , <b>2021</b> , 246, 112989	4.7	2
22	Structural dynamic response reconstruction and virtual sensing using a sequence to sequence modeling with attention mechanism. <i>Automation in Construction</i> , <b>2021</b> , 131, 103895	9.6	2
21	Simultaneous identification of structural damage and nonlinear hysteresis parameters by an evolutionary algorithm-based artificial neural network. <i>International Journal of Non-Linear Mechanics</i> , <b>2022</b> , 142, 103970	2.8	2
20	Data driven structural damage assessment using phase space embedding and Koopman operator under stochastic excitations. <i>Engineering Structures</i> , <b>2022</b> , 255, 113906	4.7	1
19	Structural Damage Detection with Uncertainties Using a Modified Tree Seeds Algorithm. <i>Mechanisms and Machine Science</i> , <b>2020</b> , 751-760	0.3	1
18	Failure mechanism of geopolymer composite lightweight sandwich panel under flexural and edgewise compressive loads. <i>Construction and Building Materials</i> , <b>2021</b> , 270, 121496	6.7	1
17	Silo quake response spectrum of iron ore train load out bin. <i>Advanced Powder Technology</i> , <b>2018</b> , 29, 2775-2784	4.1	1
16	Review of piezoelectric impedance based structural health monitoring: Physics-based and data-driven methods. <i>Advances in Structural Engineering</i> , 136943322110384	1.9	1
15	Structural identification using improved butterfly optimization algorithm with adaptive sampling test and search space reduction method. <i>Structures</i> , <b>2021</b> , 33, 2121-2139	3.4	1



14	Real-Time Identification of Time-Varying Cable Force Using an Improved Adaptive Extended Kalman Filter. <i>Sensors</i> , <b>2022</b> , 22, 4212	3.8	1
13	Damage detection in bridges under moving loads based on subspace projection residuals. <i>Advances in Structural Engineering</i> , 136943322110561	1.9	0
12	Data-driven approach for post-earthquake condition and reliability assessment with approximate Bayesian computation. <i>Engineering Structures</i> , <b>2022</b> , 256, 113940	4.7	0
11	Using Deep Learning Technique for Recovering the Lost Measurement Data. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 229-237	0.3	0
10	Prestress Force Monitoring and Quantification of Precast Segmental Beams through Neutral Axis Location Identification. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2756	2.6	0
9	Phase space reconstruction and Koopman operator based linearization of nonlinear model for damage detection of nonlinear structures. <i>Advances in Structural Engineering</i> , 136943322210827	1.9	0
8	Structural damage detection by integrating robust PCA and classical PCA for handling environmental variations and imperfect measurement data. <i>Advances in Structural Engineering</i> , 136943322210790	1.9	0
7	Structural damage detection via phase space based manifold learning under changing environmental and operational conditions. <i>Engineering Structures</i> , <b>2022</b> , 263, 114420	4.7	0
6	Structural Health Monitoring-Oriented Data Mining, Feature Extraction, and Condition Assessment. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-3	1.1	
5	A response to the discussion of Updating the reliability of a concrete bridge structure based on condition assessment with uncertainties. <i>Engineering Structures</i> , <b>2011</b> , 33, 1857	4.7	
4	An Improved SSI Approach for Structural Modal Identification. <i>Lecture Notes in Civil Engineering</i> , <b>2020</b> , 887-897	0.3	
3	Using Novel Time Frequency Analysis Method for Time-Varying System Identification. <i>Lecture Notes in Civil Engineering</i> , <b>2021</b> , 239-246	0.3	
2	Effect of High Speed Rail Transit and Impact Loads on Ballast Degradation. <i>Lecture Notes in Mechanical Engineering</i> , <b>2015</b> , 521-531	0.4	
1	Preface: Recent Research Advances on Structural Health Monitoring of Civil Engineering Structures. <i>International Journal of Structural Stability and Dynamics</i> , <b>2020</b> , 20, 2002002	1.9	