Gangbing Song

List of Publications by Year
in descending order

322 papers	10,798 citations	28242 55 h-index	66879 78 g-index
322 all docs	322 docs citations	322 times ranked	4522 citing authors

#	Article	IF	Citations
1	Smart aggregates: multi-functional sensors for concrete structures—a tutorial and a review. Smart Materials and Structures, 2008, 17, 033001.	1.8	297
2	Multivariate empirical mode decomposition and its application to fault diagnosis of rolling bearing. Mechanical Systems and Signal Processing, 2016, 81, 219-234.	4.4	182
3	Active interface debonding detection of a concrete-filled steel tube with piezoelectric technologies using wavelet packet analysis. Mechanical Systems and Signal Processing, 2013, 36, 7-17.	4.4	179
4	A review of damage detection methods for wind turbine blades. Smart Materials and Structures, 2015, 24, 033001.	1.8	165
5	Very early age concrete hydration characterization monitoring using piezoceramic based smart aggregates. Smart Materials and Structures, 2013, 22, 085025.	1.8	142
6	A Novel Fractal Contact-Electromechanical Impedance Model for Quantitative Monitoring of Bolted Joint Looseness. IEEE Access, 2018, 6, 40212-40220.	2.6	129
7	Bolt early looseness monitoring using modified vibro-acoustic modulation by time-reversal. Mechanical Systems and Signal Processing, 2019, 130, 349-360.	4.4	125
8	Proof-of-concept study of monitoring bolt connection status using a piezoelectric based active sensing method. Smart Materials and Structures, 2013, 22, 087001.	1.8	124
9	Seismic Control of Power Transmission Tower Using Pounding TMD. Journal of Engineering Mechanics - ASCE, 2013, 139, 1395-1406.	1.6	116
10	Monitoring Concrete Deterioration Due to Reinforcement Corrosion by Integrating Acoustic Emission and FBG Strain Measurements. Sensors, 2017, 17, 657.	2.1	114
11	A piezoelectric active sensing method for quantitative monitoring of bolt loosening using energy dissipation caused by tangential damping based on the fractal contact theory. Smart Materials and Structures, 2018, 27, 015023.	1.8	111
12	Inspection and monitoring systems subsea pipelines: A review paper. Structural Health Monitoring, 2020, 19, 606-645.	4.3	109
13	Monitoring of multi-bolt connection looseness using entropy-based active sensing and genetic algorithm-based least square support vector machine. Mechanical Systems and Signal Processing, 2020, 136, 106507.	4.4	106
14	Tapping and listening: a new approach to bolt looseness monitoring. Smart Materials and Structures, 2018, 27, 07LT02.	1.8	102
15	Review of Bolted Connection Monitoring. International Journal of Distributed Sensor Networks, 2013, 9, 871213.	1.3	101
16	A Review of Rock Bolt Monitoring Using Smart Sensors. Sensors, 2017, 17, 776.	2.1	98
17	Crack detection and leakage monitoring on reinforced concrete pipe. Smart Materials and Structures, 2015, 24, 115020.	1.8	97
18	Damage detection of concrete piles subject to typical damage types based on stress wave measurement using embedded smart aggregates transducers. Measurement: Journal of the International Measurement Confederation, 2016, 88, 345-352.	2.5	96

#	Article	IF	Citations
19	Detection of Debonding Between Fiber Reinforced Polymer Bar and Concrete Structure Using Piezoceramic Transducers and Wavelet Packet Analysis. IEEE Sensors Journal, 2017, 17, 1992-1998.	2.4	96
20	Modeling on energy harvesting from a railway system using piezoelectric transducers. Smart Materials and Structures, 2015, 24, 105017.	1.8	95
21	Vibration control of vortex-induced vibrations of a bridge deck by a single-side pounding tuned mass damper. Engineering Structures, 2018, 173, 61-75.	2.6	93
22	Health monitoring of reinforced concrete shear walls using smart aggregates. Smart Materials and Structures, 2009, 18, 047001.	1.8	92
23	New Crack Detection Method for Bridge Inspection Using UAV Incorporating Image Processing. Journal of Aerospace Engineering, 2018, 31, .	0.8	88
24	Structural Health Monitoring (SHM) of Civil Structures. Applied Sciences (Switzerland), 2017, 7, 789.	1.3	85
25	Interfacial debonding detection in fiber-reinforced polymer rebar–reinforced concrete using electro-mechanical impedance technique. Structural Health Monitoring, 2018, 17, 461-471.	4.3	85
