

Xinqun Zhu

List of Publications by Year in Descending Order

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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.

118 papers	2,605 citations	29 h-index	46 g-index
131 ext. papers	3,152 ext. citations	3.3 avg, IF	5.55 L-index

#	Paper	IF	Citations
118	Simultaneous Identification of Bridge Structural Damage and Moving Loads Using the Explicit Form of Newmark-Method: Numerical and Experimental Studies. <i>Remote Sensing</i> , 2022 , 14, 119	5	0
117	A Novel Slip Sensory System for Interfacial Condition Monitoring of Steel-Concrete Composite Bridges. <i>Remote Sensing</i> , 2021 , 13, 3377	5	2
116	Structural dynamic reliability analysis of super large-scale lattice domes during earthquakes using the stochastic finite element method. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 153, 107076	3.5	0
115	A Hybrid Approach for the Dynamic Instability Analysis of Single-Layer Latticed Domes with Uncertainties. <i>International Journal of Structural Stability and Dynamics</i> , 2021 , 21, 2150082	1.9	1
114	Multifunctional cementitious composites with integrated self-sensing and hydrophobic capacities toward smart structural health monitoring. <i>Cement and Concrete Composites</i> , 2021 , 118, 103962	8.6	20
113	Stochastic uncertainty quantification of seismic performance of complex large-scale structures using response spectrum method. <i>Engineering Structures</i> , 2021 , 235, 112096	4.7	1
112	Exact Dynamic Characteristic Analysis of Steel-Concrete Composite Continuous Beams. <i>Shock and Vibration</i> , 2021 , 2021, 1-13	1.1	1
111	Comprehensive Study of Moving Load Identification on Bridge Structures Using the Explicit Form of Newmark-Method: Numerical and Experimental Studies. <i>Remote Sensing</i> , 2021 , 13, 2291	5	8
110	Damage identification of steel-concrete composite beams based on modal strain energy changes through general regression neural network. <i>Engineering Structures</i> , 2021 , 244, 112824	4.7	9
109	Time-Varying Parameter Identification of Bridges Subject to Moving Vehicles Using Ridge Extraction Based on Empirical Wavelet Transform. <i>International Journal of Structural Stability and Dynamics</i> , 2021 , 21, 2150046	1.9	8
108	Free vibration and damage identification of cracked functionally graded plates. <i>Composite Structures</i> , 2020 , 250, 112517	5.3	5
107	Time-varying characteristics of bridges under the passage of vehicles using synchroextracting transform. <i>Mechanical Systems and Signal Processing</i> , 2020 , 140, 106727	7.8	21
106	Vibrational power flow analysis of cracked functionally graded beams. <i>Thin-Walled Structures</i> , 2020 , 150, 106626	4.7	6
105	Seismic performance analysis of a large-scale single-layer lattice dome with a hybrid three-directional seismic isolation system. <i>Engineering Structures</i> , 2020 , 214, 110627	4.7	8
104	Nonlinear dynamic analysis method for large-scale single-layer lattice domes with uncertain-but-bounded parameters. <i>Engineering Structures</i> , 2020 , 203, 109780	4.7	4
103	A Two-Step Drive-By Bridge Damage Detection Using Dual Kalman Filter. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2042006	1.9	10
102	Nonlinear Connection Stiffness Identification of Heritage Timber Buildings Using a Temperature-Driven Multi-Model Approach. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2042001	1.9	

