

Filippo Ubertini

List of Publications by Year in descending order

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Version: 2024-02-01

188
papers

4,875
citations

87888

38
h-index

118850

62
g-index

199
all docs

199
docs citations

199
times ranked

2729
citing authors

#	ARTICLE	IF	CITATIONS
1	Fatigue reliability assessment and life-cycle cost analysis of roadway bridges equipped with weigh-in-motion systems. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 1317-1333.	3.7	2
2	A method for structural monitoring of multispan bridges using satellite InSAR data with uncertainty quantification and its pre-collapse application to the Albiano-Magra Bridge in Italy. <i>Structural Health Monitoring</i> , 2023, 22, 353-371.	7.5	17
3	Bayesian-Based Fusion of Monitoring Data and Visual Inspections in Monumental Structures. <i>Lecture Notes in Civil Engineering</i> , 2023, , 1066-1075.	0.4	1
4	Deep Autoencoders for Unsupervised Damage Detection with Application to the Z24 Benchmark Bridge. <i>Lecture Notes in Civil Engineering</i> , 2023, , 1048-1057.	0.4	3
5	Life-cycle management cost analysis of transportation bridges equipped with seismic structural health monitoring systems. <i>Structural Health Monitoring</i> , 2022, 21, 100-117.	7.5	18
6	Integrated SHM Systems: Damage Detection Through Unsupervised Learning and Data Fusion. <i>Structural Integrity</i> , 2022, , 247-268.	1.4	7
7	Risk-Informed Design Optimization of Vertically Distributed Tuned Liquid Wall Dampers for Multihazard Mitigation. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	4
8	Smart Infrastructure Monitoring through Self-Sensing Composite Sensors and Systems: A Study on Smart Concrete Sensors with Varying Carbon-Based Filler. <i>Infrastructures</i> , 2022, 7, 48.	2.8	10
9	Least Angle Regression for early-stage identification of earthquake-induced damage in a monumental masonry palace: Palazzo dei Consoli. <i>Engineering Structures</i> , 2022, 259, 114119.	5.3	11
10	Fragility Analysis of Monitored Reinforced Concrete Bridges Subjected to Cumulative Effect of Seismic Damage and Corrosion Deterioration. <i>Lecture Notes in Civil Engineering</i> , 2022, , 418-427.	0.4	0
11	Strain-sensing smart bricks under dynamic environmental conditions: Experimental investigation and new modeling. <i>Construction and Building Materials</i> , 2022, 336, 127375.	7.2	4
12	Self-sensing asphalt composite with carbon microfibers for smart weigh-in-motion. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	3.1	10
13	Field investigation of novel self-sensing asphalt pavement for weigh-in-motion sensing. <i>Smart Materials and Structures</i> , 2022, 31, 085004.	3.5	6
14	Monitoring-Informed Life-Cycle Cost Analysis of Deteriorating RC Bridges under Repeated Earthquake Loading. <i>Journal of Structural Engineering</i> , 2022, 148, .	3.4	7
15	Improved strain sensing properties of cement-based sensors through enhanced carbon nanotube dispersion. <i>Cement and Concrete Composites</i> , 2021, 115, 103842.	10.7	36
16	An Innovative Methodology for Online Surrogate-Based Model Updating of Historic Buildings Using Monitoring Data. <i>International Journal of Architectural Heritage</i> , 2021, 15, 92-112.	3.1	37
17	Novel Structural Health Monitoring Software Systems Exploiting Heterogeneous Sensing Solutions and Data Fusion for Enhanced Local/Global Damage Identification of Historic Structures. <i>Lecture Notes in Civil Engineering</i> , 2021, , 927-936.	0.4	0
18	ROC analysis-based optimal design of a spatio-temporal online seismic monitoring system for precast industrial buildings. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 1441-1466.	4.1	7

