

Daniel J Inman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/571974/publications.pdf>

Version: 2024-02-01

324
papers

26,245
citations

15495

65
h-index

7340

152
g-index

335
all docs

335
docs citations

335
times ranked

10666
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Power Harvesting from Vibration Using Piezoelectric Materials. <i>The Shock and Vibration Digest</i> , 2004, 36, 197-205.	6.2	1,137
2	An experimentally validated bimorph cantilever model for piezoelectric energy harvesting from base excitations. <i>Smart Materials and Structures</i> , 2009, 18, 025009.	1.8	1,075
3	A Review of Morphing Aircraft. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 823-877.	1.4	1,030
4	1D convolutional neural networks and applications: A survey. <i>Mechanical Systems and Signal Processing</i> , 2021, 151, 107398.	4.4	1,005
5	A Distributed Parameter Electromechanical Model for Cantilevered Piezoelectric Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2008, 130, .	1.0	920
6	Overview of Piezoelectric Impedance-Based Health Monitoring and Path Forward. <i>The Shock and Vibration Digest</i> , 2003, 35, 451-463.	6.2	850
7	Real-time vibration-based structural damage detection using one-dimensional convolutional neural networks. <i>Journal of Sound and Vibration</i> , 2017, 388, 154-170.	2.1	827
8	A piezomagnetoelastic structure for broadband vibration energy harvesting. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	815
9	High-Performance Piezoelectric Energy Harvesters and Their Applications. <i>Joule</i> , 2018, 2, 642-697.	11.7	803
10	A Self-Sensing Piezoelectric Actuator for Collocated Control. <i>Journal of Intelligent Material Systems and Structures</i> , 1992, 3, 166-185.	1.4	690
11	Estimation of Electric Charge Output for Piezoelectric Energy Harvesting. <i>Strain</i> , 2004, 40, 49-58.	1.4	631
12	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> , 2021, 147, 107077.	4.4	569
13	Comparison of Piezoelectric Energy Harvesting Devices for Recharging Batteries. <i>Journal of Intelligent Material Systems and Structures</i> , 2005, 16, 799-807.	1.4	560
14	Broadband tristable energy harvester: Modeling and experiment verification. <i>Applied Energy</i> , 2014, 133, 33-39.	5.1	474
15	A piezoelectric bistable plate for nonlinear broadband energy harvesting. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	409
16	Impedance-Based Health Monitoring of Civil Structural Components. <i>Journal of Infrastructure Systems</i> , 2000, 6, 153-160.	1.0	372
17	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> , 2009, 20, 529-544.	1.4	351
18	1-D CNNs for structural damage detection: Verification on a structural health monitoring benchmark data. <i>Neurocomputing</i> , 2018, 275, 1308-1317.	3.5	327

#	ARTICLE	IF	CITATIONS
19	On the energy harvesting potential of piezoaeroelastic systems. Applied Physics Letters, 2010, 96, .	1.5	323
20	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.	2.1	317
21	On the optimal energy harvesting from a vibration source. Journal of Sound and Vibration, 2009, 320, 386-405.	2.1	311
22	Resistive Impedance Matching Circuit for Piezoelectric Energy Harvesting. Journal of Intelligent Material Systems and Structures, 2010, 21, 1293-1302.	1.4	297
23	An investigation into the performance of macro-fiber composites for sensing and structural vibration applications. Mechanical Systems and Signal Processing, 2004, 18, 683-697.	4.4	292
24	Powering pacemakers from heartbeat vibrations using linear and nonlinear energy harvesters. Applied Physics Letters, 2012, 100, 042901.	1.5	285
25	Piezoelectric energy harvesting from broadband random vibrations. Smart Materials and Structures, 2009, 18, 115005.	1.8	280
26	An electromechanical finite element model for piezoelectric energy harvester plates. Journal of Sound and Vibration, 2009, 327, 9-25.	2.1	271
27	Generation and Storage of Electricity from Power Harvesting Devices. Journal of Intelligent Material Systems and Structures, 2005, 16, 67-75.	1.4	238
28	Feasibility of using impedance-based damage assessment for pipeline structures. Earthquake Engineering and Structural Dynamics, 2001, 30, 1463-1474.	2.5	227
29	Nonlinear piezoelectricity in electroelastic energy harvesters: Modeling and experimental identification. Journal of Applied Physics, 2010, 108, .	1.1	199
30	An Integrated Health Monitoring Technique Using Structural Impedance Sensors. Journal of Intelligent Material Systems and Structures, 2000, 11, 448-455.	1.4	188
31	Concept and model of eddy current damper for vibration suppression of a beam. Journal of Sound and Vibration, 2005, 288, 1177-1196.	2.1	185
32	1-D Convolutional Neural Networks for Signal Processing Applications. , 2019, , .		167
33	A Review on Bistable Composite Laminates for Morphing and Energy Harvesting. Applied Mechanics Reviews, 2015, 67, .	4.5	164
34	Impact-induced high-energy orbits of nonlinear energy harvesters. Applied Physics Letters, 2015, 106, .	1.5	156
35	Structural health monitoring using piezoelectric impedance measurements. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 373-392.	1.6	155
36	Equivalent damping and frequency change for linear and nonlinear hybrid vibrational energy harvesting systems. Journal of Sound and Vibration, 2011, 330, 5583-5597.	2.1	154

