

# Daniel J Inman

## List of Publications by Citations

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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	A Review of Power Harvesting from Vibration Using Piezoelectric Materials. <i>The Shock and Vibration Digest</i> , <b>2004</b> , 36, 197-205		911
313	An experimentally validated bimorph cantilever model for piezoelectric energy harvesting from base excitations. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 025009	3.4	852
312	A Review of Morphing Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 823-877	2.3	741
311	A Distributed Parameter Electromechanical Model for Cantilevered Piezoelectric Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2008</b> , 130,	1.6	720
310	Overview of Piezoelectric Impedance-Based Health Monitoring and Path Forward. <i>The Shock and Vibration Digest</i> , <b>2003</b> , 35, 451-463		681
309	A piezomagnetoelastic structure for broadband vibration energy harvesting. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 254102	3.4	678
308	A Self-Sensing Piezoelectric Actuator for Collocated Control. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1992</b> , 3, 166-185	2.3	545
307	Estimation of Electric Charge Output for Piezoelectric Energy Harvesting. <i>Strain</i> , <b>2004</b> , 40, 49-58	1.7	509
306	Real-time vibration-based structural damage detection using one-dimensional convolutional neural networks. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 388, 154-170	3.9	498
305	High-Performance Piezoelectric Energy Harvesters and Their Applications. <i>Joule</i> , <b>2018</b> , 2, 642-697	27.8	471
304	Comparison of Piezoelectric Energy Harvesting Devices for Recharging Batteries. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2005</b> , 16, 799-807	2.3	448
303	Broadband tristable energy harvester: Modeling and experiment verification. <i>Applied Energy</i> , <b>2014</b> , 133, 33-39	10.7	357
302	A piezoelectric bistable plate for nonlinear broadband energy harvesting. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 104102	3.4	334
301	Impedance-Based Health Monitoring of Civil Structural Components. <i>Journal of Infrastructure Systems</i> , <b>2000</b> , 6, 153-160	2.9	292
300	On the energy harvesting potential of piezoaeroelastic systems. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 184103	3.4	279
299	1D convolutional neural networks and applications: A survey. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 151, 107398	7.8	277
298	Modeling of Piezoelectric Energy Harvesting from an L-shaped Beam-mass Structure with an Application to UAVs. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2009</b> , 20, 529-544	2.3	274

297	2-D differential quadrature solution for vibration analysis of functionally graded conical, cylindrical shell and annular plate structures. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 328, 259-290	3.9	273
296	On the optimal energy harvesting from a vibration source. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 320, 386-405	3.9	250
295	Piezoelectric energy harvesting from broadband random vibrations. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 115005	3.4	249
294	Powering pacemakers from heartbeat vibrations using linear and nonlinear energy harvesters. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 042901	3.4	240
293	Resistive Impedance Matching Circuit for Piezoelectric Energy Harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2010</b> , 21, 1293-1302	2.3	240
292	An investigation into the performance of macro-fiber composites for sensing and structural vibration applications. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 683-697	7.8	227
291	An electromechanical finite element model for piezoelectric energy harvester plates. <i>Journal of Sound and Vibration</i> , <b>2009</b> , 327, 9-25	3.9	207
290	Generation and Storage of Electricity from Power Harvesting Devices. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2005</b> , 16, 67-75	2.3	200
289	Feasibility of using impedance-based damage assessment for pipeline structures. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2001</b> , 30, 1463-1474	4	183
288	A review of vibration-based damage detection in civil structures: From traditional methods to Machine Learning and Deep Learning applications. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 147, 107077	7.8	181
287	1-D CNNs for structural damage detection: Verification on a structural health monitoring benchmark data. <i>Neurocomputing</i> , <b>2018</b> , 275, 1308-1317	5.4	180
286	Nonlinear piezoelectricity in electroelastic energy harvesters: Modeling and experimental identification. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 074903	2.5	171
285	An Integrated Health Monitoring Technique Using Structural Impedance Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2000</b> , 11, 448-455	2.3	147
284	Concept and model of eddy current damper for vibration suppression of a beam. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 288, 1177-1196	3.9	139
283	Equivalent damping and frequency change for linear and nonlinear hybrid vibrational energy harvesting systems. <i>Journal of Sound and Vibration</i> , <b>2011</b> , 330, 5583-5597	3.9	126
282	Impact-induced high-energy orbits of nonlinear energy harvesters. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 093901	3.4	121
281	Structural health monitoring using piezoelectric impedance measurements. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2007</b> , 365, 373-92	3	121
280	Piezoaeroelastic Modeling and Analysis of a Generator Wing with Continuous and Segmented Electrodes. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2010</b> , 21, 983-993	2.3	111