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19	Hybrid Carbon Microfibers-Graphite Fillers for Piezoresistive Cementitious Composites. <i>Sensors</i> , 2021, 21, 518.	3.8	29
20	Advanced Monitoring of Structures and Infrastructures Through Smart Composite Sensors and Systems. <i>Lecture Notes in Civil Engineering</i> , 2021, , 485-498.	0.4	2
21	Structural Health Monitoring of Architectural Heritage: From the past to the Future Advances. <i>International Journal of Architectural Heritage</i> , 2021, 15, 1-4.	3.1	15
22	Remote Sensing and In-Situ Measurements for the Structural Monitoring of Historical Monuments: The Consoli Palace of Gubbio, Italy. <i>Lecture Notes in Civil Engineering</i> , 2021, , 119-128.	0.4	1
23	Graphite-Cement Composites as Low-Cost Strain Sensing Multifunctional Materials. <i>Lecture Notes in Civil Engineering</i> , 2021, , 861-869.	0.4	1
24	Effect of Bottom Geometry on the Natural Sloshing Motion of Water inside Tanks: An Experimental Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 605.	2.5	8
25	Bayesian-Based Damage Assessment of Historical Structures Using Vibration Monitoring Data. <i>Lecture Notes in Civil Engineering</i> , 2021, , 415-429.	0.4	3
26	Recent Advances and Open Issues on the Use of Smart Bricks for Seismic Monitoring of Masonry Buildings: Experimental Tests and Numerical Simulations. <i>Lecture Notes in Civil Engineering</i> , 2021, , 851-860.	0.4	1
27	Numerical Investigation and Design of Reinforced Concrete Shear Wall Equipped with Tuned Liquid Multiple Columns Dampers. <i>Shock and Vibration</i> , 2021, 2021, 1-19.	0.6	5
28	Thermo-acoustic and mechanical characterization of novel bio-based plasters: The valorisation of lignin as by-product from biomass extraction for green building applications. <i>Construction and Building Materials</i> , 2021, 278, 122373.	7.2	15
29	Innovative Carbon-Doped Composite Pavements with Sensing Capability and Low Environmental Impact for Multifunctional Infrastructures. <i>Journal of Composites Science</i> , 2021, 5, 192.	3.0	7
30	A new method for earthquake-induced damage identification in historic masonry towers combining OMA and IDA. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 5307-5337.	4.1	24
31	A Multichannel Strain Measurement Technique for Nanomodified Smart Cement-Based Sensors in Reinforced Concrete Structures. <i>Sensors</i> , 2021, 21, 5633.	3.8	22
32	Structural assessment of bridges through ambient noise deconvolution interferometry: application to the lateral dynamic behaviour of a RC multi-span viaduct. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	1
33	Thermal and mechanical performance of cement paste under high temperature thermal cycles. <i>Solar Energy Materials and Solar Cells</i> , 2021, 231, 111333.	6.2	11
34	Enhanced energy dissipation through 3D printed bottom geometry in Tuned Sloshing Dampers. <i>Journal of Fluids and Structures</i> , 2021, 106, 103377.	3.4	14
35	The use of receiver operating characteristic curves and precision-versus-recall curves as performance metrics in unsupervised structural damage classification under changing environment. <i>Engineering Structures</i> , 2021, 246, 113029.	5.3	23
36	A transfer Bayesian learning methodology for structural health monitoring of monumental structures. <i>Engineering Structures</i> , 2021, 247, 113089.	5.3	20

