Gangbing Song

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/64854/publications.pdf

Version: 2024-02-01

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	Grasping Force Control of Robotic Gripper With High Stiffness. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1105-1116.	3.7	7
2	Design of a networking stress wave communication method along pipelines. Mechanical Systems and Signal Processing, 2022, 164, 108192.	4.4	2
3	Matching Synchroextracting Transform for Mechanical Fault Diagnosis Under Variable-Speed Conditions. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	12
4	Fracture behaviors of HVFA-SCC mixed with seawater and sea-sand under three-point bending. Advances in Structural Engineering, 2022, 25, 716-735.	1.2	3
5	Experimental study on damping performance of a pounding tuned mass damper to vibration suppression of vortex-induced vibration. Ocean Engineering, 2022, 249, 110860.	1.9	5
6	High resolution bolt pre-load looseness monitoring using coda wave interferometry. Structural Health Monitoring, 2022, 21, 1959-1972.	4.3	23
7	1D-TICapsNet: An audio signal processing algorithm for bolt early looseness detection. Structural Health Monitoring, 2021, 20, 2828-2839.	4.3	25
8	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
9	Time reversal damage localization in concrete based on two-dimensional meso-scale modeling. Structural Health Monitoring, 2021, 20, 188-201.	4.3	10
10	Design of a New Stress Wave Communication Method for Underwater Communication. IEEE Transactions on Industrial Electronics, 2021, 68, 7370-7379.	5.2	15
11	A power waveform design based on OVSF-PPM for stress wave based wireless power transfer. Mechanical Systems and Signal Processing, 2021, 147, 107111.	4.4	3
12	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
13	Experimental study of mechanical and fresh properties of HVFA-SCC with and without PP fibers. Construction and Building Materials, 2021, 267, 121010.	3.2	15
14	An embeddable spherical smart aggregate for monitoring concrete hydration in very early age based on electromechanical impedance method. Journal of Intelligent Material Systems and Structures, 2021, 32, 537-548.	1.4	22
15	Estimate buried metal pipe length using PZT detected stress wave reflection. Journal of Intelligent Material Systems and Structures, 2021, 32, 799-816.	1.4	1
16	A feasibility study on elbow erosion monitoring using active sensing approach and fractional Fourier transform. Journal of Intelligent Material Systems and Structures, 2021, 32, 584-596.	1.4	3
17	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
18	Attenuation characteristics of stress wave in cracked concrete beam using smart aggregate transducers enabled time-reversal technique. Journal of Intelligent Material Systems and Structures, 2021, 32, 473-485.	1.4	10

#	Article	IF	Citations
19	Riding Stress Wave: Underwater Communications Through Pipeline Networks. IEEE Journal of Oceanic Engineering, 2021, 46, 1450-1462.	2.1	5
20	Monitoring of viscous damper fluid viscosity using piezoceramic transducersâ€"a feasibility study. Smart Materials and Structures, 2021, 30, 025034.	1.8	5
21	Evaluation of a pendulum pounding tuned mass damper for seismic control of structures. Engineering Structures, 2021, 228, 111554.	2.6	35
22	Monitoring of Grouting Compactness in a Post-Tensioning Curve Tendon Duct Using Piezoceramic Transducers. , 2021, , .		0
23	Two-Dimensional Deformation Estimation of Beam-Like Structures Using Inverse Finite-Element Method: Theoretical Study and Experimental Validation. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	14
24	Reverberating Stress Wave Channel Capacity in Pipe Communications. , 2021, , .		0
25	Robotics assisted smart-touch pipeline inspection. International Journal of Intelligent Robotics and Applications, 2021, 5, 326-336.	1.6	2
26	A feasibility study on monitoring of weld fatigue crack growth based on coda wave interferometry (CWI). Smart Materials and Structures, 2021, 30, 095013.	1.8	9
27	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
28	Measurement and evaluation of soft soil strength development during freeze-thaw process based on electromechanical impedance technique. Measurement Science and Technology, 2021, 32, 025113.	1.4	9
29	Aeolian Vibration Control of Power Transmission Line Using Stockbridge Type Dampers â€" A Review. International Journal of Structural Stability and Dynamics, 2021, 21, 2130001.	1.5	19
30	A Novel Design of Mobile Robotic System for Opening and Transitioning Through a Watertight Ship Door. , 2021, , .		3
31	A Low Complexity Aggregation Method for Underwater On-Pipe Sensor Network. , 2021, , .		0
32	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
33	Inspection and monitoring systems subsea pipelines: A review paper. Structural Health Monitoring, 2020, 19, 606-645.	4.3	109
34	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
35	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
36	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