279	Vibration suppression of a cantilever beam using eddy current damper. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 284, 805-824	3.9	111
278	Electro-Mechanical Impedance-Based Wireless Structural Health Monitoring Using PCA-Data Compression and k-means Clustering Algorithms. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2008</b> , 19, 509-520	2.3	110
277	Novel, Bidirectional, Variable-Camber Airfoil via Macro-Fiber Composite Actuators. <i>Journal of Aircraft</i> , <b>2010</b> , 47, 303-314	1.6	108
276	The relationship between positive position feedback and output feedback controllers. <i>Smart Materials and Structures</i> , <b>1999</b> , 8, 285-291	3.4	108
275	A Review on Bistable Composite Laminates for Morphing and Energy Harvesting. <i>Applied Mechanics Reviews</i> , <b>2015</b> , 67,	8.6	105
274	Frequency Self-tuning Scheme for Broadband Vibration Energy Harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2010</b> , 21, 897-906	2.3	104
273	Nonlinear time-varying potential bistable energy harvesting from human motion. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 143904	3.4	98
272	An experimental comparison between several active composite actuators for power generation. <i>Smart Materials and Structures</i> , <b>2006</b> , 15, 1211-1216	3.4	97
271	Snap-through of unsymmetric laminates using piezocomposite actuators. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2442-2448	8.6	97
270	Optimal configurations of bistable piezo-composites for energy harvesting. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 114104	3.4	96
269	Modeling and Flight Control of Large-Scale Morphing Aircraft. <i>Journal of Aircraft</i> , <b>2007</b> , 44, 1077-1087	1.6	93
268	Harmonic balance analysis of nonlinear tristable energy harvesters for performance enhancement. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 373, 223-235	3.9	93
267	1-D Convolutional Neural Networks for Signal Processing Applications <b>2019</b> ,		89
266	Nonlinear nonconservative behavior and modeling of piezoelectric energy harvesters including proof mass effects. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 183-199	2.3	89
265	Impedance-Based Structural Health Monitoring with Artificial Neural Networks. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2000</b> , 11, 206-214	2.3	87
264	Nonlinear Tensile and Shear Behavior of Macro Fiber Composite Actuators. <i>Journal of Composite Materials</i> , <b>2004</b> , 38, 855-869	2.7	86
263	Some design considerations for active and passive constrained layer damping treatments. <i>Smart Materials and Structures</i> , <b>1996</b> , 5, 301-313	3.4	85
262	Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 424, 158-172	3.9	84

261	Artificial piezoelectric grass for energy harvesting from turbulence-induced vibration. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 105024	3.4	84
260	Active vibration control of flexible cantilever plates using piezoelectric materials and artificial neural networks. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 363, 33-53	3.9	81
259	Aerodynamic and Static Aeroelastic Characteristics of a Variable-Span Morphing Wing. <i>Journal of Aircraft</i> , <b>2005</b> , 42, 528-534	1.6	75
258	Electromechanical Modeling of the Low-Frequency Zigzag Micro-Energy Harvester. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 271-282	2.3	74
257	Multifunctional self-charging structures using piezoceramics and thin-film batteries. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 115021	3.4	73
256	Parametrically excited nonlinear piezoelectric compact wind turbine. <i>Renewable Energy</i> , <b>2013</b> , 50, 977-987	7.1	70
255	Sensor Validation for Smart Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1999</b> , 10, 973-982	2.3	63
254	Recharging Batteries using Energy Harvested from Thermal Gradients. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2007</b> , 18, 3-10	2.3	62
253	Power generation and shunt damping performance of a single crystal lead magnesium niobate-lead zirconate titanate unimorph: Analysis and experiment. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 224102	3.4	58
252	Reference-Free Damage Detection Using Instantaneous Baseline Measurements. <i>AIAA Journal</i> , <b>2009</b> , 47, 1952-1964	2.1	57
251	Thermal sensitivity of Lamb waves for structural health monitoring applications. <i>Ultrasonics</i> , <b>2013</b> , 53, 677-85	3.5	53
250	A survey of control strategies for simultaneous vibration suppression and energy harvesting via piezoceramics. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2012</b> , 23, 2021-2037	2.3	53
249	Electromechanical comparison of cantilevered beams with multifunctional piezoceramic devices. <i>Mechanical Systems and Signal Processing</i> , <b>2012</b> , 27, 763-777	7.8	52
248	Macro-Fiber Composite actuated simply supported thin airfoils. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 055010	3.4	51
247	Gossamer Spacecraft: Recent Trends in Design, Analysis, Experimentation, and Control. <i>Journal of Spacecraft and Rockets</i> , <b>2006</b> , 43, 10-24	1.5	51
246	Fault Detection and Severity Identification of Ball Bearings by Online Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 8136-8147	8.9	51
245	Macro-fiber composite actuators for a swept wing unmanned aircraft. <i>Aeronautical Journal</i> , <b>2009</b> , 113, 385-395	0.9	48
244	Vibration Control through Passive Constrained Layer Damping and Active Control. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1997</b> , 8, 663-677	2.3	48

