Hui Li

List of Publications by Year in descending order

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520 papers	20,248 citations	12303 69 h-index	18606 119 g-index
521 all docs	521 docs citations	521 times ranked	12387 citing authors

#	Article	IF	Citations
1	Microstructure of cement mortar with nano-particles. Composites Part B: Engineering, 2004, 35, 185-189.	5.9	916
2	Abrasion resistance of concrete containing nano-particles for pavement. Wear, 2006, 260, 1262-1266.	1.5	445
3	Pore structure and chloride permeability of concrete containing nano-particles for pavement. Construction and Building Materials, 2011, 25, 608-616.	3.2	437
4	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
5	3D Printing of Graphene Aerogels. Small, 2016, 12, 1702-1708.	5.2	427
6	Structural Health Monitoring in mainland China: Review and Future Trends. Structural Health Monitoring, 2010, 9, 219-231.	4.3	421
7	A study on mechanical and pressure-sensitive properties of cement mortar with nanophase materials. Cement and Concrete Research, 2004, 34, 435-438.	4.6	412
8	NSFnets (Navier-Stokes flow nets): Physics-informed neural networks for the incompressible Navier-Stokes equations. Journal of Computational Physics, 2021, 426, 109951.	1.9	386
9	Computer vision and deep learningâ€“based data anomaly detection method for structural health monitoring. Structural Health Monitoring, 2019, 18, 401-421.	4.3	320
10	Flexural fatigue performance of concrete containing nano-particles for pavement. International Journal of Fatigue, 2007, 29, 1292-1301.	2.8	296
11	Self-Sensing, Ultralight, and Conductive 3D Graphene/Iron Oxide Aerogel Elastomer Deformable in a Magnetic Field. ACS Nano, 2015, 9, 3969-3977.	7.3	266
12	The State of the Art of Data Science and Engineering in Structural Health Monitoring. Engineering, 2019, 5, 234-242.	3.2	263
13	Naturally Dried Graphene Aerogels with Superelasticity and Tunable Poisson's Ratio. Advanced Materials, 2016, 28, 9223-9230.	11.1	254
14	Effect of compressive strain on electrical resistivity of carbon black-filled cement-based composites. Cement and Concrete Composites, 2006, 28, 824-828.	4.6	233
15	Convolutional neural network-based data anomaly detection method using multiple information for structural health monitoring. Structural Control and Health Monitoring, 2019, 26, e2296.	1.9	229
16	Prediction model of velocity field around circular cylinder over various Reynolds numbers by fusion convolutional neural networks based on pressure on the cylinder. Physics of Fluids, 2018, 30, .	1.6	202
17	Surface fatigue crack identification in steel box girder of bridges by a deep fusion convolutional neural network based on consumer-grade camera images. Structural Health Monitoring, 2019, 18, 653-674.	4.3	184
18	Mechanically robust honeycomb graphene aerogel multifunctional polymer composites. Carbon, 2015, 93, 659-670.	5.4	182

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19	Hyperbolically Patterned 3D Graphene Metamaterial with Negative Poisson's Ratio and Superelasticity. Advanced Materials, 2016, 28, 2229-2237.	11.1	178
20	Suppression of vortex-induced vibration of a circular cylinder using suction-based flow control. Journal of Fluids and Structures, 2013, 42, 25-39.	1.5	174
21	Single-shot BOTDA based on an optical chirp chain probe wave for distributed ultrafast measurement. Light: Science and Applications, 2018, 7, 32.	7.7	158
22	Durability study of pultruded CFRP plates immersed in water and seawater under sustained bending: Water uptake and effects on the mechanical properties. Composites Part B: Engineering, 2015, 70, 138-148.	5.9	157
23	Investigation of vortex-induced vibration of a suspension bridge with two separated steel box girders based on field measurements. Engineering Structures, 2011, 33, 1894-1907.	2.6	154
24	The state of the art in structural health monitoring of cable-stayed bridges. Journal of Civil Structural Health Monitoring, 2016, 6, 43-67.	2.0	153
25	Field monitoring and validation of vortex-induced vibrations of a long-span suspension bridge. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 124, 54-67.	1.7	128
26	Automatic seismic damage identification of reinforced concrete columns from images by a region-based deep convolutional neural network. Structural Control and Health Monitoring, 2019, 26, e2313.	1.9	128
