Daniel J Inman

List of Publications by Year in Descending Order

314 papers	19,196 citations	62 h-index	131 g-index
335 ext. papers	22,810 ext. citations	3.3 avg, IF	7.39 L-index

#	Paper	IF	Citations
314	Operational modal analysis and finite element model updating of a 230 m tall tower. *Structures*, **2022**, 37, 154-167	3.4	1
313	Operational Modal Analysis and Finite Element Model Updating of a 53-Story Building. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 83-91	0.3	
312	Structural Damage Detection in Civil Engineering with Machine Learning: Current State of the Art. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 223-229	0.3	3
311	An Overview of Deep Learning Methods Used in Vibration-Based Damage Detection in Civil Engineering. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 93-98	0.3	0
310	One-Dimensional Convolutional Neural Networks for Real-Time Damage Detection of Rotating Machinery. *Conference Proceedings of the Society for Experimental Mechanics*, **2022**, 73-83	0.3	2
309	Frequency attenuation band with low vibration transmission in a finite-size plate strip embedded with 2D acoustic black holes. *Mechanical Systems and Signal Processing*, **2022**, 163, 108149	7.8	6
308	Birds can transition between stable and unstable states via wing morphing.. *Nature*, **2022**,	50.4	4
307	A review of avian-inspired morphing for UAV flight control. *Progress in Aerospace Sciences*, **2022**, 132, 100825	8.8	3
306	An Overview on Floor Vibration Serviceability Evaluation Methods with a Large Database of Recorded Floor Data. *Conference Proceedings of the Society for Experimental Mechanics*, **2021**, 91-101	0.3	3
305	A methodological approach towards evaluating structural damage severity using 1D CNNs. *Structures*, **2021**, 34, 4435-4446	3.4	5
304	Aerodynamic efficiency of gliding birds vs comparable UAVs: a review. *Bioinspiration and Biomimetics*, **2021**, 16,	2.6	4
303	Self-Programming Synaptic Resistor Circuit for Intelligent Systems. *Advanced Intelligent Systems*, **2021**, 3, 2100016	6	1
302	Gull-inspired joint-driven wing morphing allows adaptive longitudinal flight control. *Journal of the Royal Society Interface*, **2021**, 18, 20210132	4.1	7
301	A review of vibration-based damage detection in civil structures: From traditional methods to Machine Learning and Deep Learning applications. *Mechanical Systems and Signal Processing*, **2021**, 147, 107077	7.8	181
300	1D convolutional neural networks and applications: A survey. *Mechanical Systems and Signal Processing*, **2021**, 151, 107398	7.8	277
299	Laser induced graphene for in situ damage sensing in aramid fiber reinforced composites. *Composites Science and Technology*, **2021**, 201, 108541	8.6	9
298	Energy generated through the pyroelectric effect using Macro-fiber Composites. *Journal of Intelligent Material Systems and Structures*, **2021**, 32, 240-250	2.3	0

297	Dehydrofluorinated PVDF for structural health monitoring in fiber reinforced composites. *Composites Science and Technology*, **2021**, 214, 108982	8.6	0
296	Nonlinear vibration energy harvesting and vibration suppression technologies: Designs, analysis, and applications. *Applied Physics Reviews*, **2021**, 8, 031317	17.3	17
295	Energy harvesting for jet engine monitoring. *Nano Energy*, **2020**, 75, 104853	17.1	33
294	A numerical and experimental investigation of a special type of floating-slab tracks. *Engineering Structures*, **2020**, 215, 110734	4.7	12
293	Load alleviation of feather-inspired compliant airfoils for instantaneous flow control. *Bioinspiration and Biomimetics*, **2020**,	2.6	4
292	Suppression of Cross-Well Oscillations for Bistable Composites Through Potential Well Elimination. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2020**, 142,	1.6	3
291	A morphing metastructure concept combining shape memory alloy wires and permanent magnets for multistable behavior. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	2
290	A novel video-vibration monitoring system for walking pattern identification on floors. *Advances in Engineering Software*, **2020**, 139, 102710	3.6	10
289	Analysis of floor vibration evaluation methods using a large database of floors framed with W-Shaped members subjected to walking excitation. *Journal of Constructional Steel Research*, **2020**, 164, 105764	3.8	4
288	Vibration annoyance assessment of train induced excitations from tunnels embedded in rock. *Science of the Total Environment*, **2020**, 711, 134528	10.2	12
287	Laser induced graphene in fiberglass-reinforced composites for strain and damage sensing. *Composites Science and Technology*, **2020**, 199, 108367	8.6	17
286	Nature of coupling in non-conservative distributed parameter systems attached to external damping sources. *Mathematics and Mechanics of Solids*, **2020**, 25, 1367-1383	2.3	0
285	Electromechanical modelling of a bistable plate with Macro Fiber Composites under nonlinear vibrations. *Journal of Sound and Vibration*, **2019**, 446, 326-342	3.9	26
284	1-D Convolutional Neural Networks for Signal Processing Applications **2019**,		89
283	Low reflection effect by 3D printed functionally graded acoustic black holes. *Journal of Sound and Vibration*, **2019**, 450, 96-108	3.9	27
282	Vibration Damping Mechanism of Fiber-Reinforced Composites with Integrated Piezoelectric Nanowires. *ACS Applied Materials & Interfaces*, **2019**, 11, 47373-47381	9.5	3
281	Review of Pedestrian Load Models for Vibration Serviceability Assessment of Floor Structures. *Vibration*, **2019**, 2, 1-24	2	18
280	Experimental investigation into the nonlinear dynamics of a bistable laminate. *Nonlinear Dynamics*, **2019**, 95, 3019-3039	5	15