26	Design of a New Vision-Based Method for the Bolts Looseness Detection in Flange Connections. IEEE Transactions on Industrial Electronics, 2020, 67, 1366-1375.	5.2	84
27	Active Debonding Detection for Large Rectangular CFSTs Based on Wavelet Packet Energy Spectrum with Piezoceramics. Journal of Structural Engineering, 2013, 139, 1435-1443.	1.7	83
28	Impedance based bolt pre-load monitoring using piezoceramic smart washer. Smart Materials and Structures, 2017, 26, 057004.	1.8	82
29	Percussion-based bolt looseness monitoring using intrinsic multiscale entropy analysis and BP neural network. Smart Materials and Structures, 2019, 28, 125001.	1.8	81
30	Multi-functional smart aggregate-based structural health monitoring of circular reinforced concrete columns subjected to seismic excitations. Smart Materials and Structures, 2010, 19, 065026.	1.8	80
31	ECG Signal De-noising and Baseline Wander Correction Based on CEEMDAN and Wavelet Threshold. Sensors, 2017, 17, 2754.	2.1	79
32	Concrete Infill Monitoring in Concrete-Filled FRP Tubes Using a PZT-Based Ultrasonic Time-of-Flight Method. Sensors, 2016, 16, 2083.	2.1	77
33	A fractal contact theory based model for bolted connection looseness monitoring using piezoceramic transducers. Smart Materials and Structures, 2017, 26, 104010.	1.8	76
34	A novel embeddable spherical smart aggregate for structural health monitoring: part I. Fabrication and electrical characterization. Smart Materials and Structures, 2017, 26, 095050.	1.8	76
35	Progressive collapse of a two-story reinforced concrete frame with embedded smart aggregates. Smart Materials and Structures, 2009, 18, 075001.	1.8	75
36	Monitoring the Soil Freeze-Thaw Process Using Piezoceramic-Based Smart Aggregate. Journal of Cold Regions Engineering - ASCE, 2014, 28, .	0.5	72

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37	Modeling and analysis of an impact-acoustic method for bolt looseness identification. Mechanical Systems and Signal Processing, 2019, 133, 106249.	4.4	72
38	Monitoring of Grouting Compactness in a Post-Tensioning Tendon Duct Using Piezoceramic Transducers. Sensors, 2016, 16, 1343.	2.1	71
39	Robustness study of the pounding tuned mass damper for vibration control of subsea jumpers. Smart Materials and Structures, 2015, 24, 095001.	1.8	68
40	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
41	Smart washer—a piezoceramic-based transducer to monitor looseness of bolted connection. Smart Materials and Structures, 2017, 26, 025033.	1.8	66
42	Health Degradation Monitoring and Early Fault Diagnosis of a Rolling Bearing Based on CEEMDAN and Improved MMSE. Materials, 2018, 11, 1009.	1.3	66
43	New entropy-based vibro-acoustic modulation method for metal fatigue crack detection: An exploratory study. Measurement: Journal of the International Measurement Confederation, 2020, 150, 107075.	2.5	66
44	Real time bolt preload monitoring using piezoceramic transducers and time reversal technique—a numerical study with experimental verification. Smart Materials and Structures, 2016, 25, 085015.	1.8	65
45	Bond-slip detection of concrete-encased composite structure using electro-mechanical impedance technique. Smart Materials and Structures, 2016, 25, 095003.	1.8	65
46	Development and Application of a Structural Health Monitoring System Based on Wireless Smart Aggregates. Sensors, 2017, 17, 1641.	2.1	65
47	Bond slip detection of concrete-encased composite structure using shear wave based active sensing approach. Smart Materials and Structures, 2015, 24, 125026.	1.8	64
48	Damage Detection of a Concrete Column Subject to Blast Loads Using Embedded Piezoceramic Transducers. Sensors, 2018, 18, 1377.	2.1	63
49	An Improved Method for Pipeline Leakage Localization With a Single Sensor Based on Modal Acoustic Emission and Empirical Mode Decomposition With Hilbert Transform. IEEE Sensors Journal, 2020, 20, 5480-5491.	2.4	63
50	Feasibility study of using smart aggregates as embedded acoustic emission sensors for health monitoring of concrete structures. Smart Materials and Structures, 2016, 25, 115031.	1.8	62