#	ARTICLE	IF	CITATIONS
37	Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks. <i>Journal of Sound and Vibration</i> , 2018, 424, 158-172.	2.1	146
38	Vibration suppression of a cantilever beam using eddy current damper. <i>Journal of Sound and Vibration</i> , 2005, 284, 805-824.	2.1	140
39	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> , 2008, 19, 509-520.	1.4	140
40	Novel, Bidirectional, Variable-Camber Airfoil via Macro-Fiber Composite Actuators. <i>Journal of Aircraft</i> , 2010, 47, 303-314.	1.7	132
41	Frequency Self-tuning Scheme for Broadband Vibration Energy Harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 897-906.	1.4	132
42	Piezoaeroelastic Modeling and Analysis of a Generator Wing with Continuous and Segmented Electrodes. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 983-993.	1.4	130
43	Harmonic balance analysis of nonlinear tristable energy harvesters for performance enhancement. <i>Journal of Sound and Vibration</i> , 2016, 373, 223-235.	2.1	128
44	The relationship between positive position feedback and output feedback controllers. <i>Smart Materials and Structures</i> , 1999, 8, 285-291.	1.8	125
45	Nonlinear time-varying potential bistable energy harvesting from human motion. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	124
46	Modeling and Flight Control of Large-Scale Morphing Aircraft. <i>Journal of Aircraft</i> , 2007, 44, 1077-1087.	1.7	120
47	An experimental comparison between several active composite actuators for power generation. <i>Smart Materials and Structures</i> , 2006, 15, 1211-1216.	1.8	118
48	Active vibration control of flexible cantilever plates using piezoelectric materials and artificial neural networks. <i>Journal of Sound and Vibration</i> , 2016, 363, 33-53.	2.1	118
49	Snap-through of unsymmetric laminates using piezocomposite actuators. <i>Composites Science and Technology</i> , 2006, 66, 2442-2448.	3.8	116
50	Nonlinear nonconservative behavior and modeling of piezoelectric energy harvesters including proof mass effects. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 183-199.	1.4	115
51	Artificial piezoelectric grass for energy harvesting from turbulence-induced vibration. <i>Smart Materials and Structures</i> , 2012, 21, 105024.	1.8	110
52	Optimal configurations of bistable piezo-composites for energy harvesting. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	110
53	Impedance-Based Structural Health Monitoring with Artificial Neural Networks. <i>Journal of Intelligent Material Systems and Structures</i> , 2000, 11, 206-214.	1.4	109
54	Nonlinear Tensile and Shear Behavior of Macro Fiber Composite Actuators. <i>Journal of Composite Materials</i> , 2004, 38, 855-869.	1.2	105