#	Article	IF	Citations
37	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
38	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
39	Active Disturbance Rejection Control for Grasping Force Tracking. , 2020, , .		1
40	An experimental study on a high-efficient multifunctional U-shaped piezoelectric coupled beam. Energy Conversion and Management, 2020, 224, 113330.	4.4	19
41	Percussion-based Detection of Bolt Looseness Using Speech Recognition Technology and Least Square Support Vector Machine. , 2020, , .		2
42	A new acoustic emission damage localization method using synchrosqueezed wavelet transforms picker and time-order method. Structural Health Monitoring, 2020, , 147592172097704.	4.3	8
43	Passive Seismic Protection of Building Piping SystemsÂâ€" A Review. International Journal of Structural Stability and Dynamics, 2020, 20, 2030001.	1.5	10
44	Monitoring of bending stiffness of BFRP reinforced concrete beams using piezoceramic transducer enabled active sensing. Smart Materials and Structures, 2020, 29, 105012.	1.8	14
45	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
46	Looseness detection in cup-lock scaffolds using percussion-based method. Automation in Construction, 2020, 118, 103266.	4.8	29
47	Monitoring of Grouting Compactness in Tendon Duct Using Multi-Sensing Electro-Mechanical Impedance Method. Applied Sciences (Switzerland), 2020, 10, 2018.	1.3	8
48	Editorial for Special Issue â€œEnergy Dissipation and Vibration Control: Materials, Modeling, Algorithm, and Devicesâ€. Applied Sciences (Switzerland), 2020, 10, 572.	1.3	1
49	New Type of Pounding Tuned Mass Damper for Confined Space. Journal of Aerospace Engineering, 2020, 33, .	0.8	8
50	A Novel Comparative Study of European, Chinese and American Codes on Bolt Tightening Sequence Using Smart Bolts. International Journal of Steel Structures, 2020, 20, 910-918.	0.6	8
51	Uniaxial Compressive Behavior of Concrete Columns Confined with Superelastic Shape Memory Alloy Wires. Materials, 2020, 13, 1227.	1.3	20
52	A New Approach to Identifying Crash Hotspot Intersections (CHIs) Using Spatial Weights Matrices. Applied Sciences (Switzerland), 2020, 10, 1625.	1.3	4
53	Detection of subsurface voids in concrete-filled steel tubular (CFST) structure using percussion approach. Construction and Building Materials, 2020, 262, 119761.	3.2	42
54	Experimental study on seismic control of towers in cable-supported bridges by incorporating fluid viscous dampers between sub-towers. Advances in Structural Engineering, 2020, 23, 2086-2096.	1.2	5

#	Article	IF	Citations
55	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
56	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
57	Monitoring of multi-bolt connection looseness using a novel vibro-acoustic method. Nonlinear Dynamics, 2020, 100, 243-254.	2.7	51
58	Novel Hidden Pounding Tuned Mass Damper for Vibration Control of a Cantilevered Traffic Signal Structure. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	5
59	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
60	Identification of bond behavior between FRP/steel bars and self-compacting concrete using piezoceramic transducers based on wavelet energy analysis. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	15
61	Detection of Surface Breaking Cracks Filled With Solid Impurities Using a Baseline-Free NEWS-TR Method. IEEE Access, 2020, 8, 56908-56920.	2.6	4
62	Effects of pre-fatigue damage on mechanical properties of Q690 high-strength steel. Construction and Building Materials, 2020, 252, 118845.	3.2	33
63	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
64	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
65	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
66	Feasibility study of a touch-enabled active sensing approach to inspecting subsea bolted connections using piezoceramic transducers. Smart Materials and Structures, 2020, 29, 085038.	1.8	17
67	A novel OFDR-based distributed optical fiber sensing tape: design, optimization, calibration and application. Smart Materials and Structures, 2020, 29, 105017.	1.8	11
68	Detection of sand deposition in pipeline using percussion, voice recognition, and support vector machine. Structural Health Monitoring, 2020, 19, 2075-2090.	4.3	25
69	Investigation of the Structural Behaviors of One-way HVFA-SCC Slabs Reinforced by GFRP Bars. Current Chinese Science, 2020, 1, 160-182.	0.2	1
70	Percussion-based bolt looseness monitoring using intrinsic multiscale entropy analysis and BP neural network. Smart Materials and Structures, 2019, 28, 125001.	1.8	81
71	Modeling and analysis of an impact-acoustic method for bolt looseness identification. Mechanical Systems and Signal Processing, 2019, 133, 106249.	4.4	72
72	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