243	Structural health monitoring using electro-mechanical impedance sensors. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , <b>2008</b> , 31, 714-724	3	47
242	Enhanced Piezoelectric Shunt Design. <i>Shock and Vibration</i> , <b>2003</b> , 10, 127-133	1.1	47
241	Modeling and analysis of a cracked composite cantilever beam vibrating in coupled bending and torsion. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 284, 23-49	3.9	46
240	Simultaneous energy harvesting and gust alleviation for a multifunctional composite wing spar using reduced energy control via piezoceramics. <i>Journal of Composite Materials</i> , <b>2013</b> , 47, 125-146	2.7	45
239	Resonant manifestation of intrinsic nonlinearity within electroelastic micropower generators. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 254101	3.4	45
238	Analytical and Experimental Characterization of Macro-Fiber Composite Actuated Thin Clamped-Free Unimorph Benders. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2010</b> , 132,	1.6	45
237	Parametric Study of Zigzag Microstructure for Vibrational Energy Harvesting. <i>Journal of Microelectromechanical Systems</i> , <b>2012</b> , 21, 145-160	2.5	44
236	Non-linear vibrations of parametrically excited cantilever beams subjected to non-linear delayed-feedback control. <i>International Journal of Non-Linear Mechanics</i> , <b>2008</b> , 43, 801-812	2.8	44
235	Multifunctional Unmanned Aerial Vehicle Wing Spar for Low-Power Generation and Storage. <i>Journal of Aircraft</i> , <b>2012</b> , 49, 292-301	1.6	43
234	Non-contact vibration control system employing an active eddy current damper. <i>Journal of Sound and Vibration</i> , <b>2007</b> , 305, 596-613	3.9	43
233	Chaos in the fractionally damped broadband piezoelectric energy generator. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 1705-1719	5	42
232	Reduction of Observation Spillover in Vibration Suppression Using a Sliding Mode Observer. <i>JVC/Journal of Vibration and Control</i> , <b>2001</b> , 7, 1087-1105	2	42
231	Design and modeling of a flexible longitudinal zigzag structure for enhanced vibration energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2017</b> , 28, 367-380	2.3	40
230	Time-domain analysis of piezoelectric impedance-based structural health monitoring using multilevel wavelet decomposition. <i>Mechanical Systems and Signal Processing</i> , <b>2011</b> , 25, 1550-1558	7.8	40
229	Nonlinear Response of the Macro Fiber Composite Actuator to Monotonically Increasing Excitation Voltage. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2006</b> , 17, 601-608	2.3	40
228	Dynamic testing of inflatable structures using smart materials. <i>Smart Materials and Structures</i> , <b>2002</b> , 11, 147-155	3.4	40
227	Analytical and experimental investigation of flexible longitudinal zigzag structures for enhanced multi-directional energy harvesting. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 035008	3.4	39
226	Finite element analysis and experimental study on dynamic properties of a composite beam with viscoelastic damping. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 6177-6191	3.9	38