#	ARTICLE	IF	CITATIONS
55	Aerodynamic and Static Aeroelastic Characteristics of a Variable-Span Morphing Wing. <i>Journal of Aircraft</i> , 2005, 42, 528-534.	1.7	104
56	Parametrically excited nonlinear piezoelectric compact wind turbine. <i>Renewable Energy</i> , 2013, 50, 977-987.	4.3	97
57	Some design considerations for active and passive constrained layer damping treatments. <i>Smart Materials and Structures</i> , 1996, 5, 301-313.	1.8	96
58	Nonlinear vibration energy harvesting and vibration suppression technologies: Designs, analysis, and applications. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	95
59	Electromechanical Modeling of the Low-Frequency Zigzag Micro-Energy Harvester. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 271-282.	1.4	89
60	Fault Detection and Severity Identification of Ball Bearings by Online Condition Monitoring. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 8136-8147.	5.2	87
61	Multifunctional self-charging structures using piezoceramics and thin-film batteries. <i>Smart Materials and Structures</i> , 2010, 19, 115021.	1.8	85
62	Recharging Batteries using Energy Harvested from Thermal Gradients. <i>Journal of Intelligent Material Systems and Structures</i> , 2007, 18, 3-10.	1.4	75
63	Reference-Free Damage Detection Using Instantaneous Baseline Measurements. <i>AIAA Journal</i> , 2009, 47, 1952-1964.	1.5	74
64	Gossamer Spacecraft: Recent Trends in Design, Analysis, Experimentation, and Control. <i>Journal of Spacecraft and Rockets</i> , 2006, 43, 10-24.	1.3	72
65	Sensor Validation for Smart Structures. <i>Journal of Intelligent Material Systems and Structures</i> , 1999, 10, 973-982.	1.4	68
66	Thermal sensitivity of Lamb waves for structural health monitoring applications. <i>Ultrasonics</i> , 2013, 53, 677-685.	2.1	66
67	Lumped mass model of a 1D metastructure for vibration suppression with no additional mass. <i>Journal of Sound and Vibration</i> , 2017, 403, 75-89.	2.1	66
68	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> , 2008, 93, .	1.5	65
69	A survey of control strategies for simultaneous vibration suppression and energy harvesting via piezoceramics. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 2021-2037.	1.4	64
70	Vibration Control through Passive Constrained Layer Damping and Active Control. <i>Journal of Intelligent Material Systems and Structures</i> , 1997, 8, 663-677.	1.4	63
71	Performance enhancement of nonlinear asymmetric bistable energy harvesting from harmonic, random and human motion excitations. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	63
72	Structural health monitoring using electro-mechanical impedance sensors. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2008, 31, 714-724.	1.7	62

#	ARTICLE	IF	CITATIONS
73	Energy harvesting for jet engine monitoring. Nano Energy, 2020, 75, 104853.	8.2	62
74	Enhanced Piezoelectric Shunt Design. Shock and Vibration, 2003, 10, 127-133.	0.3	59
75	Electromechanical comparison of cantilevered beams with multifunctional piezoceramic devices. Mechanical Systems and Signal Processing, 2012, 27, 763-777.	4.4	59
76	Modeling and analysis of a cracked composite cantilever beam vibrating in coupled bending and torsion. Journal of Sound and Vibration, 2005, 284, 23-49.	2.1	58
77	Macro-Fiber Composite actuated simply supported thin airfoils. Smart Materials and Structures, 2010, 19, 055010.	1.8	57
78	Macro-fiber composite actuators for a swept wing unmanned aircraft. Aeronautical Journal, 2009, 113, 385-395.	1.1	56
79	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.	2.1	56
80	Chaos in the fractionally damped broadband piezoelectric energy generator. Nonlinear Dynamics, 2015, 80, 1705-1719.	2.7	56
81	Non-contact vibration control system employing an active eddy current damper. Journal of Sound and Vibration, 2007, 305, 596-613.	2.1	55
82	Multifunctional Unmanned Aerial Vehicle Wing Spar for Low-Power Generation and Storage. Journal of Aircraft, 2012, 49, 292-301.	1.7	55
83	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.	1.2	55
84	Design and Wind-Tunnel Analysis of a Fully Adaptive Aircraft Configuration. , 2004, , .		54
85	Resonant manifestation of intrinsic nonlinearity within electroelastic micropower generators. Applied Physics Letters, 2010, 97, .	1.5	54
86	Time-domain analysis of piezoelectric impedance-based structural health monitoring using multilevel wavelet decomposition. Mechanical Systems and Signal Processing, 2011, 25, 1550-1558.	4.4	53
87	Analytical and experimental investigation of flexible longitudinal zigzag structures for enhanced multi-directional energy harvesting. Smart Materials and Structures, 2017, 26, 035008.	1.8	53
88	A multifunctional bistable laminate: Snap-through morphing enabled by broadband energy harvesting. Journal of Intelligent Material Systems and Structures, 2018, 29, 2528-2543.	1.4	53
89	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, .	1.0	52
90	A novel unmanned aircraft with solid-state control surfaces: Analysis and flight demonstration. Journal of Intelligent Material Systems and Structures, 2013, 24, 147-167.	1.4	51