51	A Comparative Study of the Very Early Age Cement Hydration Monitoring Using Compressive and Shear Mode Smart Aggregates. IEEE Sensors Journal, 2017, 17, 256-260.	2.4	62
52	Impedance-Based Pre-Stress Monitoring of Rock Bolts Using a Piezoceramic-Based Smart Washer—A Feasibility Study. Sensors, 2017, 17, 250.	2.1	62
53	Bond slip detection of steel plate and concrete beams using smart aggregates. Smart Materials and Structures, 2015, 24, 115039.	1.8	61
54	A multi-delay-and-sum imaging algorithm for damage detection using piezoceramic transducers. Journal of Intelligent Material Systems and Structures, 2017, 28, 1150-1159.	1.4	61

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55	An experimental feasibility study of pipeline corrosion pit detection using a piezoceramic time reversal mirror. Smart Materials and Structures, 2016, 25, 037002.	1.8	60
56	Investigation of Bonding Behavior of FRP and Steel Bars in Self-Compacting Concrete Structures Using Acoustic Emission Method. Sensors, 2019, 19, 159.	2.1	56
57	Vibration suppression of a spacecraft flexible appendage using smart material. Smart Materials and Structures, 1998, 7, 95-104.	1.8	53
58	Smart aggregate based damage detection of circular RC columns under cyclic combined loading. Smart Materials and Structures, 2010, 19, 065021.	1.8	53
59	Experimental studies on the effectiveness and robustness of a pounding tuned mass damper for vibration suppression of a submerged cylindrical pipe. Structural Control and Health Monitoring, 2017, 24, e2027.	1.9	53
60	Identification of the structural damage mechanism of BFRP bars reinforced concrete beams using smart transducers based on time reversal method. Construction and Building Materials, 2019, 220, 615-627.	3.2	53
61	Adaptive antenna shape control using piezoelectric actuators. Acta Astronautica, 1997, 40, 821-826.	1.7	52
62	Corrosion detection of steel reinforced concrete using combined carbon fiber and fiber Bragg grating active thermal probe. Smart Materials and Structures, 2016, 25, 045017.	1.8	52
63	Monitoring of early looseness of multi-bolt connection: a new entropy-based active sensing method without saturation. Smart Materials and Structures, 2019, 28, 10LT01.	1.8	51
64	Monitoring of multi-bolt connection looseness using a novel vibro-acoustic method. Nonlinear Dynamics, 2020, 100, 243-254.	2.7	51
65	A smart "shear sensing" bolt based on FBG sensors. Measurement: Journal of the International Measurement Confederation, 2018, 122, 240-246.	2.5	50
66	Modeling, simulation, and validation of a pendulum-pounding tuned mass damper for vibration control. Structural Control and Health Monitoring, 2019, 26, e2326.	1.9	50
67	An acoustic emission based multi-level approach to buried gas pipeline leakage localization. Journal of Loss Prevention in the Process Industries, 2016, 44, 397-404.	1.7	49
68	Optimum design of a novel pounding tuned mass damper under harmonic excitation. Smart Materials and Structures, 2017, 26, 055024.	1.8	49
69	Vibration Suppression of Wind/Traffic/Bridge Coupled System Using Multiple Pounding Tuned Mass Dampers (MPTMD). Sensors, 2019, 19, 1133.	2.1	49
70	A novel percussion-based method for multi-bolt looseness detection using one-dimensional memory augmented convolutional long short-term memory networks. Mechanical Systems and Signal Processing, 2021, 161, 107955.	4.4	49
71	Hybrid active mass damper (AMD) vibration suppression of nonlinear high-rise structure using fuzzy logic control algorithm under earthquake excitations. Structural Control and Health Monitoring, 2011, 18, 698-709.	1.9	48
72	Vibration control of a traffic signal pole using a pounding tuned mass damper with viscoelastic materials (II): experimental verification. JVC/Journal of Vibration and Control, 2015, 21, 670-675.	1.5	48

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73	Investigation on eddy current pulsed thermography to detect hidden cracks on corroded metal surface. NDT and E International, 2016, 84, 27-35.	1.7	48
74	Detecting Damage Size and Shape in a Plate Structure Using PZT Transducer Array. Journal of Aerospace Engineering, 2018, 31, .	0.8	47
75	A novel embeddable spherical smart aggregate for structural health monitoring: part II. Numerical and experimental verifications. Smart Materials and Structures, 2017, 26, 095051.	1.8	47