27	SMC structural health monitoring benchmark problem using monitored data from an actual cable-stayed bridge. Structural Control and Health Monitoring, 2014, 21, 156-172.	1.9	127
28	The influence of surfactants on the processing of multiâ€walled carbon nanotubes in reinforced cement matrix composites. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2783-2790.	0.8	124
29	Machine learning paradigm for structural health monitoring. Structural Health Monitoring, 2021, 20, 1353-1372.	4.3	124
30	Hypocrystalline ceramic aerogels for thermal insulation at extreme conditions. Nature, 2022, 606, 909-916.	13.7	123
31	Portland Cement Paste Modified by TiO₂ Nanoparticles: A Microstructure Perspective. Industrial & Engineering Chemistry Research, 2013, 52, 11575-11582.	1.8	121
32	Compressive samplingâ€“based data loss recovery for wireless sensor networks used in civil structural health monitoring. Structural Health Monitoring, 2013, 12, 78-95.	4.3	120
33	Experimental investigation on the cyclic performance of reinforced concrete piers with chloride-induced corrosion in marine environment. Engineering Structures, 2015, 105, 1-11.	2.6	120
34	Structural Health Monitoring System for the Shandong Binzhou Yellow River Highway Bridge. Computer-Aided Civil and Infrastructure Engineering, 2006, 21, 306-317.	6.3	114
35	Thermal aging of an anhydride-cured epoxy resin. Polymer Degradation and Stability, 2015, 118, 111-119.	2.7	113
36	Flow around a circular cylinder with slit. Experimental Thermal and Fluid Science, 2017, 82, 287-301.	1.5	110

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37	Interfacial microstructure and bond strength of nano-SiO2-coated steel fibers in cement matrix. Cement and Concrete Composites, 2019, 103, 1-10.	4.6	104
38	Robust Bayesian Compressive Sensing for Signals in Structural Health Monitoring. Computer-Aided Civil and Infrastructure Engineering, 2014, 29, 160-179.	6.3	103
39	Data-driven modeling of vortex-induced vibration of a long-span suspension bridge using decision tree learning and support vector regression. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 196-211.	1.7	103
40	Vibration Control of Stay Cables of the Shandong Binzhou Yellow River Highway Bridge Using Magnetorheological Fluid Dampers. Journal of Bridge Engineering, 2007, 12, 401-409.	1.4	100
41	State-of-the-art review on Bayesian inference in structural system identification and damage assessment. Advances in Structural Engineering, 2019, 22, 1329-1351.	1.2	100
42	An experimental study on a suction flow control method to reduce the unsteadiness of the wind loads acting on a circular cylinder. Experiments in Fluids, 2014, 55, 1.	1.1	98
43	Condition assessment of cables by pattern recognition of vehicle-induced cable tension ratio. Engineering Structures, 2018, 155, 1-15.	2.6	98
44	Negative stiffness characteristics of active and semi-active control systems for stay cables. Structural Control and Health Monitoring, 2008, 15, 120-142.	1.9	94
45	An experimental investigation on vortex induced vibration of a flexible inclined cable under a shear flow. Journal of Fluids and Structures, 2015, 54, 297-311.	1.5	94
46	Slope-assisted BOTDA based on vector SBS and frequency-agile technique for wide-strain-range dynamic measurements. Optics Express, 2017, 25, 1889.	1.7	94
47	Long-term condition assessment of suspenders under traffic loads based on structural monitoring system: Application to the Tsing Ma Bridge. Structural Control and Health Monitoring, 2012, 19, 82-101.	1.9	93
48	Identification framework for cracks on a steel structure surface by a restricted Boltzmann machines algorithm based on consumer-grade camera images. Structural Control and Health Monitoring, 2018, 25, e2075.	1.9	92
49	Bayesian system identification based on hierarchical sparse Bayesian learning and Gibbs sampling with application to structural damage assessment. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 382-411.	3.4	91
50	Experimental and Numerical Study of the Fatigue Properties of Corroded Parallel Wire Cables. Journal of Bridge Engineering, 2012, 17, 211-220.	1.4	90
51	Electrical property of cement-based composites filled with carbon black under long-term wet and loading condition. Composites Science and Technology, 2008, 68, 2114-2119.	3.8	89
52	Passive jet control of flow around a circular cylinder. Experiments in Fluids, 2015, 56, 1.	1.1	89