#	ARTICLE	IF	CITATIONS
91	Dynamic testing of inflatable structures using smart materials. <i>Smart Materials and Structures</i> , 2002, 11, 147-155.	1.8	50
92	Nonlinear Response of the Macro Fiber Composite Actuator to Monotonically Increasing Excitation Voltage. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 601-608.	1.4	50
93	Parametric Study of Zigzag Microstructure for Vibrational Energy Harvesting. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 145-160.	1.7	50
94	Reduction of Observation Spillover in Vibration Suppression Using a Sliding Mode Observer. <i>JVC/Journal of Vibration and Control</i> , 2001, 7, 1087-1105.	1.5	49
95	Vibration localization of simplified mistuned cyclic structures undertaking external harmonic force. <i>Journal of Sound and Vibration</i> , 2003, 261, 859-870.	2.1	49
96	Non-linear vibrations of parametrically excited cantilever beams subjected to non-linear delayed-feedback control. <i>International Journal of Non-Linear Mechanics</i> , 2008, 43, 801-812.	1.4	49
97	Optimization of chiral lattice based metastructures for broadband vibration suppression using genetic algorithms. <i>Journal of Sound and Vibration</i> , 2016, 369, 50-62.	2.1	49
98	Electromechanical modelling of a bistable plate with Macro Fiber Composites under nonlinear vibrations. <i>Journal of Sound and Vibration</i> , 2019, 446, 326-342.	2.1	49
99	On the nature of the interaction between structures and proof-mass actuators. <i>Journal of Guidance, Control, and Dynamics</i> , 1990, 13, 82-88.	1.6	48
100	Design and modeling of a flexible longitudinal zigzag structure for enhanced vibration energy harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 367-380.	1.4	48
101	Computation of Actuation Power Requirements for Smart Wings with Morphing Airfoils. <i>AIAA Journal</i> , 2005, 43, 2481-2486.	1.5	45
102	Low reflection effect by 3D printed functionally graded acoustic black holes. <i>Journal of Sound and Vibration</i> , 2019, 450, 96-108.	2.1	45
103	Modeling and control for vibration suppression of a flexible active structure. <i>Journal of Guidance, Control, and Dynamics</i> , 1995, 18, 340-346.	1.6	44
104	Adaptive Modified Positive Position Feedback for Active Vibration Control of Structures. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 571-580.	1.4	44
105	Dynamic analysis of a lattice structure by homogenization: Experimental validation. <i>Journal of Sound and Vibration</i> , 2008, 316, 180-197.	2.1	43
106	An outlier analysis of MFC-based impedance sensing data for wireless structural health monitoring of railroad tracks. <i>Engineering Structures</i> , 2008, 30, 2792-2799.	2.6	42
107	Integration of Smart Materials into Dynamics and Control of Inflatable Space Structures. <i>Journal of Intelligent Material Systems and Structures</i> , 2001, 12, 423-433.	1.4	41
108	Practical issues of activating self-repairing bolted joints. <i>Smart Materials and Structures</i> , 2004, 13, 1414-1423.	1.8	41

