

# Qingzhao Kong

## List of Publications by Year in descending order

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230  
papers

8,933  
citations

29994

54  
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69108

77  
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230  
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230  
docs citations

230  
times ranked

3126  
citing authors

#	ARTICLE	IF	CITATIONS
1	A CNN-integrated percussion method for detection of FRP-concrete interfacial damage with FEM reconstruction. <i>Structural Health Monitoring</i> , 2023, 22, 216-231.	4.3	15
2	A novel method for steel bar all-stage pitting corrosion monitoring using the feature-level fusion of ultrasonic direct waves and coda waves. <i>Structural Health Monitoring</i> , 2023, 22, 714-729.	4.3	8
3	A novel intelligent inspection robot with deep stereo vision for three-dimensional concrete damage detection and quantification. <i>Structural Health Monitoring</i> , 2022, 21, 788-802.	4.3	28
4	An innovative deep neural network-based approach for internal cavity detection of timber columns using percussion sound. <i>Structural Health Monitoring</i> , 2022, 21, 1251-1265.	4.3	24
5	Design of a networking stress wave communication method along pipelines. <i>Mechanical Systems and Signal Processing</i> , 2022, 164, 108192.	4.4	2
6	Percussion-based bolt looseness identification using vibration-guided sound reconstruction. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2876.	1.9	22
7	Improved resistance functions for RC elements accounting for compressive and tensile membrane actions. <i>Engineering Structures</i> , 2022, 251, 113549.	2.6	2
8	Automated structural bolt looseness detection using deep learning-based prediction model. <i>Structural Control and Health Monitoring</i> , 2022, 29, e2899.	1.9	17
9	Fracture behaviors of HVFA-SCC mixed with seawater and sea-sand under three-point bending. <i>Advances in Structural Engineering</i> , 2022, 25, 716-735.	1.2	3
10	High spatial resolution imaging for damage detection in concrete based on multiple wavelet decomposition. <i>Construction and Building Materials</i> , 2022, 319, 126057.	3.2	11
11	A two-step computer vision-based framework for bolt loosening detection and its implementation on a smartphone application. <i>Structural Health Monitoring</i> , 2022, 21, 2048-2062.	4.3	7
12	Preload measurement of steel-to-timber bolted joint using piezoceramic-based electromechanical impedance method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 190, 110725.	2.5	16
13	Diffuse Ultrasonic Wave-Based Damage Detection of Railway Tracks Using PZT/FBG Hybrid Sensing System. <i>Sensors</i> , 2022, 22, 2504.	2.1	10
14	High resolution bolt pre-load looseness monitoring using coda wave interferometry. <i>Structural Health Monitoring</i> , 2022, 21, 1959-1972.	4.3	23
15	Multidirectional crack monitoring of concrete structures using 3D piezoceramic sensing array. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	1
16	1D-TICapsNet: An audio signal processing algorithm for bolt early looseness detection. <i>Structural Health Monitoring</i> , 2021, 20, 2828-2839.	4.3	25
17	If structure can exclaim: a novel robotic-assisted percussion method for spatial bolt-ball joint looseness detection. <i>Structural Health Monitoring</i> , 2021, 20, 1597-1608.	4.3	31
18	Time reversal damage localization in concrete based on two-dimensional meso-scale modeling. <i>Structural Health Monitoring</i> , 2021, 20, 188-201.	4.3	10