53	Flyweight, Superelastic, Electrically Conductive, and Flameâ€Retardant 3D Multiâ€Nanolayer Graphene/Ceramic Metamaterial. Advanced Materials, 2017, 29, 1605506.	11.1	89
54	Sensor technology innovation for the advancement of structural health monitoring: a strategic program of US-China research for the next decade. Smart Structures and Systems, 2007, 3, 221-244.	1.9	88

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55	Experimental and analytical study on pounding reduction of baseâ€isolated highway bridges using MR dampers. Earthquake Engineering and Structural Dynamics, 2009, 38, 1307-1333.	2.5	87
56	Applications of optical fibre Bragg gratings sensing technology-based smart stay cables. Optics and Lasers in Engineering, 2009, 47, 1077-1084.	2.0	87
57	Effects of elevated temperatures on the mechanical properties of basalt fibers and BFRP plates. Construction and Building Materials, 2016, 127, 1029-1036.	3.2	86
58	Investigation and control of vortex-induced vibration of twin box girders. Journal of Fluids and Structures, 2013, 39, 205-221.	1.5	85
59	High-Spatial-Resolution Fast BOTDA for Dynamic Strain Measurement Based on Differential Double-Pulse and Second-Order Sideband of Modulation. IEEE Photonics Journal, 2013, 5, 2600407-2600407.	1.0	82
60	Hydrodynamic Experiment of the Wave Force Acting on the Superstructures of Coastal Bridges. Journal of Bridge Engineering, 2015, 20, .	1.4	82
61	Effects of exposure to elevated temperatures and subsequent immersion in water or alkaline solution on the mechanical properties of pultruded BFRP plates. Composites Part B: Engineering, 2015, 77, 421-430.	5.9	82
62	Identification of time-varying cable tension forces based on adaptive sparse time-frequency analysis of cable vibrations. Structural Control and Health Monitoring, 2017, 24, e1889.	1.9	80
63	An interpretable framework of data-driven turbulence modeling using deep neural networks. Physics of Fluids, 2021, 33, .	1.6	80
64	Distributed measurement of dynamic strain based on multi-slope assisted fast BOTDA. Optics Express, 2016, 24, 9781.	1.7	78
65	Self-deicing road system with a CNFP high-efficiency thermal source and MWCNT/cement-based high-thermal conductive composites. Cold Regions Science and Technology, 2013, 86, 22-35.	1.6	74
66	Effects of nano-SiO2 on the permeability-related properties of cement-based composites with different water/cement ratios. Journal of Materials Science, 2018, 53, 4974-4986.	1.7	74
67	A numerical and experimental hybrid approach for the investigation of aerodynamic forces on stay cables suffering from rain-wind induced vibration. Journal of Fluids and Structures, 2010, 26, 1195-1215.	1.5	73
68	Elastic ceramic aerogels for thermal superinsulation under extreme conditions. Materials Today, 2021, 42, 162-177.	8.3	73
69	Fractal Dimension-Based Damage Detection Method for Beams with a Uniform Cross-Section. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 190-206.	6.3	72
70	Vibration mitigation of a stay cable with one shape memory alloy damper. Structural Control and Health Monitoring, 2004, 11, 21-36.	1.9	71
71	Modeling and control performance of a negative stiffness damper for suppressing stay cable vibrations. Structural Control and Health Monitoring, 2016, 23, 764-782.	1.9	70
72	Bayesian compressive sensing for approximately sparse signals and application to structural health monitoring signals for data loss recovery. Probabilistic Engineering Mechanics, 2016, 46, 62-79.	1.3	70

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73	Chloride diffusion in concrete containing nano-TiO2 under coupled effect of scouring. Composites Part B: Engineering, 2014, 56, 698-704.	5.9	68
74	Real-Time Output-Only Identification of Time-Varying Cable Tension from Accelerations via Complexity Pursuit. Journal of Structural Engineering, 2016, 142, .	1.7	68
75	Hierarchical sparse Bayesian learning for structural damage detection: Theory, computation and application. Structural Safety, 2017, 64, 37-53.	2.8	68
76	Modeling of piezoresistivity of carbon black filled cement-based composites under multi-axial strain. Sensors and Actuators A: Physical, 2010, 160, 87-93.	2.0	67
77	PZT/PVDF composites doped with carbon nanotubes. Sensors and Actuators A: Physical, 2013, 194, 228-231.	2.0	67