#	ARTICLE	IF	CITATIONS
109	Comparison of Control Laws for Vibration Suppression Based on Energy Consumption. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 795-809.	1.4	40
110	Real-time multi-sensors measurement system with temperature effects compensation for impedance-based structural health monitoring. <i>Structural Health Monitoring</i> , 2012, 11, 173-186.	4.3	40
111	Nonparametric Structural Damage Detection Algorithm for Ambient Vibration Response: Utilizing Artificial Neural Networks and Self-Organizing Maps. <i>Journal of Architectural Engineering</i> , 2016, 22, .	0.8	40
112	A piezoelectrically generated bistable laminate for morphing. <i>Materials Letters</i> , 2017, 190, 123-126.	1.3	40
113	Modeling of the slewing control of a flexible structure. <i>Journal of Guidance, Control, and Dynamics</i> , 1991, 14, 736-742.	1.6	39
114	Anisotropic Laminar Piezocomposite Actuator Incorporating Machined PMN-PT Single-crystal Fibers. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 15-28.	1.4	39
115	Control of a Space Rigidizable Inflatable Boom Using Macro-fiber Composite Actuators. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 935-950.	1.5	39
116	Modeling energy transport in a cantilevered Euler-Bernoulli beam actively vibrating in Newtonian fluid. <i>Mechanical Systems and Signal Processing</i> , 2014, 45, 317-329.	4.4	39
117	Eigenstructure assignment using inverse eigenvalue methods. <i>Journal of Guidance, Control, and Dynamics</i> , 1995, 18, 625-627.	1.6	38
118	Circuit Analysis of Impedance-based Health Monitoring of Beams Using Spectral Elements. <i>Structural Health Monitoring</i> , 2007, 6, 81-94.	4.3	38
119	Shape Memory Alloy Hybrid Composite Plates for Shape and Stiffness Control. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 609-619.	1.4	38
120	A distributed parameter electromechanical and statistical model for energy harvesting from turbulence-induced vibration. <i>Smart Materials and Structures</i> , 2014, 23, 115003.	1.8	38
121	A review of avian-inspired morphing for UAV flight control. <i>Progress in Aerospace Sciences</i> , 2022, 132, 100825.	6.3	38
122	Bending strength of piezoelectric ceramics and single crystals for multifunctional load-bearing applications. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2012, 59, 1085-1092.	1.7	37
123	Nonlinear Dynamic Characteristics of Variable Inclination Magnetically Coupled Piezoelectric Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.0	37
124	Experimental investigation into the nonlinear dynamics of a bistable laminate. <i>Nonlinear Dynamics</i> , 2019, 95, 3019-3039.	2.7	37
125	The Application of Smart Structures to the Vibration Suppression Problem. <i>Journal of Intelligent Material Systems and Structures</i> , 1992, 3, 659-667.	1.4	36
126	Self-Organizing Maps for Structural Damage Detection: A Novel Unsupervised Vibration-Based Algorithm. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	1.0	36

#	ARTICLE	IF	CITATIONS
127	Microprocessor controlled force actuator. <i>Journal of Guidance, Control, and Dynamics</i> , 1988, 11, 230-236.	1.6	35
128	Nonlinear piezoelectric vibration absorbers. <i>Smart Materials and Structures</i> , 1996, 5, 704-714.	1.8	35
129	Active Damping of Thermally Induced Vibrations. <i>Journal of Intelligent Material Systems and Structures</i> , 1997, 8, 678-685.	1.4	35
130	Multi-input multi-output vibration testing of an inflatable torus. <i>Mechanical Systems and Signal Processing</i> , 2004, 18, 1187-1201.	4.4	35
131	Extension of Flutter Prediction Parameter for Multimode Flutter Systems. <i>Journal of Aircraft</i> , 2005, 42, 285-288.	1.7	35
132	Instantaneous baseline structural damage detection using a miniaturized piezoelectric guided waves system. <i>KSCE Journal of Civil Engineering</i> , 2010, 14, 889-895.	0.9	35
133	Temperature corrected sensor diagnostics for impedance-based SHM. <i>Journal of Sound and Vibration</i> , 2010, 329, 2323-2336.	2.1	35
134	Regular and chaotic vibration in a piezoelectric energy harvester with fractional damping. <i>European Physical Journal Plus</i> , 2015, 130, 1.	1.2	35
135	A Novel Nonlinear Piezoelectric Energy Harvesting System Based on Linear-Element Coupling: Design, Modeling and Dynamic Analysis. <i>Sensors</i> , 2018, 18, 1492.	2.1	34
136	Hybrid damping models using the Golla-Hughes-McTavish method with internally balanced model reduction and output feedback. <i>Smart Materials and Structures</i> , 2000, 9, 362-371.	1.8	33
137	Piezoelectric Sensor-Based Health Monitoring of Railroad Tracks Using a Two-Step Support Vector Machine Classifier. <i>Journal of Infrastructure Systems</i> , 2008, 14, 80-88.	1.0	33
138	Control and characterization of a bistable laminate generated with piezoelectricity. <i>Smart Materials and Structures</i> , 2017, 26, 085007.	1.8	33
139	On the Realisation of GHM Models in Viscoelasticity. <i>Journal of Intelligent Material Systems and Structures</i> , 1997, 8, 986-993.	1.4	32
140	TEMPERATURE-DEPENDENT THERMOELASTIC PROPERTIES FOR MACRO FIBER COMPOSITE ACTUATORS. <i>Journal of Thermal Stresses</i> , 2004, 27, 903-915.	1.1	32
141	Parameters for Modeling Stranded Cables as Structural Beams. <i>Experimental Mechanics</i> , 2014, 54, 1613-1626.	1.1	32
142	Birds can transition between stable and unstable states via wing morphing. <i>Nature</i> , 2022, 603, 648-653.	18.7	32
143	MFC-Based Structural Health Monitoring Using a Miniaturized Impedance Measuring Chip for Corrosion Detection. <i>Research in Nondestructive Evaluation</i> , 2007, 18, 139-150.	0.5	31
144	Iterated square root unscented Kalman filter for nonlinear states and parameters estimation: three DOF damped system. <i>Journal of Civil Structural Health Monitoring</i> , 2015, 5, 493-508.	2.0	31