76	Stress wave communication in concrete: I. Characterization of a smart aggregate based concrete channel. Smart Materials and Structures, 2014, 23, 125030.	1.8	46
77	Acoustic emission monitoring and finite element analysis of debonding in fiber-reinforced polymer rebar reinforced concrete. Structural Health Monitoring, 2017, 16, 674-681.	4.3	46
78	An experimental study of ultra-low power wireless sensor-based autonomous energy harvesting system. Journal of Renewable and Sustainable Energy, 2017, 9, .	0.8	46
79	Design and application of a fiber Bragg grating strain sensor with enhanced sensitivity in the small-scale dam model. Smart Materials and Structures, 2009, 18, 035015.	1.8	45
80	Experimental study of leakage detection of natural gas pipeline using FBG based strain sensor and least square support vector machine. Journal of Loss Prevention in the Process Industries, 2014, 32, 144-151.	1.7	45
81	Mechanical behavior of magnetorheological dampers after long-term operation in a cable vibration control system. Structural Control and Health Monitoring, 2019, 26, e2280.	1.9	45
82	Bolt-looseness detection by a new percussion-based method using multifractal analysis and gradient boosting decision tree. Structural Health Monitoring, 2020, 19, 2023-2032.	4.3	45
83	An exploratory study of stress wave communication in concrete structures. Smart Structures and Systems, 2015, 15, 135-150.	1.9	45
84	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
85	Water presence detection in a concrete crack using smart aggregates. International Journal of Smart and Nano Materials, 2015, 6, 149-161.	2.0	43
86	Optimal sensor placement for health monitoring of high-rise structure using adaptive monkey algorithm. Structural Control and Health Monitoring, 2015, 22, 667-681.	1.9	43
87	Design of a New Stress Wave-Based Pulse Position Modulation (PPM) Communication System with Piezoceramic Transducers. Sensors, 2019, 19, 558.	2.1	43
88	Shear loading detection of through bolts in bridge structures using a percussionâ€based oneâ€dimensional memoryâ€augmented convolutional neural network. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 289-301.	6.3	43
89	Experimental Study on Vibration Control of a Submerged Pipeline Model by Eddy Current Tuned Mass Damper. Applied Sciences (Switzerland), 2017, 7, 987.	1.3	42
90	A Fiber Bragg Grating (FBG)-Enabled Smart Washer for Bolt Pre-Load Measurement: Design, Analysis, Calibration, and Experimental Validation. Sensors, 2018, 18, 2586.	2.1	42

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91	PZT transducer array enabled pipeline defect locating based on time-reversal method and matching pursuit de-noising. Smart Materials and Structures, 2019, 28, 075019.	1.8	42
92	A nonlinear ultrasonic method for real-time bolt looseness monitoring using PZT transducerâ€"enabled vibro-acoustic modulation. Journal of Intelligent Material Systems and Structures, 2020, 31, 364-376.	1.4	42
93	Detection of subsurface voids in concrete-filled steel tubular (CFST) structure using percussion approach. Construction and Building Materials, 2020, 262, 119761.	3.2	42
94	Concrete structural health monitoring using piezoceramic-based wireless sensor networks. Smart Structures and Systems, 2010, 6, 731-748.	1.9	42
95	Modeling of the attenuation of stress waves in concrete based on the Rayleigh damping model using time-reversal and PZT transducers. Smart Materials and Structures, 2017, 26, 105030.	1.8	41
96	A load measuring anchor plate for rock bolt using fiber optic sensor. Smart Materials and Structures, 2017, 26, 057003.	1.8	40
97	Underwater pipeline impact localization using piezoceramic transducers. Smart Materials and Structures, 2017, 26, 107002.	1.8	40
98	Multimodal Vibration Control of a Flexible Structure using Piezoceramic Sensor and Actuator. Journal of Intelligent Material Systems and Structures, 2008, 19, 573-582.	1.4	39
99	Recentering Shape Memory Alloy Passive Damper for Structural Vibration Control. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	39