279	Fault Detection and Severity Identification of Ball Bearings by Online Condition Monitoring. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8136-8147	8.9	51
278	Pitch Control Effectiveness of the Avian Elbow and Wrist via a Numerical Lifting Line Analysis **2019**,		1
277	Vibrations Serviceability of a Medical Facility Floor for Sensitive Equipment Replacement: Evaluation with Sparse In Situ Data. *Practice Periodical on Structural Design and Construction*, **2019**, 24, 05018006	1.2	10
276	Unreinforced Masonry Façade Assessment of a Historic Building for Excessive Displacements Due to a Nearby Subway Construction. *Practice Periodical on Structural Design and Construction*, **2019**, 24, 05018005	1.2	6
275	High-Performance Piezoelectric Energy Harvesters and Their Applications. *Joule*, **2018**, 2, 642-697	27.8	471
274	Orthogonal spiral structures for energy harvesting applications: Theoretical and experimental analysis. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 1900-1912	2.3	3
273	A tale of two tails: developing an avian inspired morphing actuator for yaw control and stability. *Bioinspiration and Biomimetics*, **2018**, 13, 026008	2.6	8
272	Novel Framework for Vibration Serviceability Assessment of Stadium Grandstands Considering Durations of Vibrations. *Journal of Structural Engineering*, **2018**, 144, 04017214	3	13
271	Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks. *Journal of Sound and Vibration*, **2018**, 424, 158-172	3.9	84
270	Experimental validation of a FRF-based model updating method. *JVC/Journal of Vibration and Control*, **2018**, 24, 1570-1583	2	19
269	1-D CNNs for structural damage detection: Verification on a structural health monitoring benchmark data. *Neurocomputing*, **2018**, 275, 1308-1317	5.4	180
268	A Novel Nonlinear Piezoelectric Energy Harvesting System Based on Linear-Element Coupling: Design, Modeling and Dynamic Analysis. *Sensors*, **2018**, 18,	3.8	27
267	A multifunctional bistable laminate: Snap-through morphing enabled by broadband energy harvesting. *Journal of Intelligent Material Systems and Structures*, **2018**, 29, 2528-2543	2.3	31
266	Kappa-PSO-FAN based method for damage identification on composite structural health monitoring. *Expert Systems With Applications*, **2018**, 95, 1-13	7.8	12
265	Characterizing the pyroelectric coefficient for macro-fiber composites. *Smart Materials and Structures*, **2018**, 27, 115001	3.4	2
264	Performance enhancement of nonlinear asymmetric bistable energy harvesting from harmonic, random and human motion excitations. *Applied Physics Letters*, **2018**, 112, 213903	3.4	37
263	In Situ Damage Detection for Fiber-Reinforced Composites Using Integrated Zinc Oxide Nanowires. *Advanced Functional Materials*, **2018**, 28, 1802846	15.6	15
262	Design and modeling of a flexible longitudinal zigzag structure for enhanced vibration energy harvesting. *Journal of Intelligent Material Systems and Structures*, **2017**, 28, 367-380	2.3	40