#	Article	IF	Citations
73	Fatigue Crack Width Detection Based on the Active Sensing Method: A Feasibility Study. , 2019, , .		1
74	Monitor concrete moisture level using percussion and machine learning. Construction and Building Materials, 2019, 229, 117077.	3.2	36
75	Emerging Construction Materials and Sustainable Infrastructure. Applied Sciences (Switzerland), 2019, 9, 4127.	1.3	3
76	A study on a nearâ€shore cantilevered sea wave energy harvester with a variable cross section. Energy Science and Engineering, 2019, 7, 3174-3185.	1.9	15
77	Structural Damage Detection and Health Monitoring. Applied Sciences (Switzerland), 2019, 9, 4027.	1.3	2
78	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
79	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
80	Bolt early looseness monitoring using modified vibro-acoustic modulation by time-reversal. Mechanical Systems and Signal Processing, 2019, 130, 349-360.	4.4	125
81	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
82	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
83	Design and control performance of a frictional tuned mass damper with bearingâ€“shaft assemblies. JVC/Journal of Vibration and Control, 2019, 25, 1812-1822.	1.5	20
84	Design of a New Stress Wave-Based Pulse Position Modulation (PPM) Communication System with Piezoceramic Transducers. Sensors, 2019, 19, 558.	2.1	43
85	Vibration Suppression of Wind/Traffic/Bridge Coupled System Using Multiple Pounding Tuned Mass Dampers (MPTMD). Sensors, 2019, 19, 1133.	2.1	49
86	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
87	Identify Road Clusters with High-Frequency Crashes Using Spatial Data Mining Approach. Applied Sciences (Switzerland), 2019, 9, 5282.	1.3	5
88	Real-Time Monitoring of Early-Age Concrete Strength Using Piezoceramic-Based Smart Aggregates. Journal of Aerospace Engineering, 2019, 32, .	0.8	35
89	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
90	Analytical study of influence of boundary conditions on acoustic power transfer through an elastic barrier. Smart Materials and Structures, 2019, 28, 025004.	1.8	13

#	Article	IF	Citations
91	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
92	Real-Time Monitoring of Soil Compaction Using Piezoceramic-Based Embeddable Transducers and Wavelet Packet Analysis. IEEE Access, 2018, 6, 5208-5214.	2.6	28
93	Grout compactness monitoring of concrete-filled fiber-reinforced polymer tube using electromechanical impedance. Smart Materials and Structures, 2018, 27, 055008.	1.8	29
94	Method for Rapid Impact Localization for Subsea Structures. IEEE Sensors Journal, 2018, 18, 3554-3563.	2.4	16
95	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
96	Experimental Study on Anti-Icing and Deicing for Model Wind Turbine Blades with Continuous Carbon Fiber Sheets. Journal of Cold Regions Engineering - ASCE, 2018, 32, .	0.5	19
97	Smart concrete slabs with embedded tubular PZT transducers for damage detection. Smart Materials and Structures, 2018, 27, 025002.	1.8	23
98	A Time Reversal Based Pipeline Leakage Localization Method With the Adjustable Resolution. IEEE Access, 2018, 6, 26993-27000.	2.6	18
99	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
100	Connection looseness detection of steel grid structures using piezoceramic transducers. International Journal of Distributed Sensor Networks, 2018, 14, 155014771875923.	1.3	5
101	A Novel Waveform Optimization Scheme for Piezoelectric Sensors Wire-Free Charging in the Tightly Insulated Environment. IEEE Internet of Things Journal, 2018, 5, 1936-1946.	5.5	21
102	A smart â€œshear sensingâ€•bolt based on FBG sensors. Measurement: Journal of the International Measurement Confederation, 2018, 122, 240-246.	2.5	50
103	Interfacial debonding detection in fiber-reinforced polymer rebarâ€“reinforced concrete using electro-mechanical impedance technique. Structural Health Monitoring, 2018, 17, 461-471.	4.3	85
104	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
105	An automatic extraction algorithm for measurement of installed rock bolt length based on stress wave reflection. Measurement: Journal of the International Measurement Confederation, 2018, 122, 563-572.	2.5	13
106	Feedback Control for Structural Health Monitoring in a Smart Aggregate Based Sensor Network. International Journal of Structural Stability and Dynamics, 2018, 18, 1850064.	1.5	4
107	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
108	A novel time reversal sub-group imaging method with noise suppression for damage detection of plate-like structures. Structural Control and Health Monitoring, 2018, 25, e2111.	1.9	11

#	Article	IF	Citations
109	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
110	Load monitoring of the pin-connected structure based on wavelet packet analysis using piezoceramic transducers. Measurement: Journal of the International Measurement Confederation, 2018, 122, 638-647.	2.5	19
111	Fault Diagnosis of Rolling Bearing Based on a Novel Adaptive High-Order Local Projection Denoising Method. Complexity, 2018, 2018, 1-15.	0.9	11
112	Pipeline Damage Detection Using Piezoceramic Transducers: Numerical Analyses with Experimental Validation. Sensors, 2018, 18, 2106.	2.1	18
113	Monitoring Fatigue Damage of Modular Bridge Expansion Joints Using Piezoceramic Transducers. Sensors, 2018, 18, 3973.	2.1	36
114	Piezoceramic Smart Washer Enabled Bolt Pre-Load Monitoring Using Impedance Method. , 2018, , .		0
115	Fault Identification, Diagnosis, and Prognostics Based on Complex Signal Analysis. Complexity, 2018, 2018, 1-2.	0.9	1
116	PZT-Based Ultrasonic Guided Wave Frequency Dispersion Characteristics of Tubular Structures for Different Interfacial Boundaries. Sensors, 2018, 18, 4111.	2.1	16
117	Feasibility Study of Real-Time Monitoring of Pin Connection Wear Using Acoustic Emission. Applied Sciences (Switzerland), 2018, 8, 1775.	1.3	9
118	Structure Damage Identification Based on Regularized ARMA Time Series Model under Environmental Excitation. Vibration, 2018, 1, 138-156.	0.9	8
119	Enhancing the Visibility of Delamination during Pulsed Thermography of Carbon Fiber-Reinforced Plates Using a Stacked Autoencoder. Sensors, 2018, 18, 2809.	2.1	20
120	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
121	Systematic Development of a Wireless Sensor Network for Piezo-Based Sensing. Journal of Sensors, 2018, 2018, 1-12.	0.6	2
122	Wear Degree Quantification of Pin Connections Using Parameter-Based Analyses of Acoustic Emissions. Sensors, 2018, 18, 3503.	2.1	4
123	Monitoring of Bolt Looseness-Induced Damage in Steel Truss Arch Structure Using Piezoceramic Transducers. IEEE Sensors Journal, 2018, 18, 6677-6685.	2.4	36
124	A Theoretical Model for Designing the Novel Embeddable Spherical Smart Aggregate. IEEE Access, 2018, 6, 48403-48417.	2.6	11
125	Damage Detection of Refractory Based on Principle Component Analysis and Gaussian Mixture Model. Complexity, 2018, 2018, 1-9.	0.9	4
126	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