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37	Life-cycle cost analysis of bridges subjected to fatigue damage. <i>Journal of Infrastructure Preservation and Resilience</i> , 2021, 2, .	3.2	4
38	The role of seismic hazard modeling on the simplified structural assessment of an existing concrete gravity dam. <i>Structures</i> , 2021, 34, 4560-4573.	3.6	3
39	On the Combined Use of Ground Penetrating Radar and Crack Meter Sensors for Structural Monitoring: Application to the Historical Consoli Palace in Gubbio, Italy. <i>Surveys in Geophysics</i> , 2020, 41, 647-667.	4.6	16
40	Vibration-based damage localization and quantification in a pretensioned concrete girder using stochastic subspace identification and particle swarm model updating. <i>Structural Health Monitoring</i> , 2020, 19, 587-605.	7.5	51
41	Synergistic application of operational modal analysis and ambient noise deconvolution interferometry for structural and damage identification in historic masonry structures: three case studies of Italian architectural heritage. <i>Structural Health Monitoring</i> , 2020, 19, 1250-1272.	7.5	11
42	Earthquake-induced damage localization in an historic masonry tower through long-term dynamic monitoring and FE model calibration. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 2247-2274.	4.1	42
43	Refined Rigid Block Model for In-Plane Loaded Masonry. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-13.	0.7	6
44	Metamodel-based pattern recognition approach for real-time identification of earthquake-induced damage in historic masonry structures. <i>Automation in Construction</i> , 2020, 120, 103389.	9.8	23
45	Development and validation of a nonlinear dynamic model for tuned liquid multiple columns dampers. <i>Journal of Sound and Vibration</i> , 2020, 487, 115624.	3.9	21
46	Smart Graphite-Cement Composite for Roadway-Integrated Weigh-In-Motion Sensing. <i>Sensors</i> , 2020, 20, 4518.	3.8	29
47	Self-Sensing Properties of Green Alkali-Activated Binders with Carbon-Based Nano-inclusions. <i>Sustainability</i> , 2020, 12, 9916.	3.2	22
48	Automated operational modal analysis and ambient noise deconvolution interferometry for the full structural identification of historic towers: A case study of the Sciri Tower in Perugia, Italy. <i>Engineering Structures</i> , 2020, 215, 110615.	5.3	22
49	UAV photogrammetry, infrared thermography and GPR for enhancing structural and material degradation evaluation of the Roman masonry bridge of Ponte Lucano in Italy. <i>NDT and E International</i> , 2020, 115, 102287.	3.7	46
50	A multidisciplinary approach to the mortars characterization from the Town Walls of Gubbio (Perugia, Italy). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 1721-1737.	3.6	9
51	Rapid post-earthquake damage localization and quantification in masonry structures through multidimensional non-linear seismic IDA. <i>Engineering Structures</i> , 2020, 219, 110841.	5.3	41
52	A Weigh-in-Motion Characterization Algorithm for Smart Pavements Based on Conductive Cementitious Materials. <i>Sensors</i> , 2020, 20, 659.	3.8	27
53	Mathematical modeling and simulation. , 2020, , 101-156.		3
54	An innovative continuous Bayesian model updating method for base-isolated RC buildings using vibration monitoring data. <i>Mechanical Systems and Signal Processing</i> , 2020, 139, 106600.	8.0	23

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55	Characterization of the strain-sensing behavior of smart bricks: A new theoretical model and its application for monitoring of masonry structural elements. <i>Construction and Building Materials</i> , 2020, 250, 118907.	7.2	17
56	MOVA/MOSS: Two integrated software solutions for comprehensive Structural Health Monitoring of structures. <i>Mechanical Systems and Signal Processing</i> , 2020, 143, 106830.	8.0	53
57	Four years of structural health monitoring of the San Pietro bell tower in Perugia, Italy: two years before the earthquake versus two years after. <i>International Journal of Masonry Research and Innovation</i> , 2020, 5, 445.	0.4	25
58	FULL SCALE DYNAMIC TESTING OF WALL PANEL CONNECTIONS FOR PRECAST INDUSTRIAL BUILDINGS. , 2020, , .		0
59	Self-Sensing Materials for Nondestructive Evaluation. <i>Materials Evaluation</i> , 2020, 78, 526-536.	0.2	2
60	Use of Styrene Ethylene Butylene Styrene for Accelerated Percolation in Composite Cement-Based Sensors Filled with Carbon Black. , 2020, , 49-66.		1
61	STATISTICAL PROCESS CONTROL PROCEDURES FOR ONLINE DAMAGE DETECTION OF A MONUMENTAL MASONRY PALACE: THE CONSOLI PALACE IN GUBBIO, ITALY. , 2020, , .		1
62	Four years of Structural Health Monitoring of the San Pietro Bell Tower in Perugia, Italy: two years before the earthquake versus two years after. <i>International Journal of Masonry Research and Innovation</i> , 2020, 5, 1.	0.4	0
63	SEISMIC STRUCTURAL HEALTH MONITORING FOR REDUCING LIFE CYCLE COST OF ROAD BRIDGES. , 2020, , .		3
64	ENHANCED CONTINUOUS DYNAMIC MONITORING OF A COMPLEX MONUMENTAL PALACE THROUGH A LARGER SENSOR NETWORK. , 2020, , .		2
65	Perspectives and Challenges of Nanocomposites. , 2020, , 393-394.		0
66	Seismic interferometry for earthquake-induced damage identification in historic masonry towers. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 380-404.	8.0	16
67	Automated Operational Modal Analysis and Its Applications in Structural Health Monitoring. <i>Shock and Vibration</i> , 2019, 2019, 1-3.	0.6	3
68	Satellite radar interferometry and in-situ measurements for static monitoring of historical monuments: The case of Gubbio, Italy. <i>Remote Sensing of Environment</i> , 2019, 235, 111453.	11.0	42
69	Hierarchical environmental risk mapping of material degradation in historic masonry buildings: An integrated approach considering climate change and structural damage. <i>Construction and Building Materials</i> , 2019, 215, 998-1014.	7.2	52
70	Durability and weatherability of a styrene-ethylene-butylene-styrene (SEBS) block copolymer-based sensing skin for civil infrastructure applications. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 269-280.	4.1	11
71	Concrete Crack Detection and Monitoring Using a Capacitive Dense Sensor Array. <i>Sensors</i> , 2019, 19, 1843.	3.8	45
72	An Automated Procedure for Assessing Local Reliability Index and Life-Cycle Cost of Alternative Girder Bridge Design Solutions. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-17.	0.7	7