101	A Steel-Concrete Composite Beam Element for Structural Damage Identification. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2042015	1.9	4
100	. <i>IEEE Sensors Journal</i> , 2019 , 19, 12389-12397	4	3
99	Drive-By Blind Modal Identification with Singular Spectrum Analysis. <i>Journal of Aerospace Engineering</i> , 2019 , 32, 04019050	1.4	9
98	Debonding detection in a carbon fibre reinforced concrete structure using guided waves. <i>Smart Materials and Structures</i> , 2019 , 28, 045020	3.4	11
97	A multi-way data analysis approach for structural health monitoring of a cable-stayed bridge. <i>Structural Health Monitoring</i> , 2019 , 18, 35-48	4.4	19
96	Crack identification of functionally graded beams using continuous wavelet transform. <i>Composite Structures</i> , 2019 , 210, 473-485	5.3	26
95	Indirect bridge modal parameters identification with one stationary and one moving sensors and stochastic subspace identification. <i>Journal of Sound and Vibration</i> , 2019 , 446, 1-21	3.9	37
94	Characterization of carbon fiber reinforced polymer strengthened concrete and gap detection with a piezoelectric-based sensory technique. <i>Structural Health Monitoring</i> , 2019 , 18, 172-179	4.4	11
93	Displacement-dependent nonlinear damping model in steel buildings with bolted joints. <i>Advances in Structural Engineering</i> , 2019 , 22, 1049-1061	1.9	4
92	Parametric study and equation of the maximum SCF for concrete filled steel tubular T-joints under axial tension. <i>Thin-Walled Structures</i> , 2018 , 129, 145-156	4.7	14
91	A layered beam element for modeling de-bonding of steel bars in concrete and its detection using static measurements. <i>Structural Control and Health Monitoring</i> , 2018 , 25, e2142	4.5	1
90	Damage identification of supporting structures with a moving sensory system. <i>Journal of Sound and Vibration</i> , 2018 , 415, 111-127	3.9	21
89	EXPERIMENTAL STRESS CONCENTRATION FACTOR IN CONCRETE-FILLED STEEL TUBULAR T-JOINTS. <i>Journal of Constructional Steel Research</i> , 2018 , 150, 442-451	3.8	9
88	Identification of Railway Ballasted Track Systems from Dynamic Responses of In-Service Trains. <i>Journal of Aerospace Engineering</i> , 2018 , 31, 04018060	1.4	7
87	Nothing-on-Road Axle Detection Strategies in Bridge-Weigh-in-Motion for a Cable-Stayed Bridge: Case Study. <i>Journal of Bridge Engineering</i> , 2018 , 23, 05018006	2.7	7
86	System parameter identification from projection of inverse analysis. <i>Journal of Sound and Vibration</i> , 2017 , 396, 83-107	3.9	4
85	Non-intrusive schemes for speed and axle identification in bridge-weigh-in-motion systems. <i>Measurement Science and Technology</i> , 2017 , 28, 025102	2	23
84	A hybrid approach for parameter optimization of multiple tuned mass dampers in reducing floor vibrations due to occupant walking: Theory and parametric studies. <i>Advances in Structural Engineering</i> , 2017 , 20, 1232-1246	1.9	5

83	Bilinear connection stiffness identification of heritage timber buildings with limited strain measurements. <i>Engineering Structures</i> , 2017 , 151, 665-681	4.7	8
82	Condition assessment of heritage timber buildings in operational environments. <i>Journal of Civil Structural Health Monitoring</i> , 2017 , 7, 505-516	2.9	8
81	Dynamic behaviour of steel-concrete composite beams retrofitted with various bolted shear connectors. <i>Engineering Structures</i> , 2017 , 131, 115-135	4.7	13
80	Connection stiffness identification of historic timber buildings using Temperature-based sensitivity analysis. <i>Engineering Structures</i> , 2017 , 131, 180-191	4.7	15
79	Compressive sensing for efficient health monitoring and effective damage detection of structures. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 414-430	7.8	28
78	Recent developments in inverse problems of vehicle-bridge interaction dynamics. <i>Journal of Civil Structural Health Monitoring</i> , 2016 , 6, 107-128	2.9	49
77	Flexural behaviour of composite steel-concrete beams utilising blind bolt shear connectors. <i>Engineering Structures</i> , 2016 , 114, 181-194	4.7	54
76	Measurement System With Accelerometer Integrated RFID Tag for Infrastructure Health Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 1163-1171	5.2	27
75	Dynamic field monitoring data analysis of an ancient wooden building in seismic and operational environments. <i>Earthquake and Structures</i> , 2016 , 11, 1043-1060		2
74	Fatigue behaviour of concrete-filled steel tubular joints - a review. <i>International Journal of Lifecycle Performance Engineering</i> , 2016 , 2, 22	0.3	2
73	Bolted and welded connectors for the rehabilitation of composite beams. <i>Journal of Constructional Steel Research</i> , 2016 , 125, 61-73	3.8	14
72	Dynamic behaviour of steel-concrete composite beams with different types of shear connectors. Part II: Modelling and comparison. <i>Engineering Structures</i> , 2015 , 103, 308-317	4.7	12
71	Dynamic behaviour of steel-concrete composite beams with different types of shear connectors. Part I: Experimental study. <i>Engineering Structures</i> , 2015 , 103, 298-307	4.7	21
70	Time-dependent behaviour of composite beams with blind bolts under sustained loads. <i>Journal of Constructional Steel Research</i> , 2015 , 112, 196-207	3.8	29
69	Strengthening of existing composite steel-concrete beams utilising bolted shear connectors and welded studs. <i>Journal of Constructional Steel Research</i> , 2015 , 114, 417-430	3.8	20
68	Substructural Condition Assessment Based on Force Identification and Interface Force Sensitivity. <i>International Journal of Structural Stability and Dynamics</i> , 2015 , 15, 1450046	1.9	8
67	Statistical Damage Sensitive Feature for Structural Damage Detection Using AR Model Coefficients. <i>Advances in Structural Engineering</i> , 2015 , 18, 1551-1562	1.9	12
66	Structural Health Monitoring Based on Vehicle-Bridge Interaction: Accomplishments and Challenges. <i>Advances in Structural Engineering</i> , 2015 , 18, 1999-2015	1.9	71