261	A piezoelectrically generated bistable laminate for morphing. *Materials Letters*, **2017**, 190, 123-126	3.3	30
260	Dimensional Synthesis of a MultiLoop Linkage With Single Input Using Parameterized Curves. *Journal of Mechanisms and Robotics*, **2017**, 9,	2.2	4
259	Nonexplosive Deconstruction of Steel Girder Highway Bridges. *Journal of Performance of Constructed Facilities*, **2017**, 31, 04016087	2	3
258	Analytical and experimental investigation of flexible longitudinal zigzag structures for enhanced multi-directional energy harvesting. *Smart Materials and Structures*, **2017**, 26, 035008	3.4	39
257	Autonomous Gust Alleviation in UAVs **2017**, 465-494		2
256	Lumped mass model of a 1D metastructure for vibration suppression with no additional mass. *Journal of Sound and Vibration*, **2017**, 403, 75-89	3.9	37
255	Real-time structural health monitoring of fatigue crack on aluminum beam using an impedance-based portable device. *Journal of Intelligent Material Systems and Structures*, **2017**, 28, 3152-3162	2.3	4
254	Stall Recovery of a Morphing Wing via Extended Nonlinear Lifting-Line Theory. *AIAA Journal*, **2017**, 55, 2956-2963	2.1	20
253	Dynamic Forces Induced by a Single Pedestrian: A Literature Review. *Applied Mechanics Reviews*, **2017**, 69,	8.6	20
252	Performance analysis of simplified Fuzzy ARTMAP and Probabilistic Neural Networks for identifying structural damage growth. *Applied Soft Computing Journal*, **2017**, 52, 53-63	7.5	20
251	Control and characterization of a bistable laminate generated with piezoelectricity. *Smart Materials and Structures*, **2017**, 26, 085007	3.4	27
250	Why morphology matters in birds and UAV's: How scale affects attitude wind sensitivity. *Applied Physics Letters*, **2017**, 111, 203701	3.4	3
249	Real-time vibration-based structural damage detection using one-dimensional convolutional neural networks. *Journal of Sound and Vibration*, **2017**, 388, 154-170	3.9	498
248	Optimization of linear zigzag insert metastructures for low-frequency vibration attenuation using genetic algorithms. *Mechanical Systems and Signal Processing*, **2017**, 84, 625-641	7.8	12
247	A new approach for structural damage detection exploring the singular spectrum analysis. *Journal of Intelligent Material Systems and Structures*, **2017**, 28, 1160-1174	2.3	19
246	Sensing and Monitoring for Stadium Structures: A Review of Recent Advances and a Forward Look. *Frontiers in Built Environment*, **2017**, 3,	2.2	23
245	Nonlinear Damping in Floor Vibrations Serviceability: Verification on a Laboratory Structure. *Conference Proceedings of the Society for Experimental Mechanics*, **2017**, 139-145	0.3	10
244	Self-Organizing Maps for Structural Damage Detection: A Novel Unsupervised Vibration-Based Algorithm. *Journal of Performance of Constructed Facilities*, **2016**, 30, 04015043	2	26