225	Vibration localization of simplified mistuned cyclic structures undertaking external harmonic force. <i>Journal of Sound and Vibration</i> , <b>2003</b> , 261, 859-870	3.9	38
224	Lumped mass model of a 1D metastructure for vibration suppression with no additional mass. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 403, 75-89	3.9	37
223	Computation of Actuation Power Requirements for Smart Wings with Morphing Airfoils. <i>AIAA Journal</i> , <b>2005</b> , 43, 2481-2486	2.1	37
222	Performance enhancement of nonlinear asymmetric bistable energy harvesting from harmonic, random and human motion excitations. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 213903	3.4	37
221	A novel unmanned aircraft with solid-state control surfaces: Analysis and flight demonstration. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2013</b> , 24, 147-167	2.3	36
220	Dynamic analysis of a lattice structure by homogenization: Experimental validation. <i>Journal of Sound and Vibration</i> , <b>2008</b> , 316, 180-197	3.9	36
219	Design and Wind-Tunnel Analysis of a Fully Adaptive Aircraft Configuration <b>2004</b> ,		36
218	Adaptive Modified Positive Position Feedback for Active Vibration Control of Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2010</b> , 21, 571-580	2.3	35
217	Comparison of Control Laws for Vibration Suppression Based on Energy Consumption. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 795-809	2.3	35
216	An outlier analysis of MFC-based impedance sensing data for wireless structural health monitoring of railroad tracks. <i>Engineering Structures</i> , <b>2008</b> , 30, 2792-2799	4.7	35
215	On the nature of the interaction between structures and proof-mass actuators. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1990</b> , 13, 82-88	2.1	35
214	Control of a Space Rigidizable Inflatable Boom Using Macro-fiber Composite Actuators. <i>JVC/Journal of Vibration and Control</i> , <b>2007</b> , 13, 935-950	2	34
213	Energy harvesting for jet engine monitoring. <i>Nano Energy</i> , <b>2020</b> , 75, 104853	17.1	33
212	Circuit Analysis of Impedance-based Health Monitoring of Beams Using Spectral Elements. <i>Structural Health Monitoring</i> , <b>2007</b> , 6, 81-94	4.4	33
211	Anisotropic Laminar Piezocomposite Actuator Incorporating Machined PMNBT Single-crystal Fibers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2006</b> , 17, 15-28	2.3	33
210	Real-time multi-sensors measurement system with temperature effects compensation for impedance-based structural health monitoring. <i>Structural Health Monitoring</i> , <b>2012</b> , 11, 173-186	4.4	32
209	Integration of Smart Materials into Dynamics and Control of Inflatable Space Structures. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2001</b> , 12, 423-433	2.3	32
208	Modeling and control for vibration suppression of a flexible active structure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1995</b> , 18, 340-346	2.1	32

207	A multifunctional bistable laminate: Snap-through morphing enabled by broadband energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2018</b> , 29, 2528-2543	2.3	31
206	Modeling energy transport in a cantilevered Euler-Bernoulli beam actively vibrating in Newtonian fluid. <i>Mechanical Systems and Signal Processing</i> , <b>2014</b> , 45, 317-329	7.8	31
205	A distributed parameter electromechanical and statistical model for energy harvesting from turbulence-induced vibration. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 115003	3.4	31
204	Multi-input multi-output vibration testing of an inflatable torus. <i>Mechanical Systems and Signal Processing</i> , <b>2004</b> , 18, 1187-1201	7.8	31
203	Nonparametric Structural Damage Detection Algorithm for Ambient Vibration Response: Utilizing Artificial Neural Networks and Self-Organizing Maps. <i>Journal of Architectural Engineering</i> , <b>2016</b> , 22, 04016004	1.5	31
202	A piezoelectrically generated bistable laminate for morphing. <i>Materials Letters</i> , <b>2017</b> , 190, 123-126	3.3	30
201	Instantaneous baseline structural damage detection using a miniaturized piezoelectric guided waves system. <i>KSCE Journal of Civil Engineering</i> , <b>2010</b> , 14, 889-895	1.9	30
200	Shape Memory Alloy Hybrid Composite Plates for Shape and Stiffness Control. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2008</b> , 19, 609-619	2.3	30
199	The Application of Smart Structures to the Vibration Suppression Problem. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1992</b> , 3, 659-667	2.3	30
198	Piezoelectric Sensor-Based Health Monitoring of Railroad Tracks Using a Two-Step Support Vector Machine Classifier. <i>Journal of Infrastructure Systems</i> , <b>2008</b> , 14, 80-88	2.9	29
197	Hybrid damping models using the Golla-Hughes-McTavish method with internally balanced model reduction and output feedback. <i>Smart Materials and Structures</i> , <b>2000</b> , 9, 362-371	3.4	29
196	Modeling of the slewing control of a flexible structure. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1991</b> , 14, 736-742	2.1	29
195	Optimization of chiral lattice based metastructures for broadband vibration suppression using genetic algorithms. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 369, 50-62	3.9	28
194	Nonlinear Dynamic Characteristics of Variable Inclination Magnetically Coupled Piezoelectric Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2015</b> , 137,	1.6	28
193	Extension of Flutter Prediction Parameter for Multimode Flutter Systems. <i>Journal of Aircraft</i> , <b>2005</b> , 42, 285-288	1.6	28
192	Practical issues of activating self-repairing bolted joints. <i>Smart Materials and Structures</i> , <b>2004</b> , 13, 1414-1423	3.7	28
191	TEMPERATURE-DEPENDENT THERMOELASTIC PROPERTIES FOR MACRO FIBER COMPOSITE ACTUATORS. <i>Journal of Thermal Stresses</i> , <b>2004</b> , 27, 903-915	2.2	28
190	Low reflection effect by 3D printed functionally graded acoustic black holes. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 450, 96-108	3.9	27