65	Sensitivity Enhancement for Structural Condition Assessment with Noisy Excitation or with Only Output. <i>International Journal of Structural Stability and Dynamics</i> , 2015 , 15, 1450083	1.9	1
64	An experimental study for decentralized damage detection of beam structures using wireless sensor networks. <i>Structural Monitoring and Maintenance</i> , 2015 , 2, 237-252		1
63	Singular spectrum analysis for enhancing the sensitivity in structural damage detection. <i>Journal of Sound and Vibration</i> , 2014 , 333, 392-417	3.9	26
62	Explicit form of an implicit method for inverse force identification. <i>Journal of Sound and Vibration</i> , 2014 , 333, 730-744	3.9	51
61	Design and Experimental Investigations of a Vibration Based Wireless Measurement System for Bridge Cable Tension Monitoring. <i>Advances in Structural Engineering</i> , 2014 , 17, 1657-1668	1.9	8
60	Detection of delamination between steel bars and concrete using embedded piezoelectric actuators/sensors. <i>Journal of Civil Structural Health Monitoring</i> , 2013 , 3, 105-115	2.9	31
59	Compressive Sensing for Structural Damage Detection of Reinforced Concrete Structures. <i>Key Engineering Materials</i> , 2013 , 569-570, 742-750	0.4	1
58	Identification of de-bonding between steel bars and concrete using wavelet techniques: Comparative study. <i>Australian Journal of Structural Engineering</i> , 2013 , 14,	1.4	8
57	Damage detection of reinforced concrete structures based on the Wiener Filter. <i>Australian Journal of Structural Engineering</i> , 2013 , 14,	1.4	1
56	An Experimental Study on Damage Detection of Concrete Structures Using Decentralized Algorithms. <i>Advances in Structural Engineering</i> , 2013 , 16, 33-50	1.9	3
55	Statistical damage classification method based on wavelet packet analysis. <i>Structural Engineering and Mechanics</i> , 2013 , 46, 459-486		9
54	Spectral Element Modelling of Wave Propagation with Boundary and Structural Discontinuity Reflections. <i>Advances in Structural Engineering</i> , 2012 , 15, 855-870	1.9	14
53	Development of an integrated structural health monitoring system for bridge structures in operational conditions. <i>Frontiers of Structural and Civil Engineering</i> , 2012 , 6, 321	2.5	4
52	Some special phenomena and preliminary interpretations about measured strain signals from high-speed impact tests. <i>International Journal of Structural Engineering</i> , 2012 , 3, 48	0.9	0
51	Dynamic Assessment of Shear Connection Conditions in Slab-Girder Bridges by Kullback-Leibler Distance. <i>Advances in Structural Engineering</i> , 2012 , 15, 771-780	1.9	7
50	Structural damage detection using the Wiener filter 2012 , 915-920		2
49	A Bonding Damage Detection Method with Force-Based Beam Element. <i>Procedia Engineering</i> , 2011 , 14, 1174-1182		1
48	An experimental study on distributed damage detection algorithms for structural health monitoring. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012068	0.3	1