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73	Shaking table tests on a masonry building monitored using smart bricks: Damage detection and localization. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 910-928.	4.4	30
74	Earthquake-induced damage detection and localization in masonry structures using smart bricks and Kriging strain reconstruction: A numerical study. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 548-569.	4.4	27
75	Temperature effects on static and dynamic behavior of Consoli Palace in Gubbio, Italy. <i>Mechanical Systems and Signal Processing</i> , 2019, 120, 180-202.	8.0	97
76	SEISMIC BEHAVIOUR OF ISOLATE AND AGGREGATE MASONRY TOWERS: THE CASE STUDY OF THE SCIRI TOWER IN PERUGIA. , 2019, , .		2
77	APPLICATIONS OF SMART BRICKS FOR STRAIN FIELD RECONSTRUCTION IN MASONRY WALLS: NUMERICAL ANALYSIS AND SHAKING TABLE TESTS. , 2019, , .		0
78	EARTHQUAKE-INDUCED DAMAGE LOCALIZATION THROUGH NON-LINEAR DYNAMIC ANALYSIS. , 2019, , .		0
79	SURROGATE MODELS FOR EARTHQUAKE-INDUCED DAMAGE DETECTION AND LOCALIZATION IN HISTORIC STRUCTURES USING LONG-TERM DYNAMIC MONITORING DATA: APPLICATION TO A MASONRY DOME. , 2019, , .		1
80	VIBRATION-BASED CONTINUOUS MONITORING FOR POST-EARTHQUAKE DAMAGE DIAGNOSIS OF PRECAST REINFORCED CONCRETE BUILDINGS. , 2019, , .		0
81	Two-step hierarchical micromechanics model of partially saturated porous composites doped with ellipsoidal particles with interface effects. <i>Composites Part B: Engineering</i> , 2018, 148, 49-60.	12.0	16
82	Innovative Structural Concretes with Phase Change Materials for Sustainable Constructions: Mechanical and Thermal Characterization. <i>Lecture Notes in Civil Engineering</i> , 2018, , 172-183.	0.4	0
83	Multifunctional smart concretes with novel phase change materials: Mechanical and thermo-energy investigation. <i>Applied Energy</i> , 2018, 212, 1448-1461.	10.1	107
84	Automated crack detection in conductive smart-concrete structures using a resistor mesh model. <i>Measurement Science and Technology</i> , 2018, 29, 035107.	2.6	35
85	Assessment of a monumental masonry bell-tower after 2016 Central Italy seismic sequence by long-term SHM. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 775-801.	4.1	116
86	Earthquake-Induced Damage Detection in a Monumental Masonry Bell-Tower Using Long-Term Dynamic Monitoring Data. <i>Journal of Earthquake Engineering</i> , 2018, 22, 96-119.	2.5	62
87	Stainless Steel Microfibers for Strain-Sensing Smart Clay Bricks. <i>Journal of Sensors</i> , 2018, 2018, 1-8.	1.1	11
88	Crack detection and localization in RC beams through smart MWCNT/epoxy strip-like strain sensors. <i>Smart Materials and Structures</i> , 2018, 27, 115022.	3.5	21
89	Experimental analysis on slamming reduction in rectangular liquid tanks subjected to harmonic motion. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
90	Concrete with self-sensing properties. , 2018, , 501-530.		8