78	The reinforcement efficiency of carbon nanotubes/shape memory polymer nanocomposites. Composites Part B: Engineering, 2013, 44, 508-516.	5.9	67
79	Embedding Compressive Sensing-Based Data Loss Recovery Algorithm Into Wireless Smart Sensors for Structural Health Monitoring. IEEE Sensors Journal, 2015, 15, 797-808.	2.4	67
80	Effects of surface treatment of carbon fiber: Tensile property, surface characteristics, and bonding to epoxy. Polymer Composites, 2016, 37, 2921-2932.	2.3	67
81	Flyweight 3D Graphene Scaffolds with Microinterface Barrier-Derived Tunable Thermal Insulation and Flame Retardancy. ACS Applied Materials & Interfaces, 2017, 9, 14232-14241.	4.0	67
82	Wind turbine blade health monitoring with piezoceramic-based wireless sensor network. International Journal of Smart and Nano Materials, 2013, 4, 150-166.	2.0	66
83	Artificial neural network mixed model for large eddy simulation of compressible isotropic turbulence. Physics of Fluids, 2019, 31, .	1.6	66
84	An active learning method combining deep neural network and weighted sampling for structural reliability analysis. Mechanical Systems and Signal Processing, 2020, 140, 106684.	4.4	66
85	Experimental and theoretical study on two types of shape memory alloy devices. Earthquake Engineering and Structural Dynamics, 2008, 37, 407-426.	2.5	65
86	A feasibility study of self-heating concrete utilizing carbon nanofiber heating elements. Smart Materials and Structures, 2009, 18, 127001.	1.8	65
87	An accurate and robust monitoring method of fullâ€bridge traffic load distribution based on YOLOâ€v3 machine vision. Structural Control and Health Monitoring, 2020, 27, e2636.	1.9	65
88	Identification of spatio-temporal distribution of vehicle loads on long-span bridges using computer vision technology. Structural Control and Health Monitoring, 2016, 23, 517-534.	1.9	64
89	Compressive sensing-based lost data recovery of fast-moving wireless sensing for structural health monitoring. Structural Control and Health Monitoring, 2015, 22, 433-448.	1.9	61
90	Structural damage identification based on integration of information fusion and shannon entropy. Mechanical Systems and Signal Processing, 2008, 22, 1427-1440.	4.4	60

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91	Numerical study on the suppression of the vortex-induced vibration of an elastically mounted cylinder by a traveling wave wall. Journal of Fluids and Structures, 2014, 44, 145-165.	1.5	60
92	Optimal policy for structure maintenance: A deep reinforcement learning framework. Structural Safety, 2020, 83, 101906.	2.8	60
93	Behavior of a simple concrete beam driven by shape memory alloy wires. Smart Materials and Structures, 2006, 15, 1039-1046.	1.8	58
94	Fundamental understanding of wave generation and reception using d36 type piezoelectric transducers. Ultrasonics, 2015, 57, 135-143.	2.1	58
95	Strain sensing properties of cement-based sensors embedded at various stress zones in a bending concrete beam. Sensors and Actuators A: Physical, 2011, 167, 581-587.	2.0	57
96	Guided wave generation, sensing and damage detection using in-plane shear piezoelectric wafers. Smart Materials and Structures, 2014, 23, 015014.	1.8	57
97	An experimental study on the unsteady vortices and turbulent flow structures around twin-box-girder bridge deck models with different gap ratios. Journal of Wind Engineering and Industrial Aerodynamics, 2014, 132, 27-36.	1.7	55
98	Uniform and Pitting Corrosion Modeling for High-Strength Bridge Wires. Journal of Bridge Engineering, 2014, 19, .	1.4	55
99	Fatigue life prediction for parallel-wire stay cables considering corrosion effects. International Journal of Fatigue, 2018, 114, 81-91.	2.8	55
100	Real-time identification of time-varying tension in stay cables by monitoring cable transversal acceleration. Structural Control and Health Monitoring, 2014, 21, 1100-1117.	1.9	54
101	Sparsel₁optimization-based identification approach for the distribution of moving heavy vehicle loads on cable-stayed bridges. Structural Control and Health Monitoring, 2016, 23, 144-155.	1.9	54
102	Analyzing and modeling inter-sensor relationships for strain monitoring data and missing data imputation: a copula and functional data-analytic approach. Structural Health Monitoring, 2019, 18, 1168-1188.	4.3	54
103	Compressive-sensing data reconstruction for structural health monitoring: a machine-learning approach. Structural Health Monitoring, 2020, 19, 293-304.	4.3	54