100	Monitoring of Corrosion-Induced Degradation in Prestressed Concrete Structure Using Embedded Piezoceramic-Based Transducers. IEEE Sensors Journal, 2017, 17, 5823-5830.	2.4	39
101	A review of shape memory materialâ€™s applications in the offshore oil and gas industry. Smart Materials and Structures, 2017, 26, 093002.	1.8	39
102	Smart crawfish: A concept of underwater multi-bolt looseness identification using entropy-enhanced active sensing and ensemble learning. Mechanical Systems and Signal Processing, 2021, 149, 107186.	4.4	39
103	Experimental Study on Carbon Fiber Tapeâ€"Based Deicing Technology. Journal of Cold Regions Engineering - ASCE, 2012, 26, 55-70.	0.5	38
104	Real-Time Monitoring of Water Content in Sandy Soil Using Shear Mode Piezoceramic Transducers and Active Sensingâ€”A Feasibility Study. Sensors, 2017, 17, 2395.	2.1	38
105	Damage Detection of L-Shaped Concrete Filled Steel Tube (L-CFST) Columns under Cyclic Loading Using Embedded Piezoceramic Transducers. Sensors, 2018, 18, 2171.	2.1	38
106	A PVDF-Based Sensor for Internal Stress Monitoring of a Concrete-Filled Steel Tubular (CFST) Column Subject to Impact Loads. Sensors, 2018, 18, 1682.	2.1	38
107	Monitoring of pin connection loosening using eletromechanical impedance: Numerical simulation with experimental verification. Journal of Intelligent Material Systems and Structures, 2018, 29, 1964-1973.	1.4	37
108	Multi-Fault Diagnosis of Rolling Bearings via Adaptive Projection Intrinsically Transformed Multivariate Empirical Mode Decomposition and High Order Singular Value Decomposition. Sensors, 2018, 18, 1210.	2.1	37

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109	Study of Impact Damage in PVA-ECC Beam under Low-Velocity Impact Loading Using Piezoceramic Transducers and PVDF Thin-Film Transducers. Sensors, 2018, 18, 671.	2.1	37
110	Numerical modeling and experimental study on a novel pounding tuned mass damper. JVC/Journal of Vibration and Control, 2018, 24, 4023-4036.	1.5	36
111	Monitoring Fatigue Damage of Modular Bridge Expansion Joints Using Piezoceramic Transducers. Sensors, 2018, 18, 3973.	2.1	36
112	Monitoring of Bolt Looseness-Induced Damage in Steel Truss Arch Structure Using Piezoceramic Transducers. IEEE Sensors Journal, 2018, 18, 6677-6685.	2.4	36
113	Monitor concrete moisture level using percussion and machine learning. Construction and Building Materials, 2019, 229, 117077.	3.2	36
114	Design of a new low-cost unmanned aerial vehicle and vision-based concrete crack inspection method. Structural Health Monitoring, 2020, 19, 1871-1883.	4.3	36
115	Detection of Interfacial Debonding in a Rubberâ€"Steel-Layered Structure Using Active Sensing Enabled by Embedded Piezoceramic Transducers. Sensors, 2017, 17, 2001.	2.1	35
116	Real-Time Monitoring of Early-Age Concrete Strength Using Piezoceramic-Based Smart Aggregates. Journal of Aerospace Engineering, 2019, 32, .	0.8	35
117	Evaluation of a pendulum pounding tuned mass damper for seismic control of structures. Engineering Structures, 2021, 228, 111554.	2.6	35
118	Load Monitoring of the Pin-Connected Structure Using Time Reversal Technique and Piezoceramic Transducersâ€"A Feasibility Study. IEEE Sensors Journal, 2016, 16, 7958-7966.	2.4	34
119	Quantitative evaluation of bolt connection using a single piezoceramic transducer and ultrasonic coda wave energy with the consideration of the piezoceramic aging effect. Smart Materials and Structures, 2020, 29, 027001.	1.8	34
120	Active vibration suppression of a flexible beam with piezoceramic patches using robust model reference control. Smart Materials and Structures, 2007, 16, 1453-1459.	1.8	33
121	Experimental Study on Stress Monitoring of Sand-Filled Steel Tube during Impact Using Piezoceramic Smart Aggregates. Sensors, 2017, 17, 1930.	2.1	33
122	Design of a Novel Wearable Sensor Device for Real-Time Bolted Joints Health Monitoring. IEEE Internet of Things Journal, 2018, 5, 5307-5316.	5.5	33
123	Robust Fault Diagnosis of Rolling Bearings Using Multivariate Intrinsic Multiscale Entropy Analysis and Neural Network Under Varying Operating Conditions. IEEE Access, 2019, 7, 130804-130819.	2.6	33
124	Post-fire mechanical properties of Q460 and Q690 high strength steels after fire-fighting foam cooling. Thin-Walled Structures, 2020, 156, 106983.	2.7	33