#	ARTICLE	IF	CITATIONS
91	Recent Advances on SHM of Reinforced Concrete and Masonry Structures Enabled by Self-Sensing Structural Materials. Proceedings (mdpi), 2018, 2, 119.	0.2	6
92	Effect of PCM on the Hydration Process of Cement-Based Mixtures: A Novel Thermo-Mechanical Investigation. Materials, 2018, 11, 871.	2.9	18
93	An Experimental Study on Static and Dynamic Strain Sensitivity of Embeddable Smart Concrete Sensors Doped with Carbon Nanotubes for SHM of Large Structures. Sensors, 2018, 18, 831.	3.8	71
94	3D mixed micromechanics-FEM modeling of piezoresistive carbon nanotube smart concrete. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 396-423.	6.6	52
95	Smart bricks for strain sensing and crack detection in masonry structures. Smart Materials and Structures, 2018, 27, 015009.	3.5	44
96	Durability assessment of soft elastomeric capacitor skin for SHM of wind turbine blades. , 2018, , .		2
97	Crack detection in RC structural components using a collaborative data fusion approach based on smart concrete and large-area sensors. , 2018, , .		2
98	Strain monitoring in masonry structures using smart bricks. , 2018, , .		3
99	Surrogate model for condition assessment of structures using a dense sensor network. , 2018, , .		3
100	A parametric study on reliability-based tuned-mass damper design against bridge flutter. JVC/Journal of Vibration and Control, 2017, 23, 1518-1534.	2.6	19
101	Structural health monitoring of cylindrical bodies under impulsive hydrodynamic loading by distributed FBG strain measurements. Measurement Science and Technology, 2017, 28, 024006.	2.6	22
102	Experimental study of thin film sensor networks for wind turbine blade damage detection. AIP Conference Proceedings, 2017, , .	0.4	3
103	The Stretching Method for Vibration-Based Structural Health Monitoring of Civil Structures. Computer-Aided Civil and Infrastructure Engineering, 2017, 32, 288-303.	9.8	42
104	Continuous and embedded solutions for SHM of concrete structures using changing electrical potential in self-sensing cement-based composites. Proceedings of SPIE, 2017, , .	0.8	7
105	Damage detection and localization algorithm using a dense sensor network of thin film sensors. Proceedings of SPIE, 2017, , .	0.8	0
106	Enhanced lumped circuit model for smart nanocomposite cement-based sensors under dynamic compressive loading conditions. Sensors and Actuators A: Physical, 2017, 260, 45-57.	4.1	60
107	Experimental damage detection of wind turbine blade using thin film sensor array. Proceedings of SPIE, 2017, , .	0.8	1
108	Novel dynamic thermal characterization of multifunctional concretes with microencapsulated phase change materials. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
109	Damage location and quantification of a pretensioned concrete beam using stochastic subspace identification. , 2017, , .		1
110	Dense sensor networks for mesoscale SHM: innovations in sensing technologies and signal processing. Measurement Science and Technology, 2017, 28, 040103.	2.6	9
111	Multifunctional Analysis of Innovative PCM-filled Concretes. Energy Procedia, 2017, 111, 81-90.	1.8	23
112	Multipurpose experimental characterization of smart nanocomposite cement-based materials for thermal-energy efficiency and strain-sensing capability. Solar Energy Materials and Solar Cells, 2017, 161, 77-88.	6.2	75
113	Experimental and numerical analysis of energy dissipation in a sloshing absorber. Journal of Fluids and Structures, 2017, 68, 466-481.	3.4	40
114	Micromechanics modeling of the uniaxial strain-sensing property of carbon nanotube cement-matrix composites for SHM applications. Composite Structures, 2017, 163, 195-215.	5.8	131
115	Dynamic characterization of a severely damaged historic masonry bridge. Procedia Engineering, 2017, 199, 3398-3403.	1.2	23
116	Improved understanding of grouted mixture fatigue behavior under indirect tensile test configuration. Construction and Building Materials, 2017, 155, 910-918.	7.2	29
117	Damage detection, localization and quantification in conductive smart concrete structures using a resistor mesh model. Engineering Structures, 2017, 148, 924-935.	5.3	66
118	Ambient Vibration Testing of a monumental fountain by contact and non-contact sensing techniques. Procedia Engineering, 2017, 199, 3338-3343.	1.2	0
119	Detecting earthquake-induced damage in historic masonry towers using continuously monitored dynamic response-only data. Procedia Engineering, 2017, 199, 3416-3421.	1.2	19
120	Algorithm for damage detection in wind turbine blades using a hybrid dense sensor network with feature level data fusion. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 288-296.	3.9	27
121	Micromechanics modeling of the electrical conductivity of carbon nanotube cement-matrix composites. Composites Part B: Engineering, 2017, 108, 451-469.	12.0	137
122	Effects of control-structure interaction in active mass driver systems with electric torsional servomotor for seismic applications. Bulletin of Earthquake Engineering, 2017, 15, 1543-1557.	4.1	17
123	Environmental effects on natural frequencies of the San Pietro bell tower in Perugia, Italy, and their removal for structural performance assessment. Mechanical Systems and Signal Processing, 2017, 82, 307-322.	8.0	147
124	Experimental wind tunnel study of a smart sensing skin for condition evaluation of a wind turbine blade. Smart Materials and Structures, 2017, 26, 125005.	3.5	25
125	Biphasic DC measurement approach for enhanced measurement stability and multi-channel sampling of self-sensing multi-functional structural materials doped with carbon-based additives. Smart Materials and Structures, 2017, 26, 065008.	3.5	77
126	Static and Dynamic Strain Monitoring of Reinforced Concrete Components through Embedded Carbon Nanotube Cement-Based Sensors. Shock and Vibration, 2017, 2017, 1-11.	0.6	38