104	Cluster analysis of winds and wind-induced vibrations on a long-span bridge based on long-term field monitoring data. Engineering Structures, 2017, 138, 245-259.	2.6	53
105	Freezeâ€“thaw resistance of unidirectionalâ€fiberâ€reinforced epoxy composites. Journal of Applied Polymer Science, 2012, 123, 3781-3788.	1.3	52
106	Real-time hybrid simulation approach for performance validation of structural active control systems: a linear motor actuator based active mass driver case study. Structural Control and Health Monitoring, 2014, 21, 574-589.	1.9	51
107	Experimental investigation on the cyclic behaviors of corroded coastal bridge piers with transfer of plastic hinge due to non-uniform corrosion. Soil Dynamics and Earthquake Engineering, 2017, 102, 112-123.	1.9	51
108	Active control of circular cylinder flow with windward suction and leeward blowing. Experiments in Fluids, 2019, 60, 1.	1.1	51

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109	Suppression of vortex-induced vibration of a circular cylinder by a passive-jet flow control. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 199, 104119.	1.7	51
110	Role of nano-SiO2 in improving the microstructure and impermeability of concrete with different aggregate gradations. Construction and Building Materials, 2018, 188, 537-545.	3.2	50
111	Estimation and Warning of Fatigue Damage of FRP Stay Cables Based on Acoustic Emission Techniques and Fractal Theory. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 500-512.	6.3	49
112	Effects of attachments on aerodynamic characteristics and vortex-induced vibration of twin-box girder. Journal of Fluids and Structures, 2018, 77, 115-133.	1.5	49
113	Multi-modal vortex- and rainâ€“wind- induced vibrations of an inclined flexible cable. Mechanical Systems and Signal Processing, 2019, 118, 245-258.	4.4	49
114	Excitation mechanism of rainâ€“wind induced cable vibration in a wind tunnel. Journal of Fluids and Structures, 2017, 68, 32-47.	1.5	48
115	Monitoring and Failure Analysis of Corroded Bridge Cables under Fatigue Loading Using Acoustic Emission Sensors. Sensors, 2012, 12, 3901-3915.	2.1	47
116	Repair Effects and Acoustic Emission Techniqueâ€“Based Fracture Evaluation for Predamaged Concrete Columns Confined with Fiber-Reinforced Polymers. Journal of Composites for Construction, 2012, 16, 626-639.	1.7	47
117	Acoustic emission monitoring and damage assessment of FRP-strengthened reinforced concrete columns under cyclic loading. Construction and Building Materials, 2017, 144, 86-98.	3.2	47
118	Innovative compound-type anchorage system for a large-diameter pultruded carbon/glass hybrid rod for bridge cable. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	1.3	47
119	Seismic failure mode of coastal bridge piers considering the effects of corrosion-induced damage. Soil Dynamics and Earthquake Engineering, 2017, 93, 135-146.	1.9	46
120	Sparse representation for Lamb-wave-based damage detection using a dictionary algorithm. Ultrasonics, 2018, 87, 48-58.	2.1	46
121	Active mass driver control system for suppressing wind-induced vibration of the Canton Tower. Smart Structures and Systems, 2014, 13, 281-303.	1.9	46
122	An ultrasonic transmission thickness measurement system for study of water rivulets characteristics of stay cables suffering from windâ€“rain-induced vibration. Sensors and Actuators A: Physical, 2010, 159, 12-23.	2.0	45
123	Traffic load modelling based on structural health monitoring data. Structure and Infrastructure Engineering, 2011, 7, 379-386.	2.0	45
124	Seismic response control of a cable-stayed bridge using negative stiffness dampers. Structural Control and Health Monitoring, 2011, 18, 265-288.	1.9	45
125	Investigation of vibration mitigation of stay cables incorporated with superelastic shape memory alloy dampers. Smart Materials and Structures, 2007, 16, 2202-2213.	1.8	44
126	Modal identification of bridges under varying environmental conditions: Temperature and wind effects. Structural Control and Health Monitoring, 2009, 17, n/a-n/a.	1.9	44

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127	Numerical investigation of steady suction control of flow around a circular cylinder. Journal of Fluids and Structures, 2015, 59, 22-36.	1.5	44
128	Full scale strain monitoring of a suspension bridge using high performance distributed fiber optic sensors. Measurement Science and Technology, 2016, 27, 124017.	1.4	44