125	Effects of pre-fatigue damage on mechanical properties of Q690 high-strength steel. Construction and Building Materials, 2020, 252, 118845.	3.2	33
126	Damage detection of pipeline multiple cracks using piezoceramic transducers. Journal of Vibroengineering, 2016, 18, 2828-2838.	0.5	33

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127	A new optimal sliding mode controller design using scalar sign function. ISA Transactions, 2014, 53, 267-279.	3.1	32
128	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
129	Depth detection of subsurface voids in concrete-filled steel tubular (CFST) structure using percussion and decision tree. Measurement: Journal of the International Measurement Confederation, 2020, 163, 107869.	2.5	32
130	An Improved Negative Pressure Wave Method for Natural Gas Pipeline Leak Location Using FBG Based Strain Sensor and Wavelet Transform. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	31
131	Application of support vector machine for pattern classification of active thermometry-based pipeline scour monitoring. Structural Control and Health Monitoring, 2015, 22, 903-918.	1.9	31
132	If structure can exclaim: a novel robotic-assisted percussion method for spatial bolt-ball joint looseness detection. Structural Health Monitoring, 2021, 20, 1597-1608.	4.3	31
133	Passive base isolation with superelastic nitinol SMA helical springs. Smart Materials and Structures, 2014, 23, 065009.	1.8	30
134	Detection of multiple thin surface cracks using vibrothermography with low-power piezoceramic-based ultrasonic actuator—a numerical study with experimental verification. Smart Materials and Structures, 2016, 25, 055042.	1.8	30
135	Design of a New Mobile-Optimized Remote Laboratory Application Architecture for M-Learning. IEEE Transactions on Industrial Electronics, 2017, 64, 2382-2391.	5.2	30
136	An Embedded Tubular PZT Transducer Based Damage Imaging Method for Two-Dimensional Concrete Structures. IEEE Access, 2018, 6, 30100-30109.	2.6	30
137	Quantitative evaluation of debond in concrete-filled steel tubular member (CFSTM) using piezoceramic transducers and ultrasonic head wave amplitude. Smart Materials and Structures, 2019, 28, 075033.	1.8	30
138	Real-time monitoring stiffness degradation of hardened cement paste under uniaxial compression loading through piezoceramic-based electromechanical impedance method. Construction and Building Materials, 2020, 256, 119395.	3.2	30
139	Characterization of Ultrasound Energy Diffusion Due to Small-Size Damage on an Aluminum Plate Using Piezoceramic Transducers. Sensors, 2017, 17, 2796.	2.1	29
140	Grout compactness monitoring of concrete-filled fiber-reinforced polymer tube using electromechanical impedance. Smart Materials and Structures, 2018, 27, 055008.	1.8	29
141	Structural Stress Monitoring Based on Piezoelectric Impedance Frequency Shift. Journal of Aerospace Engineering, 2018, 31, .	0.8	29
142	Looseness detection in cup-lock scaffolds using percussion-based method. Automation in Construction, 2020, 118, 103266.	4.8	29
143	Identification and Control of an MR Damper With Stiction Effect and its Application in Structural Vibration Mitigation. IEEE Transactions on Control Systems Technology, 2012, 20, 1285-1301.	3.2	28
144	A fiber Bragg grating sensor for detection of liquid water in concrete structures. Smart Materials and Structures, 2013, 22, 055012.	1.8	28

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145	Monitoring of Pre-Load on Rock Bolt Using Piezoceramic-Transducer Enabled Time Reversal Method. Sensors, 2017, 17, 2467.	2.1	28
146	Real-Time Monitoring of Soil Compaction Using Piezoceramic-Based Embeddable Transducers and Wavelet Packet Analysis. IEEE Access, 2018, 6, 5208-5214.	2.6	28
147	Influence of Axial Load on Electromechanical Impedance (EMI) of Embedded Piezoceramic Transducers in Steel Fiber Concrete. Sensors, 2018, 18, 1782.	2.1	28
148	Piezo-based wireless sensor network for early-age concrete strength monitoring. Optik, 2016, 127, 2983-2987.	1.4	27
149	Experimental Study on Robustness of an Eddy Current-Tuned Mass Damper. Applied Sciences (Switzerland), 2017, 7, 895.	1.3	27