243	Detection and localization of fatigue crack with nonlinear instantaneous baseline. *Journal of Intelligent Material Systems and Structures*, **2016**, 27, 1577-1583	2.3	12
242	Analytical modeling of orthogonal spiral structures. *Smart Materials and Structures*, **2016**, 25, 115017	3.4	6
241	Quantification of Structural Damage with Self-Organizing Maps. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 47-57	0.3	12
240	Active vibration control of flexible cantilever plates using piezoelectric materials and artificial neural networks. *Journal of Sound and Vibration*, **2016**, 363, 33-53	3.9	81
239	Optimization of chiral lattice based metastructures for broadband vibration suppression using genetic algorithms. *Journal of Sound and Vibration*, **2016**, 369, 50-62	3.9	28
238	Simplified fuzzy ARTMAP network-based method for assessment of structural damage applied to composite structures. *Journal of Composite Materials*, **2016**, 50, 3501-3514	2.7	6
237	Synergistic Smart Morphing Alleron: Capabilites Identification **2016**,		5
236	Dynamic Modulus Properties of Objet Connex 3D Printer Digital Materials. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 191-198	0.3	3
235	Nonparametric Structural Damage Detection Algorithm for Ambient Vibration Response: Utilizing Artificial Neural Networks and Self-Organizing Maps. *Journal of Architectural Engineering*, **2016**, 22, 04016004	1.5	31
234	Amplitude-Dependent Damping in Vibration Serviceability: Case of a Laboratory Footbridge. *Journal of Architectural Engineering*, **2016**, 22, 04016005	1.5	15
233	Residual thermal effects in macro fiber composite actuators exposed to persistent temperature cycling. *Applied Physics Letters*, **2016**, 108, 111901	3.4	4
232	Recent Issues on Stadium Monitoring and Serviceability: A Review. *Conference Proceedings of the Society for Experimental Mechanics*, **2016**, 411-416	0.3	17
231	Harmonic balance analysis of nonlinear tristable energy harvesters for performance enhancement. *Journal of Sound and Vibration*, **2016**, 373, 223-235	3.9	93
230	Miniature Contactless Piezoelectric Wind Turbine. *Integrated Ferroelectrics*, **2015**, 159, 1-13	0.8	7
229	. *IEEE Sensors Journal*, **2015**, 15, 4373-4379	4	3
228	Powering Pacemakers with Heartbeat Vibrations. *Advanced Micro & Nanosystems*, **2015**, 435-458		1
227	Impact-induced high-energy orbits of nonlinear energy harvesters. *Applied Physics Letters*, **2015**, 106, 093901	3.4	121
226	A Comparative Assessment of Nonlinear State Estimation Methods for Structural Health Monitoring. *Conference Proceedings of the Society for Experimental Mechanics*, **2015**, 45-54	0.3	13

225	Iterated square root unscented Kalman filter for nonlinear states and parameters estimation: three DOF damped system. *Journal of Civil Structural Health Monitoring*, **2015**, 5, 493-508	2.9	22
224	Active angular control of a sectioned airfoil using shape memory alloys and fuzzy controller. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2015**, 37, 1555-1567	2	8
223	Modeling vibration response and damping of cables and cabled structures. *Journal of Sound and Vibration*, **2015**, 336, 240-256	3.9	22
222	Synergistic smart morphing aileron: Experimental quasi-static performance characterization. *Journal of Intelligent Material Systems and Structures*, **2015**, 26, 1179-1190	2.3	14
221	Chaos in the fractionally damped broadband piezoelectric energy generator. *Nonlinear Dynamics*, **2015**, 80, 1705-1719	5	42
220	Nonlinear time-varying potential bistable energy harvesting from human motion. *Applied Physics Letters*, **2015**, 107, 143904	3.4	98
219	The Jd number: An empirical constant for predicting dual cantilever flutter velocity. *Applied Physics Letters*, **2015**, 106, 244103	3.4	3
218	Memorial article for Ephrahim Garcia. *Smart Materials and Structures*, **2015**, 24, 110201	3.4	
217	Modal Parameter Variations due to Joist Bottom Chord Extension Installations on Laboratory Footbridges. *Journal of Performance of Constructed Facilities*, **2015**, 29, 04014140	2	10
216	Nonlinear Dynamic Characteristics of Variable Inclination Magnetically Coupled Piezoelectric Energy Harvesters. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2015**, 137,	1.6	28
215	Regular and chaotic vibration in a piezoelectric energy harvester with fractional damping. *European Physical Journal Plus*, **2015**, 130, 1	3.1	27
214	Spanwise morphing trailing edge on a finite wing **2015**,		3
213	Parameter identification for nonlinear biological phenomena modeled by S-systems **2015**,		2
212	A Review on Bistable Composite Laminates for Morphing and Energy Harvesting. *Applied Mechanics Reviews*, **2015**, 67,	8.6	105
211	Simplified Vibration Serviceability Evaluation of Slender Monumental Stairs. *Journal of Structural Engineering*, **2015**, 141, 04015017	3	27
210	A Preliminary Study on Piezo-aeroelastic Energy Harvesting Using a Nonlinear Trailing-Edge Flap. *International Journal of Aeronautical and Space Sciences*, **2015**, 16, 407-417	1.2	7
209	Spectrally formulated modeling of a cable-harnessed structure. *Journal of Sound and Vibration*, **2014**, 333, 3286-3304	3.9	18
208	Aeroelastic characteristics of linear and nonlinear piezo-aeroelastic energy harvester. *Journal of Intelligent Material Systems and Structures*, **2014**, 25, 401-416	2.3	25