129	New insights into the solâ€“gel condensation of silica by reactive molecular dynamics simulations. Journal of Chemical Physics, 2018, 148, 234504.	1.2	44
130	Effects of gap width on flow motions around twin-box girders and vortex-induced vibrations. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 139, 37-49.	1.7	43
131	Experimental Study of the Seismic Behavior of Predamaged Reinforced-Concrete Columns Retrofitted with Basalt Fiberâ€“Reinforced Polymer. Journal of Composites for Construction, 2015, 19, .	1.7	43
132	Crystallization of calcium silicate hydrates on the surface of nanomaterials. Journal of the American Ceramic Society, 2017, 100, 3227-3238.	1.9	43
133	Weibull modeling of the fatigue life for steel rebar considering corrosion effects. International Journal of Fatigue, 2018, 111, 134-143.	2.8	43
134	LQD-RKHS-based distribution-to-distribution regression methodology for restoring the probability distributions of missing SHM data. Mechanical Systems and Signal Processing, 2019, 121, 655-674.	4.4	43
135	A design approach for semi-active and smart base-isolated buildings. Structural Control and Health Monitoring, 2006, 13, 660-681.	1.9	42
136	Theoretical analysis of electric, magnetic and magnetoelectric properties of nano-structured multiferroic composites. Journal of the Mechanics and Physics of Solids, 2011, 59, 1966-1977.	2.3	42
137	Design, calibration and application of wireless sensors for structural global and local monitoring of civil infrastructures. Smart Structures and Systems, 2010, 6, 641-659.	1.9	42
138	Experimental study of a simple reinforced concrete beam temporarily strengthened by SMA wires followed by permanent strengthening with CFRP plates. Engineering Structures, 2008, 30, 716-723.	2.6	41
139	Percolation backbone structure analysis in electrically conductive carbon fiber reinforced cement composites. Composites Part B: Engineering, 2012, 43, 3270-3275.	5.9	41
140	Ice monitoring of a full-scale wind turbine blade using ultrasonic guided waves under varying temperature conditions. Structural Control and Health Monitoring, 2018, 25, e2138.	1.9	41
141	Compressive sensing of wireless sensors based on group sparse optimization for structural health monitoring. Structural Health Monitoring, 2018, 17, 823-836.	4.3	41
142	Discovering time-varying aerodynamics of a prototype bridge by sparse identification of nonlinear dynamical systems. Physical Review E, 2019, 100, 022220.	0.8	41
143	A probabilistic damage identification approach for structures with uncertainties under unknown input. Mechanical Systems and Signal Processing, 2011, 25, 1126-1145.	4.4	40
144	Dempsterâ€“Shafer evidence theory approach to structural damage detection. Structural Health Monitoring, 2012, 11, 13-26.	4.3	40

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145	Landau expansion parameters for BaTiO3. Journal of Applied Physics, 2013, 114, .	1.1	40
146	Monitoring of bridge deformation using GPS technique. KSCE Journal of Civil Engineering, 2009, 13, 423-431.	0.9	39
147	Self-monitoring Properties of Concrete Columns with Embedded Cement-based Strain Sensors. Journal of Intelligent Material Systems and Structures, 2011, 22, 191-200.	1.4	39
148	Testing and analysis of basalt FRP-confined damaged concrete cylinders under axial compression loading. Construction and Building Materials, 2018, 169, 762-774.	3.2	39
149	Seismic performance of CFRP-retrofitted large-scale rectangular RC columns under lateral loading in different directions. Composite Structures, 2018, 192, 475-488.	3.1	39
150	Recent Progress in Fast Distributed Brillouin Optical Fiber Sensing. Applied Sciences (Switzerland), 2018, 8, 1820.	1.3	39
151	Control of circular cylinder flow via bilateral splitter plates. Physics of Fluids, 2019, 31, .	1.6	39
152	Structural Health Monitoring: From Sensing Technology Stepping to Health Diagnosis. Procedia Engineering, 2011, 14, 753-760.	1.2	38
153	Multi inputâ€“single output models identification of tower bridge movements using GPS monitoring system. Measurement: Journal of the International Measurement Confederation, 2014, 47, 531-539.	2.5	38
154	Strain Self-Sensing Property and Strain Rate Dependent Constitutive Model of Austenitic Shape Memory Alloy: Experiment and Theory. Journal of Materials in Civil Engineering, 2005, 17, 676-685.	1.3	37