150	FBG Sensor for Contact Level Monitoring and Prediction of Perforation in Cardiac Ablation. Sensors, 2012, 12, 1002-1013.	2.1	26
151	A delay-and-Boolean-ADD imaging algorithm for damage detection with a small number of piezoceramic transducers. Smart Materials and Structures, 2016, 25, 095030.	1.8	26
152	Estimation of impact location on concrete column. Smart Materials and Structures, 2017, 26, 055037.	1.8	26
153	Measurement of the Length of Installed Rock Bolt Based on Stress Wave Reflection by Using a Giant Magnetostrictive (GMS) Actuator and a PZT Sensor. Sensors, 2017, 17, 444.	2.1	26
154	Stress wave communication in concrete: II. Evaluation of low voltage concrete stress wave communications utilizing spectrally efficient modulation schemes with PZT transducers. Smart Materials and Structures, 2014, 23, 125031.	1.8	25
155	Load monitoring of pin-connected structures using piezoelectric impedance measurement. Smart Materials and Structures, 2016, 25, 105011.	1.8	25
156	Health monitoring of cuplok scaffold joint connection using piezoceramic transducers and time reversal method. Smart Materials and Structures, 2016, 25, 035010.	1.8	25
157	Advanced Impact Force Model for Low-Speed Pounding between Viscoelastic Materials and Steel. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	25
158	1D-TICapsNet: An audio signal processing algorithm for bolt early looseness detection. Structural Health Monitoring, 2021, 20, 2828-2839.	4.3	25
159	Monitoring of bolt looseness using piezoelectric transducers: Three-dimensional numerical modeling with experimental verification. Journal of Intelligent Material Systems and Structures, 2020, 31, 911-918.	1.4	25
160	Detection of sand deposition in pipeline using percussion, voice recognition, and support vector machine. Structural Health Monitoring, 2020, 19, 2075-2090.	4.3	25
161	Feasibility Study on Crack Detection of Pipelines Using Piezoceramic Transducers. International Journal of Distributed Sensor Networks, 2013, 9, 631715.	1.3	24
162	Interlayer Slide Detection Using Piezoceramic Smart Aggregates Based on Active Sensing Approach. IEEE Sensors Journal, 2017, 17, 6160-6166.	2.4	24

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163	Finite Element Analysis of Grouting Compactness Monitoring in a Post-Tensioning Tendon Duct Using Piezoceramic Transducers. Sensors, 2017, 17, 2239.	2.1	24
164	Non-model-based semi-active vibration suppression of stay cables using magneto-rheological fluid dampers. Smart Materials and Structures, 2007, 16, 1447-1452.	1.8	23
165	Structural health monitoring of multi-spot welded joints using a lead zirconate titanate based active sensing approach. Smart Materials and Structures, 2016, 25, 015031.	1.8	23
166	A Novel Wiki-Based Remote Laboratory Platform for Engineering Education. IEEE Transactions on Learning Technologies, 2017, 10, 331-341.	2.2	23
167	Smart concrete slabs with embedded tubular PZT transducers for damage detection. Smart Materials and Structures, 2018, 27, 025002.	1.8	23
168	Quantitative evaluation of compactness of concrete-filled fiber-reinforced polymer tubes using piezoceramic transducers and time difference of arrival. Smart Materials and Structures, 2018, 27, 035023.	1.8	23
169	A novel method to monitor soft soil strength development in artificial ground freezing projects based on electromechanical impedance technique: Theoretical modeling and experimental validation. Journal of Intelligent Material Systems and Structures, 2020, 31, 1477-1494.	1.4	23
170	High resolution bolt pre-load looseness monitoring using coda wave interferometry. Structural Health Monitoring, 2022, 21, 1959-1972.	4.3	23
171	Hierarchical ensemble-based data fusion for structural health monitoring. Smart Materials and Structures, 2010, 19, 045009.	1.8	22
172	Semi-active vibration suppression of a space truss structure using a fault tolerant controller. JVC/Journal of Vibration and Control, 2012, 18, 1436-1453.	1.5	22
173	Influence of filler waviness and aspect ratio on the percolation threshold of carbon nanomaterials reinforced polymer nanocomposites. Journal of Materials Science, 2013, 48, 5727-5732.	1.7	22
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