#	Article	IF	Citations
127	Detecting Damage Size and Shape in a Plate Structure Using PZT Transducer Array. Journal of Aerospace Engineering, 2018, 31, .	0.8	47
128	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
129	Feasibility Study of Interlayer Slide Monitoring Using Postembedded Piezoceramic Smart Aggregates. Journal of Sensors, 2018, 2018, 1-10.	0.6	11
130	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
131	An Embedded Tubular PZT Transducer Based Damage Imaging Method for Two-Dimensional Concrete Structures. IEEE Access, 2018, 6, 30100-30109.	2.6	30
132	Structural Stress Monitoring Based on Piezoelectric Impedance Frequency Shift. Journal of Aerospace Engineering, 2018, 31, .	0.8	29
133	Impact Fatigue of Viscoelastic Materials Subjected to Pounding. Applied Sciences (Switzerland), 2018, 8, 117.	1.3	12
134	Vibration Reduction of an Existing Glass Window through a Viscoelastic Material-Based Retrofit. Applied Sciences (Switzerland), 2018, 8, 1061.	1.3	14
135	Health Degradation Monitoring and Early Fault Diagnosis of a Rolling Bearing Based on CEEMDAN and Improved MMSE. Materials, 2018, 11, 1009.	1.3	66
136	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
137	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
138	Influence of Axial Load on Electromechanical Impedance (EMI) of Embedded Piezoceramic Transducers in Steel Fiber Concrete. Sensors, 2018, 18, 1782.	2.1	28
139	A Novel Fractal Contact-Electromechanical Impedance Model for Quantitative Monitoring of Bolted Joint Looseness. IEEE Access, 2018, 6, 40212-40220.	2.6	129
140	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
141	Damage Detection of a Concrete Column Subject to Blast Loads Using Embedded Piezoceramic Transducers. Sensors, 2018, 18, 1377.	2.1	63
142	Development of a Novel Guided Wave Generation System Using a Giant Magnetostrictive Actuator for Nondestructive Evaluation. Sensors, 2018, 18, 779.	2.1	20
143	Evaluation of the Effect of Fly Ash on Hydration Characterization in Self-Compacting Concrete (SCC) at Very Early Ages Using Piezoceramic Transducers. Sensors, 2018, 18, 2489.	2.1	21
144	Pipeline two-dimensional impact location determination using time of arrival with instant phase (TOAIP) with piezoceramic transducer array. Smart Materials and Structures, 2018, 27, 105003.	1.8	20

#	Article	IF	Citations
145	Tapping and listening: a new approach to bolt looseness monitoring. Smart Materials and Structures, 2018, 27, 07LT02.	1.8	102
146	Electromechanical Characteristics of Radially Layered Piezoceramic/Epoxy Cylindrical Composite Transducers: Theoretical Solution, Numerical Simulation, and Experimental Verification. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1643-1656.	1.7	15
147	New Crack Detection Method for Bridge Inspection Using UAV Incorporating Image Processing. Journal of Aerospace Engineering, 2018, 31, .	0.8	88
148	Grouting monitoring of post-tensioning tendon duct using PZT enabled time-reversal method. Measurement: Journal of the International Measurement Confederation, 2018, 122, 513-521.	2.5	19
149	A systematic design approach of an embedded-control material-strength testing system. Transactions of the Institute of Measurement and Control, 2017, 39, 3-17.	1.1	2
150	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
151	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
152	Smart washerâ€"a piezoceramic-based transducer to monitor looseness of bolted connection. Smart Materials and Structures, 2017, 26, 025033.	1.8	66
153	Real time monitoring of spot-welded joints under service load using lead zirconate titanate (PZT) transducers. Smart Materials and Structures, 2017, 26, 035059.	1.8	8
154	Fiber optic macro-bend based sensor for detection of metal loss. Smart Materials and Structures, 2017, 26, 045002.	1.8	19
155	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
156	Embedded piezoelectric lead-zirconate-titanate-based dynamic internal normal stress sensor for concrete under impact. Journal of Intelligent Material Systems and Structures, 2017, 28, 2659-2674.	1.4	19
157	Fiber Bragg grating based arterial localization device. Smart Materials and Structures, 2017, 26, 065020.	1.8	5
158	Optimum design of a novel pounding tuned mass damper under harmonic excitation. Smart Materials and Structures, 2017, 26, 055024.	1.8	49
159	Impedance based bolt pre-load monitoring using piezoceramic smart washer. Smart Materials and Structures, 2017, 26, 057004.	1.8	82
160	Wireless energy harvesting using time reversal technique: An experimental study with numerical verification. Journal of Intelligent Material Systems and Structures, 2017, 28, 2705-2716.	1.4	16
161	A load measuring anchor plate for rock bolt using fiber optic sensor. Smart Materials and Structures, 2017, 26, 057003.	1.8	40
162	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