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19	A power waveform design based on OVFSF-PPM for stress wave based wireless power transfer. Mechanical Systems and Signal Processing, 2021, 147, 107111.	4.4	3
20	Shear loading detection of through bolts in bridge structures using a percussion-based one-dimensional memory-augmented convolutional neural network. Computer-Aided Civil and Infrastructure Engineering, 2021, 36, 289-301.	6.3	43
21	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
22	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
23	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
24	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
25	Monitoring of viscous damper fluid viscosity using piezoceramic transducers—a feasibility study. Smart Materials and Structures, 2021, 30, 025034.	1.8	5
26	Timber moisture detection using wavelet packet decomposition and convolutional neural network. Smart Materials and Structures, 2021, 30, 035022.	1.8	27
27	Near real-time bolt loosening detection using mask and region-based convolutional neural network. Structural Control and Health Monitoring, 2021, 28, e2741.	1.9	26
28	Experimental and theoretical study on mechanical properties of steel-concrete double-sided composite cantilever beams. Structures, 2021, 30, 100-114.	1.7	2
29	Efficient Bayesian model class selection of vector autoregressive models for system identification. Structural Control and Health Monitoring, 2021, 28, e2780.	1.9	5
30	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
31	Reverberating Stress Wave Channel Capacity in Pipe Communications. , 2021, , .		0
32	A Novel Piezoceramic-Based Sensing Technology Combined With Visual Domain Networks for Timber Damage Quantification. Frontiers in Materials, 2021, 8, .	1.2	5
33	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
34	Mechanical properties and engineering application of single-span steel-concrete double-sided composite beams. Journal of Building Engineering, 2021, 40, 102644.	1.6	6
35	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
36	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

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37	A Low Complexity Aggregation Method for Underwater On-Pipe Sensor Network. , 2021, , .		0
38	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
39	Inspection and monitoring systems subsea pipelines: A review paper. Structural Health Monitoring, 2020, 19, 606-645.	4.3	109
40	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
41	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
42	A nonlinear ultrasonic method for real-time bolt looseness monitoring using PZT transducer-enabled vibro-acoustic modulation. Journal of Intelligent Material Systems and Structures, 2020, 31, 364-376.	1.4	42
43	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
44	Monitoring early-age hydration and setting of portland cement paste by piezoelectric transducers via electromechanical impedance method. Construction and Building Materials, 2020, 258, 120348.	3.2	42
45	An experimental study on a high-efficient multifunctional U-shaped piezoelectric coupled beam. Energy Conversion and Management, 2020, 224, 113330.	4.4	19
46	Percussion-based Detection of Bolt Looseness Using Speech Recognition Technology and Least Square Support Vector Machine. , 2020, , .		2
47	A new acoustic emission damage localization method using synchrosqueezed wavelet transforms picker and time-order method. Structural Health Monitoring, 2020, , 147592172097704.	4.3	8
48	Passive Seismic Protection of Building Piping Systems A Review. International Journal of Structural Stability and Dynamics, 2020, 20, 2030001.	1.5	10
49	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
50	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
51	Looseness detection in cup-lock scaffolds using percussion-based method. Automation in Construction, 2020, 118, 103266.	4.8	29
52	Monitoring of Grouting Compactness in Tendon Duct Using Multi-Sensing Electro-Mechanical Impedance Method. Applied Sciences (Switzerland), 2020, 10, 2018.	1.3	8
53	Editorial for Special Issue "Energy Dissipation and Vibration Control: Materials, Modeling, Algorithm, and Devices" Applied Sciences (Switzerland), 2020, 10, 572.	1.3	1
54	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