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127	A Simplified Parametric Study on Occupant Comfort Conditions in Base Isolated Buildings under Wind Loading. <i>Advances in Civil Engineering</i> , 2017, 2017, 1-13.	0.7	6
128	Novel nanocomposite clay brick for strain sensing in structural masonry. , 2017, , .		3
129	DYNAMIC MONITORING AND NONLINEAR ANALYSIS OF THE DOME OF THE BASILICA OF S.MARIA DEGLI ANGELI IN ASSISI. , 2017, , .		2
130	DYNAMIC TESTING AND MONITORING OF HISTORIC TOWERS FOR SEISMIC DAMAGE DETECTION. , 2017, , .		1
131	Damage Detection and Localization from Dense Network of Strain Sensors. <i>Shock and Vibration</i> , 2016, 2016, 1-13.	0.6	41
132	Reconstruction of in-plane strain maps using hybrid dense sensor network composed of sensing skin. <i>Measurement Science and Technology</i> , 2016, 27, 124016.	2.6	28
133	Innovative concretes for low-carbon constructions: a review. <i>International Journal of Low-Carbon Technologies</i> , 2016, , .	2.6	10
134	Strain sensitivity of carbon nanotube cement-based composites for structural health monitoring. , 2016, , .		7
135	Distributed thin film sensor array for damage detection and localization. , 2016, , .		1
136	Self-sensing and thermal energy experimental characterization of multifunctional cement-matrix composites with carbon nano-inclusions. , 2016, , .		8
137	Vibration-based structural health monitoring of a historic bell-tower using output-only measurements and multivariate statistical analysis. <i>Structural Health Monitoring</i> , 2016, 15, 438-457.	7.5	116
138	Carbon cement-based sensors for dynamic monitoring of structures. , 2016, , .		6
139	Smart cement paste with carbon nanotubes. , 2016, , 97-120.		25
140	Dynamic monitoring of compliant bodies impacting the water surface through local strain measurements. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
141	On vibration-based damage detection by multivariate statistical techniques: Application to a long-span arch bridge. <i>Structural Health Monitoring</i> , 2016, 15, 505-524.	7.5	107
142	Investigations on scalable fabrication procedures for self-sensing carbon nanotube cement-matrix composites for SHM applications. <i>Cement and Concrete Composites</i> , 2016, 65, 200-213.	10.7	252
143	Automated post-earthquake damage detection in a monumental bell tower by continuous dynamic monitoring. , 2016, , 812-819.		1
144	Towards smart concrete for smart cities: Recent results and future application of strain-sensing nanocomposites. <i>Journal of Smart Cities</i> , 2016, 1, .	0.5	13