#	Article	IF	Citations
163	Estimation of impact location on concrete column. Smart Materials and Structures, 2017, 26, 055037.	1.8	26
164	Early Determination of the Presence of Low Strength Concrete in Reinforced Concrete Beam-Column Joints Using Piezoceramic-Based Transducers. IEEE Sensors Journal, 2017, 17, 3244-3250.	2.4	20
165	An innovative method for automatic determination of time of arrival for Lamb waves excited by impact events. Smart Materials and Structures, 2017, 26, 055013.	1.8	13
166	Advanced Impact Force Model for Low-Speed Pounding between Viscoelastic Materials and Steel. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	25
167	Interlayer Slide Detection Using Piezoceramic Smart Aggregates Based on Active Sensing Approach. IEEE Sensors Journal, 2017, 17, 6160-6166.	2.4	24
168	Identification of the impact direction using the beat signals detected by piezoceramic sensors. Smart Materials and Structures, 2017, 26, 085020.	1.8	14
169	A fractal contact theory based model for bolted connection looseness monitoring using piezoceramic transducers. Smart Materials and Structures, 2017, 26, 104010.	1.8	76
170	Monitoring of Corrosion-Induced Degradation in Prestressed Concrete Structure Using Embedded Piezoceramic-Based Transducers. IEEE Sensors Journal, 2017, 17, 5823-5830.	2.4	39
171	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
172	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
173	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
174	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
175	A Novel Wiki-Based Remote Laboratory Platform for Engineering Education. IEEE Transactions on Learning Technologies, 2017, 10, 331-341.	2.2	23
176	Systematic development of an optimized real-time embedded control platform. , 2017, , .		0
177	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
178	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
179	Monitoring Concrete Deterioration Due to Reinforcement Corrosion by Integrating Acoustic Emission and FBG Strain Measurements. Sensors, 2017, 17, 657.	2.1	114
180	A Review of Rock Bolt Monitoring Using Smart Sensors. Sensors, 2017, 17, 776.	2.1	98

#	Article	IF	Citations
181	Development and Application of a Structural Health Monitoring System Based on Wireless Smart Aggregates. Sensors, 2017, 17, 1641.	2.1	65
182	Experimental Study on Stress Monitoring of Sand-Filled Steel Tube during Impact Using Piezoceramic Smart Aggregates. Sensors, 2017, 17, 1930.	2.1	33
183	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
184	Finite Element Analysis of Grouting Compactness Monitoring in a Post-Tensioning Tendon Duct Using Piezoceramic Transducers. Sensors, 2017, 17, 2239.	2.1	24
185	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
186	Dynamic Modelling of Embeddable Piezoceramic Transducers. Sensors, 2017, 17, 2801.	2.1	14
187	Experimental Study on Robustness of an Eddy Current-Tuned Mass Damper. Applied Sciences (Switzerland), 2017, 7, 895.	1.3	27
188	PTMD Control on a Benchmark TV Tower under Earthquake and Wind Load Excitations. Applied Sciences (Switzerland), 2017, 7, 425.	1.3	20
189	Structural Health Monitoring (SHM) of Civil Structures. Applied Sciences (Switzerland), 2017, 7, 789.	1.3	85
190	Energy Dissipation and Vibration Control: Modeling, Algorithm, and Devices. Applied Sciences (Switzerland), 2017, 7, 801.	1.3	12
191	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
192	Underwater pipeline impact localization using piezoceramic transducers. Smart Materials and Structures, 2017, 26, 107002.	1.8	40
193	ECG Signal De-noising and Baseline Wander Correction Based on CEEMDAN and Wavelet Threshold. Sensors, 2017, 17, 2754.	2.1	79
194	Monitoring of Pre-Load on Rock Bolt Using Piezoceramic-Transducer Enabled Time Reversal Method. Sensors, 2017, 17, 2467.	2.1	28
195	Characterization of Ultrasound Energy Diffusion Due to Small-Size Damage on an Aluminum Plate Using Piezoceramic Transducers. Sensors, 2017, 17, 2796.	2.1	29
196	Impedance-Based Pre-Stress Monitoring of Rock Bolts Using a Piezoceramic-Based Smart Washerâ€”A Feasibility Study. Sensors, 2017, 17, 250.	2.1	62
197	Experimental Investigation on the Detection of Multiple Surface Cracks Using Vibrothermography with a Low-Power Piezoceramic Actuator. Sensors, 2017, 17, 2705.	2.1	21
198	Integration of a remote PID motor speed control experiment with teaching in engineering education. Engineering Education Letters, 2017, 2017, .	0.0	1