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55	Uniaxial Compressive Behavior of Concrete Columns Confined with Superelastic Shape Memory Alloy Wires. <i>Materials</i> , 2020, 13, 1227.	1.3	20
56	A New Approach to Identifying Crash Hotspot Intersections (CHIs) Using Spatial Weights Matrices. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1625.	1.3	4
57	Detection of subsurface voids in concrete-filled steel tubular (CFST) structure using percussion approach. <i>Construction and Building Materials</i> , 2020, 262, 119761.	3.2	42
58	Interfacial debonding detection in externally bonded bfrp reinforced concrete using stress wave-based sensing approach. <i>Smart Materials and Structures</i> , 2020, 29, 035039.	1.8	26
59	Monitoring of bolt looseness using piezoelectric transducers: Three-dimensional numerical modeling with experimental verification. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 911-918.	1.4	25
60	Design of a new low-cost unmanned aerial vehicle and vision-based concrete crack inspection method. <i>Structural Health Monitoring</i> , 2020, 19, 1871-1883.	4.3	36
61	Identification of bond behavior between FRP/steel bars and self-compacting concrete using piezoceramic transducers based on wavelet energy analysis. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	1.9	15
62	Detection of Surface Breaking Cracks Filled With Solid Impurities Using a Baseline-Free NEWS-TR Method. <i>IEEE Access</i> , 2020, 8, 56908-56920.	2.6	4
63	Effects of pre-fatigue damage on mechanical properties of Q690 high-strength steel. <i>Construction and Building Materials</i> , 2020, 252, 118845.	3.2	33
64	Bolt-looseness detection by a new percussion-based method using multifractal analysis and gradient boosting decision tree. <i>Structural Health Monitoring</i> , 2020, 19, 2023-2032.	4.3	45
65	Real-time monitoring stiffness degradation of hardened cement paste under uniaxial compression loading through piezoceramic-based electromechanical impedance method. <i>Construction and Building Materials</i> , 2020, 256, 119395.	3.2	30
66	Depth detection of subsurface voids in concrete-filled steel tubular (CFST) structure using percussion and decision tree. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 163, 107869.	2.5	32
67	Feasibility study of a touch-enabled active sensing approach to inspecting subsea bolted connections using piezoceramic transducers. <i>Smart Materials and Structures</i> , 2020, 29, 085038.	1.8	17
68	A novel OFDR-based distributed optical fiber sensing tape: design, optimization, calibration and application. <i>Smart Materials and Structures</i> , 2020, 29, 105017.	1.8	11
69	Detection of sand deposition in pipeline using percussion, voice recognition, and support vector machine. <i>Structural Health Monitoring</i> , 2020, 19, 2075-2090.	4.3	25
70	Heat-induced drift reduction of time of flight in fused quartz acoustic waveguides via annealing process. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 3372-3377.	0.5	0
71	Percussion-based bolt looseness monitoring using intrinsic multiscale entropy analysis and BP neural network. <i>Smart Materials and Structures</i> , 2019, 28, 125001.	1.8	81
72	Modeling and analysis of an impact-acoustic method for bolt looseness identification. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106249.	4.4	72

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73	Monitoring of early looseness of multi-bolt connection: a new entropy-based active sensing method without saturation. <i>Smart Materials and Structures</i> , 2019, 28, 10LT01.	1.8	51
74	Monitor concrete moisture level using percussion and machine learning. <i>Construction and Building Materials</i> , 2019, 229, 117077.	3.2	36
75	Emerging Construction Materials and Sustainable Infrastructure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4127.	1.3	3
76	A study on a near-shore cantilevered sea wave energy harvester with a variable cross section. <i>Energy Science and Engineering</i> , 2019, 7, 3174-3185.	1.9	15
77	Structural Damage Detection and Health Monitoring. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4027.	1.3	2
78	Fully integrated fused quartz acoustic horns for structural health monitoring. <i>Journal of the Acoustical Society of America</i> , 2019, 146, EL293-EL298.	0.5	0
79	Identification of the structural damage mechanism of BFRP bars reinforced concrete beams using smart transducers based on time reversal method. <i>Construction and Building Materials</i> , 2019, 220, 615-627.	3.2	53
80	Bolt early looseness monitoring using modified vibro-acoustic modulation by time-reversal. <i>Mechanical Systems and Signal Processing</i> , 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. <i>Smart Materials and Structures</i> , 2019, 28, 075033.	1.8	30
82	PZT transducer array enabled pipeline defect locating based on time-reversal method and matching pursuit de-noising. <i>Smart Materials and Structures</i> , 2019, 28, 075019.	1.8	42
83	Design of a New Stress Wave-Based Pulse Position Modulation (PPM) Communication System with Piezoceramic Transducers. <i>Sensors</i> , 2019, 19, 558.	2.1	43
84	Vibration Suppression of Wind/Traffic/Bridge Coupled System Using Multiple Pounding Tuned Mass Dampers (MPTMD). <i>Sensors</i> , 2019, 19, 1133.	2.1	49
85	Bond-Slip Monitoring of Concrete Structures Using Smart Sensors—A Review. <i>Sensors</i> , 2019, 19, 1231.	2.1	67
86	Modeling, simulation, and validation of a pendulum-pounding tuned mass damper for vibration control. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2326.	1.9	50
87	Identify Road Clusters with High-Frequency Crashes Using Spatial Data Mining Approach. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5282.	1.3	5
88	Real-Time Monitoring of Early-Age Concrete Strength Using Piezoceramic-Based Smart Aggregates. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	0.8	35
89	Investigation of Bonding Behavior of FRP and Steel Bars in Self-Compacting Concrete Structures Using Acoustic Emission Method. <i>Sensors</i> , 2019, 19, 159.	2.1	56
90	Analytical study of influence of boundary conditions on acoustic power transfer through an elastic barrier. <i>Smart Materials and Structures</i> , 2019, 28, 025004.	1.8	13