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145	FIRST RESULTS OF THE VIBRATION-BASED STRUCTURAL HEALTH MONITORING OF A MASONRY DOME. , 2016, , .		0
146	Use of Distributed Sensor Networks with Optical Fibers (Brillouin Scattering) for SHM of Composite Structures. , 2016, , 27-60.		0
147	Vibration-based SHM for cultural heritage preservation: the case of the S. Pietro bell-tower in Perugia. MATEC Web of Conferences, 2015, 24, 05002.	0.2	2
148	A comparative study between carbon nanotubes and carbon nanofibers as nano-inclusions in self-sensing concrete. , 2015, , .		4
149	Electromechanical modelling of a new class of nanocomposite cement-based sensors for structural health monitoring. Structural Health Monitoring, 2015, 14, 137-147.	7.5	47
150	Considerations on the implementation and modeling of an active mass driver with electric torsional servomotor. Mechanical Systems and Signal Processing, 2015, 58-59, 53-69.	8.0	20
151	Dynamic Characterization of a Soft Elastomeric Capacitor for Structural Health Monitoring. Journal of Structural Engineering, 2015, 141, .	3.4	67
152	Structural health monitoring of suspension bridges with features affected by changing wind speed. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 141, 12-26.	3.9	41
153	An enhanced nonlinear damping approach accounting for system constraints in active mass dampers. Journal of Sound and Vibration, 2015, 357, 2-15.	3.9	10
154	Bio-based soft elastomeric capacitor for structural health monitoring applications. Structural Health Monitoring, 2015, 14, 158-167.	7.5	14
155	SENSING HARDWARE OPTIMIZATION AND AUTOMATED CONDITION ASSESSMENT OF A MONUMENTAL MASONRY BELL-TOWER. , 2015, , .		1
156	STRAIN-SENSING CARBON NANOTUBE CEMENT-BASED COMPOSITES FOR APPLICATIONS IN STRUCTURAL HEALTH MONITORING: PREPARATION AND MODELLING ISSUES. , 2015, , .		3
157	Free Vibration Response of a Frame Structural Model Controlled by a Nonlinear Active Mass Driver System. Advances in Civil Engineering, 2014, 2014, 1-11.	0.7	5
158	Electrical modelling of carbon nanotube cement-based sensors for structural dynamic monitoring. AIP Conference Proceedings, 2014, , .	0.4	12
159	Dynamic characterization of a soft elastomeric capacitor for structural health monitoring applications. Proceedings of SPIE, 2014, , .	0.8	1
160	Novel nanocomposite technologies for dynamic monitoring of structures: a comparison between cement-based embeddable and soft elastomeric surface sensors. Smart Materials and Structures, 2014, 23, 045023.	3.5	93
161	Natural frequencies identification of a reinforced concrete beam using carbon nanotube cement-based sensors. Engineering Structures, 2014, 60, 265-275.	5.3	128
162	TIAR: Renewable Energy Production, Storage and Distribution; A New Multidisciplinary Approach for the Design of Rural Facility. Energy Procedia, 2014, 45, 323-332.	1.8	15

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163	Effects of cables damage on vertical and torsional eigenproperties of suspension bridges. Journal of Sound and Vibration, 2014, 333, 2404-2421.	3.9	97
164	Optimal design of an array of active tuned mass dampers for wind-exposed high-rise buildings. Structural Control and Health Monitoring, 2013, 20, 903-917.	4.0	38
165	On damage detection by continuous dynamic monitoring in wind-excited suspension bridges. Meccanica, 2013, 48, 1031-1051.	2.0	11
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