#	Article	IF	Citations
199	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
200	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
201	Monitoring of Grouting Compactness in a Post-Tensioning Tendon Duct Using Piezoceramic Transducers. Sensors, 2016, 16, 1343.	2.1	71
202	Concrete Infill Monitoring in Concrete-Filled FRP Tubes Using a PZT-Based Ultrasonic Time-of-Flight Method. Sensors, 2016, 16, 2083.	2.1	77
203	Cooperative wireless power transmission method based on time reversal technology. , 2016, , .		0
204	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
205	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
206	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
207	Load monitoring of pin-connected structures using piezoelectric impedance measurement. Smart Materials and Structures, 2016, 25, 105011.	1.8	25
208	Real time bolt preload monitoring using piezoceramic transducers and time reversal techniqueâ€"a numerical study with experimental verification. Smart Materials and Structures, 2016, 25, 085015.	1.8	65
209	Electromechanical properties of smart aggregate: theoretical modeling and experimental validation. Smart Materials and Structures, 2016, 25, 095008.	1.8	20
210	Bond-slip detection of concrete-encased composite structure using electro-mechanical impedance technique. Smart Materials and Structures, 2016, 25, 095003.	1.8	65
211	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
212	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
213	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
214	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
215	Structures in Challenging Environments: Dynamics, Controls, Smart Structures, Health Monitoring, and Sensors. , 2016, , .		2
216	Structures in Challenging Environments: Dynamics, Controls, Smart Structures, Health Monitoring, and Sensors. , 2016, , .		0

#	Article	IF	Citations
217	Structures in Challenging Environments: Dynamics, Controls, Smart Structures, Health Monitoring, and Sensors. , 2016, , .		0
218	Health monitoring of cuplok scaffold joint connection using piezoceramic transducers and time reversal method. Smart Materials and Structures, 2016, 25, 035010.	1.8	25
219	Severity evaluation of the transverse crack in a cylindrical part using a PZT wafer based on an interval energy approach. Smart Materials and Structures, 2016, 25, 035021.	1.8	15
220	Empirical mapping of ZrCu-based alloys with valence electrons versus transformation temperatures. Science China Materials, 2016, 59, 151-157.	3.5	15
221	Detection of multiple thin surface cracks using vibrothermography with low-power piezoceramic-based ultrasonic actuatorâ€"a numerical study with experimental verification. Smart Materials and Structures, 2016, 25, 055042.	1.8	30
222	Piezo-based wireless sensor network for early-age concrete strength monitoring. Optik, 2016, 127, 2983-2987.	1.4	27
223	Shape memory alloy actuated accumulator for ultra-deepwater oil and gas exploration. Smart Materials and Structures, 2016, 25, 045012.	1.8	14
224	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
225	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
226	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
227	Time-delayed dynamic neural network-based model for hysteresis behavior of shape-memory alloys. Neural Computing and Applications, 2016, 27, 1519-1531.	3.2	8
228	Multiple Pounding Tuned Mass Damper (MPTMD) control on benchmark tower subjected to earthquake excitations. Earthquake and Structures, 2016, 11, 1123-1141.	1.0	13
229	Damage detection of pipeline multiple cracks using piezoceramic transducers. Journal of Vibroengineering, 2016, 18, 2828-2838.	0.5	33
230	A Phenomenological Model for Superelastic Shape Memory Alloy Helical Springs. Advances in Structural Engineering, 2015, 18, 1345-1354.	1.2	5
231	Crack detection and leakage monitoring on reinforced concrete pipe. Smart Materials and Structures, 2015, 24, 115020.	1.8	97
232	Bond slip detection of steel plate and concrete beams using smart aggregates. Smart Materials and Structures, 2015, 24, 115039.	1.8	61
233	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
234	Improved tensile properties of carbon nanotube modified epoxy and its continuous carbon fiber reinforced composites. Polymer Composites, 2015, 36, 1664-1668.	2.3	15