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91	Real-Time Monitoring of Soil Compaction Using Piezoceramic-Based Embeddable Transducers and Wavelet Packet Analysis. <i>IEEE Access</i> , 2018, 6, 5208-5214.	2.6	28
92	Grout compactness monitoring of concrete-filled fiber-reinforced polymer tube using electromechanical impedance. <i>Smart Materials and Structures</i> , 2018, 27, 055008.	1.8	29
93	Monitoring of pin connection loosening using eletromechanical impedance: Numerical simulation with experimental verification. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1964-1973.	1.4	37
94	Smart concrete slabs with embedded tubular PZT transducers for damage detection. <i>Smart Materials and Structures</i> , 2018, 27, 025002.	1.8	23
95	Connection looseness detection of steel grid structures using piezoceramic transducers. <i>International Journal of Distributed Sensor Networks</i> , 2018, 14, 155014771875923.	1.3	5
96	A Novel Waveform Optimization Scheme for Piezoelectric Sensors Wire-Free Charging in the Tightly Insulated Environment. <i>IEEE Internet of Things Journal</i> , 2018, 5, 1936-1946.	5.5	21
97	A smart "shear sensing" bolt based on FBG sensors. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 240-246.	2.5	50
98	Interfacial debonding detection in fiber-reinforced polymer rebar-reinforced concrete using electro-mechanical impedance technique. <i>Structural Health Monitoring</i> , 2018, 17, 461-471.	4.3	85
99	An automatic extraction algorithm for measurement of installed rock bolt length based on stress wave reflection. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 563-572.	2.5	13
100	A feasibility study on real-time evaluation of concrete surface crack repairing using embedded piezoceramic transducers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 591-596.	2.5	23
101	Quantitative evaluation of compactness of concrete-filled fiber-reinforced polymer tubes using piezoceramic transducers and time difference of arrival. <i>Smart Materials and Structures</i> , 2018, 27, 035023.	1.8	23
102	A piezoelectric active sensing method for quantitative monitoring of bolt loosening using energy dissipation caused by tangential damping based on the fractal contact theory. <i>Smart Materials and Structures</i> , 2018, 27, 015023.	1.8	111
103	Load monitoring of the pin-connected structure based on wavelet packet analysis using piezoceramic transducers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 638-647.	2.5	19
104	Pipeline Damage Detection Using Piezoceramic Transducers: Numerical Analyses with Experimental Validation. <i>Sensors</i> , 2018, 18, 2106.	2.1	18
105	Local Bond-Slip Monitoring in a Steel Plate-Ultra High Performance Concrete (S-UHPC) Beam Using Smart Aggregates. , 2018, , .		5
106	Monitoring Fatigue Damage of Modular Bridge Expansion Joints Using Piezoceramic Transducers. <i>Sensors</i> , 2018, 18, 3973.	2.1	36
107	Piezoceramic Smart Washer Enabled Bolt Pre-Load Monitoring Using Impedance Method. , 2018, , .		0
108	Detection of High-Strength Bolts Looseness Using Lead Zirconate Titanate Due to Wavelet Packet Analysis. , 2018, , .		2