207	Smart Structures Theory. *AIAA Journal*, **2014**, 52, 2624-2624	2.1	1
206	Broadband tristable energy harvester: Modeling and experiment verification. *Applied Energy*, **2014**, 133, 33-39	10.7	357
205	Parameters for Modeling Stranded Cables as Structural Beams. *Experimental Mechanics*, **2014**, 54, 1613-1626	2.2	26
204	Modeling energy transport in a cantilevered Euler–Bernoulli beam actively vibrating in Newtonian fluid. *Mechanical Systems and Signal Processing*, **2014**, 45, 317-329	7.8	31
203	Electromagnetic energy harvester for monitoring wind turbine blades. *Wind Energy*, **2014**, 17, 869-876	3.4	13
202	Vibration Suppression of a Large Beam Structure Using Tuned Mass Damper and Eddy Current Damping. *Shock and Vibration*, **2014**, 2014, 1-10	1.1	20
201	Bakeout Effects on Dynamic Response of Spaceflight Cables. *Journal of Spacecraft and Rockets*, **2014**, 51, 1721-1734	1.5	7
200	A distributed parameter electromechanical and statistical model for energy harvesting from turbulence-induced vibration. *Smart Materials and Structures*, **2014**, 23, 115003	3.4	31
199	Synergistic Smart Morphing Aileron: Aero-structural Performance Analysis **2014**,		5
198	Investigating the thermally induced acoustoelastic effect in isotropic media with Lamb waves. *Journal of the Acoustical Society of America*, **2014**, 136, 2532-43	2.2	9
197	Experimental validation of the vibro-acoustic model of a pressurized membrane. *Mechanical Systems and Signal Processing*, **2014**, 45, 330-345	7.8	5
196	Finite element analysis and experimental study on dynamic properties of a composite beam with viscoelastic damping. *Journal of Sound and Vibration*, **2013**, 332, 6177-6191	3.9	38
195	A novel unmanned aircraft with solid-state control surfaces: Analysis and flight demonstration. *Journal of Intelligent Material Systems and Structures*, **2013**, 24, 147-167	2.3	36
194	Simultaneous energy harvesting and gust alleviation for a multifunctional composite wing spar using reduced energy control via piezoceramics. *Journal of Composite Materials*, **2013**, 47, 125-146	2.7	45
193	Shape control of multi-cellular inflatable panels. *Frontiers of Mechanical Engineering*, **2013**, 8, 276-282	3.3	
192	Parametrically excited nonlinear piezoelectric compact wind turbine. *Renewable Energy*, **2013**, 50, 977-987	3.1	70
191	Thermal sensitivity of Lamb waves for structural health monitoring applications. *Ultrasonics*, **2013**, 53, 677-85	3.5	53
190	Continuous crack modeling in piezoelectrically driven vibrations of an Euler–Bernoulli beam. *JVC/Journal of Vibration and Control*, **2013**, 19, 341-355	2	18