47	Spectral Element Model Updating for Damage Identification Using Clonal Selection Algorithm. <i>Advances in Structural Engineering</i> , 2011 , 14, 837-856	1.9	16
46	Damage detection of circular cylindrical shells by Ritz method. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012117	0.3	2
45	Experimental study on Statistical Damage Detection of RC Structures based on Wavelet Packet Analysis. <i>Journal of Physics: Conference Series</i> , 2011 , 305, 012107	0.3	2
44	Aerodynamic flutter and limit cycle analysis for a 2-D wing with pitching freeplay in the supersonic flow 2010 ,		2
43	DAMAGE DETECTION OF RC SLABS USING NONLINEAR VIBRATION FEATURES. <i>International Journal of Structural Stability and Dynamics</i> , 2009 , 09, 687-709	1.9	16
42	Response analysis of piezoelectric shells in plane strain under random excitations. <i>Acta Mechanica Solida Sinica</i> , 2009 , 22, 152-160	2	7
41	Evaluation of dynamic vehicle axle loads on bridges with different surface conditions. <i>Journal of Sound and Vibration</i> , 2009 , 323, 826-848	3.9	40
40	Guided wave propagation and spectral element method for debonding damage assessment in RC structures. <i>Journal of Sound and Vibration</i> , 2009 , 324, 751-772	3.9	79
39	Time-varying system identification using a newly improved HHT algorithm. <i>Computers and Structures</i> , 2009 , 87, 1611-1623	4.5	65
38	Damage assessment of reinforced concrete beams including the load environment. <i>Structural Engineering and Mechanics</i> , 2009 , 33, 765-779		12
37	Condition Assessment of Shear Connectors in Slab-Girder Bridges via Vibration Measurements. <i>Journal of Bridge Engineering</i> , 2008 , 13, 43-54	2.7	36
36	DYNAMIC ASSESSMENT OF UNDERWATER PIPELINE SYSTEMS USING STATISTICAL MODEL UPDATING. <i>International Journal of Structural Stability and Dynamics</i> , 2008 , 08, 271-297	1.9	19
35	A concrete-steel interface element for damage detection of reinforced concrete structures. <i>Engineering Structures</i> , 2007 , 29, 3515-3524	4.7	12
34	Moving load identification on a simply supported orthotropic plate. <i>International Journal of Mechanical Sciences</i> , 2007 , 49, 1262-1275	5.5	38
33	Nonlinear Characteristics of Damaged Reinforced Concrete Beam from Hilbert-Huang Transform. <i>Journal of Structural Engineering</i> , 2007 , 133, 1186-1191	3	13
32	Characterization of the Core Properties of a Shock Absorbing Composite. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2007 , 129, 497-504	1.8	1
31	Damage Detection in Simply Supported Concrete Bridge Structure Under Moving Vehicular Loads. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2007 , 129, 58-65	1.6	59
30	Dynamic assessment of undersea pipeline bedding condition 2007 ,		1