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109	Feasibility Study of Real-Time Monitoring of Pin Connection Wear Using Acoustic Emission. Applied Sciences (Switzerland), 2018, 8, 1775.	1.3	9
110	Structure Damage Identification Based on Regularized ARMA Time Series Model under Environmental Excitation. Vibration, 2018, 1, 138-156.	0.9	8
111	Damage Evaluation of Concrete Column under Impact Load Using a Piezoelectric-Based EMI Technique. Sensors, 2018, 18, 1591.	2.1	60
112	Enhancing the Visibility of Delamination during Pulsed Thermography of Carbon Fiber-Reinforced Plates Using a Stacked Autoencoder. Sensors, 2018, 18, 2809.	2.1	20
113	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
114	Wear Degree Quantification of Pin Connections Using Parameter-Based Analyses of Acoustic Emissions. Sensors, 2018, 18, 3503.	2.1	4
115	Monitoring of Bolt Looseness-Induced Damage in Steel Truss Arch Structure Using Piezoceramic Transducers. IEEE Sensors Journal, 2018, 18, 6677-6685.	2.4	36
116	A Theoretical Model for Designing the Novel Embeddable Spherical Smart Aggregate. IEEE Access, 2018, 6, 48403-48417.	2.6	11
117	Damage Detection of Refractory Based on Principle Component Analysis and Gaussian Mixture Model. Complexity, 2018, 2018, 1-9.	0.9	4
118	Detecting Damage Size and Shape in a Plate Structure Using PZT Transducer Array. Journal of Aerospace Engineering, 2018, 31, .	0.8	47
119	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
120	Feasibility Study of Interlayer Slide Monitoring Using Postembedded Piezoceramic Smart Aggregates. Journal of Sensors, 2018, 2018, 1-10.	0.6	11
121	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
122	Structural Stress Monitoring Based on Piezoelectric Impedance Frequency Shift. Journal of Aerospace Engineering, 2018, 31, .	0.8	29
123	Vibration Reduction of an Existing Glass Window through a Viscoelastic Material-Based Retrofit. Applied Sciences (Switzerland), 2018, 8, 1061.	1.3	14
124	Health Degradation Monitoring and Early Fault Diagnosis of a Rolling Bearing Based on CEEMDAN and Improved MMSE. Materials, 2018, 11, 1009.	1.3	66
125	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
126	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



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127	Influence of Axial Load on Electromechanical Impedance (EMI) of Embedded Piezoceramic Transducers in Steel Fiber Concrete. <i>Sensors</i> , 2018, 18, 1782.	2.1	28
128	A Novel Fractal Contact-Electromechanical Impedance Model for Quantitative Monitoring of Bolted Joint Looseness. <i>IEEE Access</i> , 2018, 6, 40212-40220.	2.6	129
129	Study of Impact Damage in PVA-ECC Beam under Low-Velocity Impact Loading Using Piezoceramic Transducers and PVDF Thin-Film Transducers. <i>Sensors</i> , 2018, 18, 671.	2.1	37
130	Damage Detection of a Concrete Column Subject to Blast Loads Using Embedded Piezoceramic Transducers. <i>Sensors</i> , 2018, 18, 1377.	2.1	63
131	Development of a Novel Guided Wave Generation System Using a Giant Magnetostrictive Actuator for Nondestructive Evaluation. <i>Sensors</i> , 2018, 18, 779.	2.1	20
132	Evaluation of the Effect of Fly Ash on Hydration Characterization in Self-Compacting Concrete (SCC) at Very Early Ages Using Piezoceramic Transducers. <i>Sensors</i> , 2018, 18, 2489.	2.1	21
133	Pipeline two-dimensional impact location determination using time of arrival with instant phase (TOAIP) with piezoceramic transducer array. <i>Smart Materials and Structures</i> , 2018, 27, 105003.	1.8	20
134	Tapping and listening: a new approach to bolt looseness monitoring. <i>Smart Materials and Structures</i> , 2018, 27, 07LT02.	1.8	102
135	New Crack Detection Method for Bridge Inspection Using UAV Incorporating Image Processing. <i>Journal of Aerospace Engineering</i> , 2018, 31, .	0.8	88
136	Grouting monitoring of post-tensioning tendon duct using PZT enabled time-reversal method. Measurement: <i>Journal of the International Measurement Confederation</i> , 2018, 122, 513-521.	2.5	19
137	A Comparative Study of the Very Early Age Cement Hydration Monitoring Using Compressive and Shear Mode Smart Aggregates. <i>IEEE Sensors Journal</i> , 2017, 17, 256-260.	2.4	62
138	Detection of Debonding Between Fiber Reinforced Polymer Bar and Concrete Structure Using Piezoceramic Transducers and Wavelet Packet Analysis. <i>IEEE Sensors Journal</i> , 2017, 17, 1992-1998.	2.4	96
139	Smart washer—a piezoceramic-based transducer to monitor looseness of bolted connection. <i>Smart Materials and Structures</i> , 2017, 26, 025033.	1.8	66
140	Real time monitoring of spot-welded joints under service load using lead zirconate titanate (PZT) transducers. <i>Smart Materials and Structures</i> , 2017, 26, 035059.	1.8	8
141	Gas pipeline leakage detection based on PZT sensors. <i>Smart Materials and Structures</i> , 2017, 26, 025022.	1.8	74
142	Embedded piezoelectric lead-zirconate-titanate-based dynamic internal normal stress sensor for concrete under impact. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2659-2674.	1.4	19
143	Impedance based bolt pre-load monitoring using piezoceramic smart washer. <i>Smart Materials and Structures</i> , 2017, 26, 057004.	1.8	82
144	Wireless energy harvesting using time reversal technique: An experimental study with numerical verification. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 2705-2716.	1.4	16