155	A domain-independent interaction integral for magneto-electro-elastic materials. International Journal of Solids and Structures, 2014, 51, 336-351.	1.3	37
156	Effects of thermal aging on the water uptake behavior of pultruded BFRP plates. Polymer Degradation and Stability, 2014, 110, 216-224.	2.7	37
157	Application of the endurance time method to the seismic analysis and evaluation of highway bridges considering pounding effects. Engineering Structures, 2017, 131, 220-230.	2.6	37
158	Guided-wave signal processing by the sparse Bayesian learning approach employing Gabor pulse model. Structural Health Monitoring, 2017, 16, 347-362.	4.3	37
159	Combined effects of temperature, hydraulic pressure and salty concentration on the water uptake and mechanical properties of a carbon/glass fibers hybrid rod in salty solutions. Polymer Testing, 2019, 76, 19-32.	2.3	37
160	A novel self-powered MR damper: theoretical and experimental analysis. Smart Materials and Structures, 2015, 24, 105033.	1.8	36
161	Effect of nanoclay grafting onto flax fibers on the interfacial shear strength and mechanical properties of flax/epoxy composites. Polymer Composites, 2019, 40, 3482-3492.	2.3	36
162	Sensitivity and analysis GPS signals based bridge damage using GPS observations and wavelet transform. Measurement: Journal of the International Measurement Confederation, 2011, 44, 927-937.	2.5	35

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163	Multi-mode responses, rivulet dynamics, flow structures and mechanism of rain-wind induced vibrations of a flexible cable. Journal of Fluids and Structures, 2018, 82, 154-172.	1.5	35
164	Attribute-based structural damage identification by few-shot meta learning with inter-class knowledge transfer. Structural Health Monitoring, 2021, 20, 1494-1517.	4.3	35
165	Effect of the specific surface area of nano-silica particle on the properties of cement paste. Powder Technology, 2021, 392, 680-689.	2.1	35
166	Analysis of capability for semi-active or passive damping systems to achieve the performance of active control systems. Structural Control and Health Monitoring, 2010, 17, 778-794.	1.9	34
167	A novel distribution regression approach for data loss compensation in structural health monitoring. Structural Health Monitoring, 2018, 17, 1473-1490.	4.3	34
168	Time-resolved reconstruction of flow field around a circular cylinder by recurrent neural networks based on non-time-resolved particle image velocimetry measurements. Experiments in Fluids, 2020, 61, 1.	1.1	34
169	A novel long short-term memory neural-network-based self-excited force model of limit cycle oscillations of nonlinear flutter for various aerodynamic configurations. Nonlinear Dynamics, 2020, 100, 2071-2087.	2.7	34
170	Reliability assessment of cable-stayed bridges based on structural health monitoring techniques. Structure and Infrastructure Engineering, 2012, 8, 829-845.	2.0	33
171	A domain-independent interaction integral for fracture analysis of nonhomogeneous piezoelectric materials. International Journal of Solids and Structures, 2012, 49, 3301-3315.	1.3	33
172	Controlled Synthesis of Monodisperse Hexagonal NaYF4:Yb/Er Nanocrystals with Ultrasmall Size and Enhanced Upconversion Luminescence. Molecules, 2017, 22, 2113.	1.7	33
173	A novel anchorage system for CFRP cable: Experimental and numerical investigation. Composite Structures, 2018, 194, 555-563.	3.1	33
174	Vortex-induced vibration analysis of long-span bridges with twin-box decks under non-uniformly distributed turbulent winds. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 172, 31-41.	1.7	33
175	Reynolds number effects on aerodynamic characteristics and vortex-induced vibration of a twin-box girder. Journal of Fluids and Structures, 2014, 50, 358-375.	1.5	32
176	3-D modelling and statistical properties of surface pits of corroded wire based on image processing technique. Corrosion Science, 2016, 111, 275-287.	3.0	32
177	Investigation on the vortex-and-wake-induced vibration of a separated-box bridge girder. Journal of Fluids and Structures, 2017, 70, 145-161.	1.5	32
178	Experimental investigations on seismic control of cable-stayed bridges using shape memory alloy self-centering dampers. Structural Control and Health Monitoring, 2018, 25, e2180.	1.9	32
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