189	Experimental Validation for a Multifunctional Wing Spar With Sensing, Harvesting, and Gust Alleviation Capabilities. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 1289-1299	5.5	19
188	Experimental testing of spanwise morphing trailing edge concept **2013**,		10
187	Analysis of energy conversion in switched-voltage control with arbitrary switching frequency. *Sensors and Actuators A: Physical*, **2012**, 174, 162-172	3.9	11
186	Approximate frequency analysis in structural dynamics. *Mechanical Systems and Signal Processing*, **2012**, 27, 370-378	7.8	3
185	Electromechanical comparison of cantilevered beams with multifunctional piezoceramic devices. *Mechanical Systems and Signal Processing*, **2012**, 27, 763-777	7.8	52
184	Vibro-acoustics of a pressurized optical membrane. *Mechanical Systems and Signal Processing*, **2012**, 30, 373-392	7.8	8
183	Parametric Study of Zigzag Microstructure for Vibrational Energy Harvesting. *Journal of Microelectromechanical Systems*, **2012**, 21, 145-160	2.5	44
182	Real-time multi-sensors measurement system with temperature effects compensation for impedance-based structural health monitoring. *Structural Health Monitoring*, **2012**, 11, 173-186	4.4	32
181	Bending strength of piezoelectric ceramics and single crystals for multifunctional load-bearing applications. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 1085-92	3.2	24
180	A survey of control strategies for simultaneous vibration suppression and energy harvesting via piezoceramics. *Journal of Intelligent Material Systems and Structures*, **2012**, 23, 2021-2037	2.3	53
179	Nonlinear nonconservative behavior and modeling of piezoelectric energy harvesters including proof mass effects. *Journal of Intelligent Material Systems and Structures*, **2012**, 23, 183-199	2.3	89
178	Optimal configurations of bistable piezo-composites for energy harvesting. *Applied Physics Letters*, **2012**, 100, 114104	3.4	96
177	Powering pacemakers from heartbeat vibrations using linear and nonlinear energy harvesters. *Applied Physics Letters*, **2012**, 100, 042901	3.4	240
176	Structural Damage Identification and Location Using Grammian Matrices. *Shock and Vibration*, **2012**, 19, 287-299	1.1	3
175	Effect of Bottom Chord Extensions on the Static Flexural Stiffness of Open-Web Steel Joists. *Journal of Performance of Constructed Facilities*, **2012**, 26, 620-632	2	10
174	Artificial piezoelectric grass for energy harvesting from turbulence-induced vibration. *Smart Materials and Structures*, **2012**, 21, 105024	3.4	84
173	Multifunctional Unmanned Aerial Vehicle Wing Spar for Low-Power Generation and Storage. *Journal of Aircraft*, **2012**, 49, 292-301	1.6	43
172	Nondimensional Modeling of Ducted-Fan Aerodynamics. *Journal of Aircraft*, **2012**, 49, 126-140	1.6	13

171	Theoretical and Experimental Analysis of Hysteresis in Piezocomposite Airfoils Using Preisach Model. *Journal of Aircraft*, **2011**, 48, 1935-1947	1.6	11
170	Ducted-Fan Force and Moment Control via Steady and Synthetic Jets. *Journal of Aircraft*, **2011**, 48, 514-526	1.6	10
169	A Review of Morphing Aircraft. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 823-877	2.3	741
168	Energy-based comparison of various controllers for vibration suppression using piezoceramics **2011** ,		2
167	Time-domain analysis of piezoelectric impedance-based structural health monitoring using multilevel wavelet decomposition. *Mechanical Systems and Signal Processing*, **2011**, 25, 1550-1558	7.8	40
166	Equivalent damping and frequency change for linear and nonlinear hybrid vibrational energy harvesting systems. *Journal of Sound and Vibration*, **2011**, 330, 5583-5597	3.9	126
165	Comparison of Control Laws for Vibration Suppression Based on Energy Consumption. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 795-809	2.3	35
164	Self-filtering oscillations in carbon nanotube hetero-junctions. *Nanotechnology*, **2011**, 22, 465501	3.4	6
163	Macro-Fiber Composite Actuators for Flow Control of a Variable Camber Airfoil. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 81-91	2.3	24
162	Modeling and Experimental Aspects of Self-healing Bolted Joint through Shape Memory Alloy Actuators. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 1581-1594	2.3	5
161	Electromechanical Modeling of the Low-Frequency Zigzag Micro-Energy Harvester. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 271-282	2.3	74
160	Preface: Educating Engineers About Intelligent Material Systems and Structures. *Journal of Intelligent Material Systems and Structures*, **2011**, 22, 305-306	2.3	
159	Mechanical effect of combined piezoelectric and electromagnetic energy harvesting. *Conference Proceedings of the Society for Experimental Mechanics*, **2011**, 261-272	0.3	5
158	Piezoceramic Composite Actuators for Flow Control in Low Reynolds Number Airflow. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 1201-1212	2.3	9
157	Lightweight High Voltage Electronic Circuits for Piezoelectric Composite Actuators. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 1417-1426	2.3	13
156	Influence of Excitation Signal on Impedance-based Structural Health Monitoring. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 1409-1416	2.3	12
155	Multifunctional self-charging structures using piezoceramics and thin-film batteries. *Smart Materials and Structures*, **2010**, 19, 115021	3.4	73
154	Novel, Bidirectional, Variable-Camber Airfoil via Macro-Fiber Composite Actuators. *Journal of Aircraft*, **2010**, 47, 303-314	1.6	108