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145	A load measuring anchor plate for rock bolt using fiber optic sensor. Smart Materials and Structures, 2017, 26, 057003.	1.8	40
146	Estimation of impact location on concrete column. Smart Materials and Structures, 2017, 26, 055037.	1.8	26
147	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
148	Interlayer Slide Detection Using Piezoceramic Smart Aggregates Based on Active Sensing Approach. IEEE Sensors Journal, 2017, 17, 6160-6166.	2.4	24
149	Identification of the impact direction using the beat signals detected by piezoceramic sensors. Smart Materials and Structures, 2017, 26, 085020.	1.8	14
150	A fractal contact theory based model for bolted connection looseness monitoring using piezoceramic transducers. Smart Materials and Structures, 2017, 26, 104010.	1.8	76
151	Monitoring of Corrosion-Induced Degradation in Prestressed Concrete Structure Using Embedded Piezoceramic-Based Transducers. IEEE Sensors Journal, 2017, 17, 5823-5830.	2.4	39
152	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
153	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
154	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
155	Multiple Cracks Detection in Pipeline Using Damage Index Matrix Based on Piezoceramic Transducer-Enabled Stress Wave Propagation. Sensors, 2017, 17, 1812.	2.1	66
156	Monitoring Concrete Deterioration Due to Reinforcement Corrosion by Integrating Acoustic Emission and FBG Strain Measurements. Sensors, 2017, 17, 657.	2.1	114
157	A Review of Rock Bolt Monitoring Using Smart Sensors. Sensors, 2017, 17, 776.	2.1	98
158	Development and Application of a Structural Health Monitoring System Based on Wireless Smart Aggregates. Sensors, 2017, 17, 1641.	2.1	65
159	Experimental Study on Stress Monitoring of Sand-Filled Steel Tube during Impact Using Piezoceramic Smart Aggregates. Sensors, 2017, 17, 1930.	2.1	33
160	Detection of Interfacial Debonding in a Rubber-Steel-Layered Structure Using Active Sensing Enabled by Embedded Piezoceramic Transducers. Sensors, 2017, 17, 2001.	2.1	35
161	Finite Element Analysis of Grouting Compactness Monitoring in a Post-Tensioning Tendon Duct Using Piezoceramic Transducers. Sensors, 2017, 17, 2239.	2.1	24
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