#	Article	IF	Citations
235	Using Node-HTTP-Proxy for Remote Experiment Data Transmission Traversing Firewall. International Journal of Online and Biomedical Engineering, 2015, 11, 60.	0.9	8
236	Distributed Sensor Networks for Health Monitoring of Civil Infrastructures. Shock and Vibration, 2015, 2015, 1-3.	0.3	5
237	Health Status Monitoring of Cuplock Scaffold Joint Connection Based on Wavelet Packet Analysis. Shock and Vibration, 2015, 2015, 1-7.	0.3	17
238	Water presence detection in a concrete crack using smart aggregates. International Journal of Smart and Nano Materials, 2015, 6, 149-161.	2.0	43
239	Modeling on energy harvesting from a railway system using piezoelectric transducers. Smart Materials and Structures, 2015, 24, 105017.	1.8	95
240	Develop a scheduler and federated authentication for remote laboratory access. , 2015, , .		3
241	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
242	A review of damage detection methods for wind turbine blades. Smart Materials and Structures, 2015, 24, 033001.	1.8	165
243	Modeling and optimization of adjustable multifrequency axially polarized multilayer composite cylindrical transducer. Smart Materials and Structures, 2015, 24, 045003.	1.8	10
244	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
245	Robustness study of the pounding tuned mass damper for vibration control of subsea jumpers. Smart Materials and Structures, 2015, 24, 095001.	1.8	68
246	A multi-scale non-parametric and parametric hybrid multi-category recognition algorithm with probabilistic outputs. Journal of Experimental and Theoretical Artificial Intelligence, 2015, 27, 487-500.	1.8	0
247	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
248	Inference of bond slip in prestressed tendons in concrete bridge girders. Structural Control and Health Monitoring, 2015, 22, 289-300.	1.9	14
249	An exploratory study of stress wave communication in concrete structures. Smart Structures and Systems, 2015, 15, 135-150.	1.9	45
250	An anti-noise real-time cross-correlation method for bolted joint monitoring using piezoceramic transducers. Smart Structures and Systems, 2015, 16, 281-294.	1.9	13
251	Passive base isolation with superelastic nitinol SMA helical springs. Smart Materials and Structures, 2014, 23, 065009.	1.8	30
252	Stress wave communication in concrete: I. Characterization of a smart aggregate based concrete channel. Smart Materials and Structures, 2014, 23, 125030.	1.8	46

#	Article	IF	Citations
253	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
254	Compensation of hysteresis in a shape memory alloy wire system using linear parameterâ€varying gain scheduling control. IET Control Theory and Applications, 2014, 8, 1875-1885.	1.2	10
255	Sensing Methodologies and Sensor Networks for Health Monitoring of Civil Infrastructures 2013. International Journal of Distributed Sensor Networks, 2014, 10, 739807.	1.3	0
256	Wind turbine blade damage detection using an active sensing approach. Smart Materials and Structures, 2014, 23, 105005.	1.8	16
257	A new optimal sliding mode controller design using scalar sign function. ISA Transactions, 2014, 53, 267-279.	3.1	32
258	Monitoring the Soil Freeze-Thaw Process Using Piezoceramic-Based Smart Aggregate. Journal of Cold Regions Engineering - ASCE, 2014, 28, .	0.5	72
259	Structural health monitoring of wind turbine blade using piezoceremic based active sensing and impedance sensing. , 2014, , .		11
260	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
261	Development of a remote experiment under a unified remote laboratory framework. , 2014, , .		6
262	Development of a remote shape memory alloy experiment for engineering education. Engineering Education Letters, 2014, 2015, .	0.0	1
263	Very early age concrete hydration characterization monitoring using piezoceramic based smart aggregates. Smart Materials and Structures, 2013, 22, 085025.	1.8	142
264	Seismic Control of Power Transmission Tower Using Pounding TMD. Journal of Engineering Mechanics - ASCE, 2013, 139, 1395-1406.	1.6	116
265	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
266	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
267	A fiber Bragg grating sensor for detection of liquid water in concrete structures. Smart Materials and Structures, 2013, 22, 055012.	1.8	28
268	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
269	Review of Bolted Connection Monitoring. International Journal of Distributed Sensor Networks, 2013, 9, 871213.	1.3	101
270	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

#	Article	IF	Citations
271	Scour Monitoring System for Subsea Pipeline Based on Active Thermometry: Numerical and Experimental Studies. Sensors, 2013, 13, 1490-1509.	2.1	21
272	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
273	Recentering Shape Memory Alloy Passive Damper for Structural Vibration Control. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	39
274	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
275	A Constitutive Model for Superelastic Shape Memory Alloys Considering the Influence of Strain Rate. Mathematical Problems in Engineering, 2013, 2013, 1-8.	0.6	10
276	Feasibility Study on Crack Detection of Pipelines Using Piezoceramic Transducers. International Journal of Distributed Sensor Networks, 2013, 9, 631715.	1.3	24
277	FBG Sensor for Contact Level Monitoring and Prediction of Perforation in Cardiac Ablation. Sensors, 2012, 12, 1002-1013.	2.1	26
278	Experimental Study on Carbon Fiber Tapeâ€“Based Deicing Technology. Journal of Cold Regions Engineering - ASCE, 2012, 26, 55-70.	0.5	38
279	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
280	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
281	Fault detection and fault tolerant control of a smart base isolation system with magneto-rheological damper. Smart Materials and Structures, 2011, 20, 085015.	1.8	17
282	A novel compact wideband reflector antenna with reconfigurable radiation patterns. , 2011, , .		0
283	Design and Time-Domain Analysis for a Novel Pattern Reconfigurable Antenna. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 365-368.	2.4	13
284	Multifunctional nanocomposite coating for wind turbine blades. International Journal of Smart and Nano Materials, 2011, 2, 120-133.	2.0	20
285	DNN Based Fault Tolerant Control of Nonlinear Structural Vibration with Actuator Faults. Advances in Structural Engineering, 2011, 14, 871-879.	1.2	11
286	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
287	Compact Wideband Unidirectional Antenna With a Reflector Connected to the Ground Using a Stub. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1186-1189.	2.4	15
288	Smart-aggregate-based damage detection of fiber-reinforced-polymer-strengthened columns under reversed cyclic loading. Smart Materials and Structures, 2011, 20, 075014.	1.8	16