29	Vehicle Condition Surveillance on Continuous Bridges Based on Response Sensitivity. <i>Journal of Engineering Mechanics - ASCE</i> , 2006 , 132, 78-86	2.4	18
28	Innovative Bridge Condition Assessment from Dynamic Response of a Passing Vehicle. <i>Journal of Engineering Mechanics - ASCE</i> , 2006 , 132, 1372-1379	2.4	83
27	A State Space Formulation for Moving Loads Identification. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2006 , 128, 509-520	1.6	15
26	Moving load identification on multi-span continuous bridges with elastic bearings. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 1759-1782	7.8	50
25	Wavelet-based crack identification of bridge beam from operational deflection time history. <i>International Journal of Solids and Structures</i> , 2006 , 43, 2299-2317	3.1	166
24	Wind characteristics of Typhoon Dujuan as measured at a 50m guyed mast. <i>Wind and Structures, an International Journal</i> , 2006 , 9, 387-396		15
23	Response prediction of a 50 m guyed mast under typhoon conditions. <i>Wind and Structures, an International Journal</i> , 2006 , 9, 397-412		3
22	VIBRATION OF A BEAM WITH A BREATHING CRACK SUBJECT TO MOVING MASS 2006 , 1963-1968		
21	Bridge dynamic responses due to road surface roughness and braking of vehicle. <i>Journal of Sound and Vibration</i> , 2005 , 282, 805-830	3.9	98
20	Structural damage detection from wavelet packet sensitivity. <i>Engineering Structures</i> , 2005 , 27, 1339-1348	4.7	89
19	Time-varying wind load identification from structural responses. <i>Engineering Structures</i> , 2005 , 27, 1586-1598	4.7	66
18	Nonlinear Characteristics of Damaged Concrete Structures under Vehicular Load. <i>Journal of Structural Engineering</i> , 2005 , 131, 1277-1285	3	13
17	Vehicle axle loads identification using finite element method. <i>Engineering Structures</i> , 2004 , 26, 1143-1153	4.7	79
16	Dynamic behavior of damaged concrete bridge structures under moving vehicular loads. <i>Engineering Structures</i> , 2004 , 26, 1279-1293	4.7	85
15	Time Domain Identification of Moving Loads on Bridge Deck. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2003 , 125, 187-198	1.6	15
14	IDENTIFICATION OF MOVING INTERACTION FORCES WITH INCOMPLETE VELOCITY INFORMATION. <i>Mechanical Systems and Signal Processing</i> , 2003 , 17, 1349-1366	7.8	14
13	Dynamic axle and wheel loads identification: laboratory studies. <i>Journal of Sound and Vibration</i> , 2003 , 268, 855-879	3.9	11
12	Dynamic Behavior of Orthotropic Rectangular Plates under Moving Loads. <i>Journal of Engineering Mechanics - ASCE</i> , 2003 , 129, 79-87	2.4	32

11	DYNAMIC LOAD ON CONTINUOUS MULTI-LANE BRIDGE DECK FROM MOVING VEHICLES. <i>Journal of Sound and Vibration</i> , 2002 , 251, 697-716	3.9	63
10	PRACTICAL ASPECTS IN MOVING LOAD IDENTIFICATION. <i>Journal of Sound and Vibration</i> , 2002 , 258, 123-146	3.9	30
9	Moving Loads Identification Through Regularization. <i>Journal of Engineering Mechanics - ASCE</i> , 2002 , 128, 989-1000	2.4	42
8	ORTHOGONAL FUNCTION IN MOVING LOADS IDENTIFICATION ON A MULTI-SPAN BRIDGE. <i>Journal of Sound and Vibration</i> , 2001 , 245, 329-345	3.9	56
7	Identification of Moving Loads on an Orthotropic Plate. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2001 , 123, 238-244	1.6	18
6	Regularization in Moving Force Identification. <i>Journal of Engineering Mechanics - ASCE</i> , 2001 , 127, 136-148	4.4	57
5	STUDY ON DIFFERENT BEAM MODELS IN MOVING FORCE IDENTIFICATION. <i>Journal of Sound and Vibration</i> , 2000 , 234, 661-679	3.9	43
4	IDENTIFICATION OF VEHICLE AXLE LOADS FROM BRIDGE DYNAMIC RESPONSES. <i>Journal of Sound and Vibration</i> , 2000 , 236, 705-724	3.9	44
3	MOVING FORCES IDENTIFICATION ON A MULTI-SPAN CONTINUOUS BRIDGE. <i>Journal of Sound and Vibration</i> , 1999 , 228, 377-396	3.9	54
2	Damaged cable identification in cable-stayed bridge from bridge deck strain measurements using support vector machine. <i>Advances in Structural Engineering</i> , 136943322110499	1.9	4
1	Bridge modal identification based on successive variational mode decomposition using a moving test vehicle. <i>Advances in Structural Engineering</i> , 136943322210926	1.9	1