189	A Novel Nonlinear Piezoelectric Energy Harvesting System Based on Linear-Element Coupling: Design, Modeling and Dynamic Analysis. <i>Sensors</i> , <b>2018</b> , 18,	3.8	27
188	Control and characterization of a bistable laminate generated with piezoelectricity. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 085007	3.4	27
187	Regular and chaotic vibration in a piezoelectric energy harvester with fractional damping. <i>European Physical Journal Plus</i> , <b>2015</b> , 130, 1	3.1	27
186	Simplified Vibration Serviceability Evaluation of Slender Monumental Stairs. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 04015017	3	27
185	Active Damping of Thermally Induced Vibrations. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1997</b> , 8, 678-685	2.3	27
184	Eigenstructure assignment using inverse eigenvalue methods. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1995</b> , 18, 625-627	2.1	27
183	Self-Organizing Maps for Structural Damage Detection: A Novel Unsupervised Vibration-Based Algorithm. <i>Journal of Performance of Constructed Facilities</i> , <b>2016</b> , 30, 04015043	2	26
182	Electromechanical modelling of a bistable plate with Macro Fiber Composites under nonlinear vibrations. <i>Journal of Sound and Vibration</i> , <b>2019</b> , 446, 326-342	3.9	26
181	Parameters for Modeling Stranded Cables as Structural Beams. <i>Experimental Mechanics</i> , <b>2014</b> , 54, 1613-1626	16.26	26
180	A Literature Review of Ultra-Light and Inflated Toroidal Satellite Components. <i>The Shock and Vibration Digest</i> , <b>2003</b> , 35, 171-181		26
179	Aeroelastic characteristics of linear and nonlinear piezo-aeroelastic energy harvester. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2014</b> , 25, 401-416	2.3	25
178	Aeroelastic Considerations on Shape Control of an Adaptive Wing. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2005</b> , 16, 1051-1056	2.3	25
177	Bending strength of piezoelectric ceramics and single crystals for multifunctional load-bearing applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2012</b> , 59, 1085-92	3.2	24
176	Macro-Fiber Composite Actuators for Flow Control of a Variable Camber Airfoil. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2011</b> , 22, 81-91	2.3	24
175	Temperature corrected sensor diagnostics for impedance-based SHM. <i>Journal of Sound and Vibration</i> , <b>2010</b> , 329, 2323-2336	3.9	24
174	On the Realisation of GHM Models in Viscoelasticity. <i>Journal of Intelligent Material Systems and Structures</i> , <b>1997</b> , 8, 986-993	2.3	24
173	MFC-Based Structural Health Monitoring Using a Miniaturized Impedance Measuring Chip for Corrosion Detection. <i>Research in Nondestructive Evaluation</i> , <b>2007</b> , 18, 139-150	0.9	24
172	Sensing and Monitoring for Stadium Structures: A Review of Recent Advances and a Forward Look. <i>Frontiers in Built Environment</i> , <b>2017</b> , 3,	2.2	23

171	Coupled out of plane vibrations of spiral beams for micro-scale applications. <i>Journal of Sound and Vibration</i> , <b>2010</b> , 329, 5584-5599	3.9	23
170	Nonlinear piezoelectric vibration absorbers. <i>Smart Materials and Structures</i> , <b>1996</b> , 5, 704-714	3.4	23
169	Finite Element Modeling and Active Control of an Inflated Torus Using Piezoelectric Devices. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2001</b> , 12, 819-833	2.3	23
168	Microprocessor controlled force actuator. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1988</b> , 11, 230-236	2.1	23
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