#	Article	IF	Citations
289	Parameter varying control of an MR damper for smart base isolation. , 2011, , .		3
290	Digital controller design for Boucâ€“Wen model with high-order hysteretic nonlinearities through approximated scalar sign function. International Journal of Systems Science, 2011, 42, 1581-1599.	3.7	8
291	A novel hysteresis reducing piezoceramic amplifier. , 2011, , .		0
292	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
293	A new neural network-based approach for self-tuning control of nonlinear SISO discrete-time systems. International Journal of Systems Science, 2010, 41, 1421-1435.	3.7	3
294	Hierarchical ensemble-based data fusion for structural health monitoring. Smart Materials and Structures, 2010, 19, 045009.	1.8	22
295	Smart aggregate based damage detection of circular RC columns under cyclic combined loading. Smart Materials and Structures, 2010, 19, 065021.	1.8	53
296	Concrete structural health monitoring using piezoceramic-based wireless sensor networks. Smart Structures and Systems, 2010, 6, 731-748.	1.9	42
297	Multi-Class Semi-Supervised Learning in Machine Condition Monitoring. , 2009, , .		2
298	Fuzzy semi-active control of MR damper for structural base isolation. , 2009, , .		2
299	Health monitoring of reinforced concrete shear walls using smart aggregates. Smart Materials and Structures, 2009, 18, 047001.	1.8	92
300	Adaptive fuzzy sliding mode based active vibration control of a smart beam with mass uncertainty. Structural Control and Health Monitoring, 2009, 18, n/a-n/a.	1.9	11
301	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
302	Progressive collapse of a two-story reinforced concrete frame with embedded smart aggregates. Smart Materials and Structures, 2009, 18, 075001.	1.8	75
303	An Innovative Ultradeepwater Subsea Blowout Preventer Control System Using Shape-Memory Alloy Actuators. Journal of Energy Resources Technology, Transactions of the ASME, 2008, 130, .	1.4	4
304	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
305	Investigation of Locking Force for Stay Cable Vibration Control Using Magnetorheological Fluid Damper. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.0	15
306	Smart aggregates: multi-functional sensors for concrete structuresâ€”a tutorial and a review. Smart Materials and Structures, 2008, 17, 033001.	1.8	297

#	Article	IF	Citations
307	Numerical analysis of acoustic wave propagation in layered carbon nanofiber reinforced polymer composites. Journal of Applied Physics, 2008, 104, .	1.1	6
308	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
309	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
310	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
311	Multimode vibration control of a smart model frame structure. Smart Materials and Structures, 2006, 15, 473-479.	1.8	20
312	System identification and active vibration control of a composite I-beam using smart materials. Structural Control and Health Monitoring, 2006, 13, 868-884.	1.9	10
313	STUDY OF AFFINITIES BETWEEN SINGLE-WALLED NANOTUBE AND EPOXY RESIN USING MOLECULAR DYNAMICS SIMULATION. International Journal of Nanoscience, 2006, 05, 131-144.	0.4	18
314	Studies on structural vibration control with MR dampers using Î¼GA. Earthquake Engineering and Engineering Vibration, 2005, 4, 301-304.	1.1	5
315	Application of the Piezoelectric Materials for Health Monitoring in Civil Engineering: An Overview. , 2004, , 680.		16
316	Vibration suppression of a spacecraft flexible appendage using smart material. Smart Materials and Structures, 1998, 7, 95-104.	1.8	53
317	Adaptive antenna shape control using piezoelectric actuators. Acta Astronautica, 1997, 40, 821-826.	1.7	52
318	Adaptive robust sliding-mode control of a flexible beam using PZT sensor and actuator. , 0, , .		5
319	Multimode optimal vibration control of flexible structure using piezoceramics. , 0, , .		3
320	Robust Model Reference Vibration Control of a Flexible Beam Using Piezoceramic Patches. , 0, , .		0
321	Multimodal vibration control of a flexible structure using piezoceramics. , 0, , .		3
322	Improved Seismic Control of Structure with Variable Friction Dampers by GA. , 0, , .		1