153	Frequency Self-tuning Scheme for Broadband Vibration Energy Harvesting. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 897-906	2.3	104
152	On the energy harvesting potential of piezoaeroelastic systems. *Applied Physics Letters*, **2010**, 96, 184103	3.4	279
151	A piezoelectric bistable plate for nonlinear broadband energy harvesting. *Applied Physics Letters*, **2010**, 97, 104102	3.4	334
150	Resonant manifestation of intrinsic nonlinearity within electroelastic micropower generators. *Applied Physics Letters*, **2010**, 97, 254101	3.4	45
149	Nonlinear piezoelectricity in electroelastic energy harvesters: Modeling and experimental identification. *Journal of Applied Physics*, **2010**, 108, 074903	2.5	171
148	Transient Performance of Energy Harvesting Strategies under Constant Force Magnitude Excitation. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 1279-1291	2.3	17
147	Low-Cost Integrable Tuning-Free Converter for Piezoelectric Energy Harvesting Optimization. *IEEE Transactions on Power Electronics*, **2010**, 25, 1811-1819	7.2	22
146	Resistive Impedance Matching Circuit for Piezoelectric Energy Harvesting. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 1293-1302	2.3	240
145	Adaptive Modified Positive Position Feedback for Active Vibration Control of Structures. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 571-580	2.3	35
144	Piezoaeroelastic Modeling and Analysis of a Generator Wing with Continuous and Segmented Electrodes. *Journal of Intelligent Material Systems and Structures*, **2010**, 21, 983-993	2.3	111
143	Macro-Fiber Composite actuated simply supported thin airfoils. *Smart Materials and Structures*, **2010**, 19, 055010	3.4	51
142	Analytical and Experimental Characterization of Macro-Fiber Composite Actuated Thin Clamped-Free Unimorph Benders. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2010**, 132,	1.6	45
141	Instantaneous baseline structural damage detection using a miniaturized piezoelectric guided waves system. *KSCE Journal of Civil Engineering*, **2010**, 14, 889-895	1.9	30
140	Temperature corrected sensor diagnostics for impedance-based SHM. *Journal of Sound and Vibration*, **2010**, 329, 2323-2336	3.9	24
139	Coupled out of plane vibrations of spiral beams for micro-scale applications. *Journal of Sound and Vibration*, **2010**, 329, 5584-5599	3.9	23
138	Active shape change of an SMA hybrid composite plate. *Smart Structures and Systems*, **2010**, 6, 91-100		3
137	Ultra low-power active wireless sensor for structural health monitoring. *Smart Structures and Systems*, **2010**, 6, 675-687		12
136	Small-scale Piezoelectric Energy Harvesting Devices Using Low Energy Density Sources. *Journal of the Korean Physical Society*, **2010**, 57, 947-951	0.6	10

135	Nonlinear Control of a Membrane Mirror Strip Actuated Axially and in Bending. *AIAA Journal*, **2009**, 47, 484-493	2.1	10
134	Multifunctional materials and structures for autonomic systems. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2009**, 223, 431-434	1	2
133	An Approach to Force-Feedback Control with Traveling Wave Ultrasonic Motor. *Journal of Intelligent Material Systems and Structures*, **2009**, 20, 1393-1400	2.3	4
132	Modeling and Control of a Membrane Strip Using a Single Piezoelectric Bimorph. *JVC/Journal of Vibration and Control*, **2009**, 15, 391-414	2	10
131	A time-varying identification method for mixed response measurements. *Journal of Sound and Vibration*, **2009**, 319, 850-868	3.9	7
130	On the optimal energy harvesting from a vibration source. *Journal of Sound and Vibration*, **2009**, 320, 386-405	3.9	250
129	An electromechanical finite element model for piezoelectric energy harvester plates. *Journal of Sound and Vibration*, **2009**, 327, 9-25	3.9	207
128	2-D differential quadrature solution for vibration analysis of functionally graded conical, cylindrical shell and annular plate structures. *Journal of Sound and Vibration*, **2009**, 328, 259-290	3.9	273
127	An experimentally validated bimorph cantilever model for piezoelectric energy harvesting from base excitations. *Smart Materials and Structures*, **2009**, 18, 025009	3.4	852
126	Reference-Free Damage Detection Using Instantaneous Baseline Measurements. *AIAA Journal*, **2009**, 47, 1952-1964	2.1	57
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