#	ARTICLE	IF	CITATIONS
145	An Integrated Health Monitoring Technique Using Structural Impedance Sensors. Journal of Intelligent Material Systems and Structures, 2000, 11, 448-455.	1.4	31
146	Review of Pedestrian Load Models for Vibration Serviceability Assessment of Floor Structures. Vibration, 2019, 2, 1-24.	0.9	30
147	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.	4.4	30
148	A Literature Review of Ultra-Light and Inflated Toroidal Satellite Components. The Shock and Vibration Digest, 2003, 35, 171-181.	6.2	30
149	Finite Element Modeling and Active Control of an Inflated Torus Using Piezoelectric Devices. Journal of Intelligent Material Systems and Structures, 2001, 12, 819-833.	1.4	29
150	Shape Memory Alloy in Tension and Compression and its Application as Clamping-Force Actuator in a Bolted Joint: Part 1 – Experimentation. Journal of Intelligent Material Systems and Structures, 2004, 15, 577-587.	1.4	29
151	Aeroelastic Considerations on Shape Control of an Adaptive Wing. Journal of Intelligent Material Systems and Structures, 2005, 16, 1051-1056.	1.4	29
152	Sensing and Monitoring for Stadium Structures: A Review of Recent Advances and a Forward Look. Frontiers in Built Environment, 2017, 3, .	1.2	29
153	Simplified Vibration Serviceability Evaluation of Slender Monumental Stairs. Journal of Structural Engineering, 2015, 141, .	1.7	28
154	Macro-Fiber Composite Actuators for Flow Control of a Variable Camber Airfoil. Journal of Intelligent Material Systems and Structures, 2011, 22, 81-91.	1.4	27
155	Vibration Suppression of a Large Beam Structure Using Tuned Mass Damper and Eddy Current Damping. Shock and Vibration, 2014, 2014, 1-10.	0.3	27
156	Laser induced graphene in fiberglass-reinforced composites for strain and damage sensing. Composites Science and Technology, 2020, 199, 108367.	3.8	27
157	Continuum Modeling of an Innovative Space-Based Radar Antenna Truss. Journal of Aerospace Engineering, 2006, 19, 227-240.	0.8	26
158	Coupled out of plane vibrations of spiral beams for micro-scale applications. Journal of Sound and Vibration, 2010, 329, 5584-5599.	2.1	26
159	Low-Cost Integrable Tuning-Free Converter for Piezoelectric Energy Harvesting Optimization. IEEE Transactions on Power Electronics, 2010, 25, 1811-1819.	5.4	26
160	Aeroelastic characteristics of linear and nonlinear piezo-aeroelastic energy harvester. Journal of Intelligent Material Systems and Structures, 2014, 25, 401-416.	1.4	26
161	Dynamic Forces Induced by a Single Pedestrian: A Literature Review. Applied Mechanics Reviews, 2017, 69, .	4.5	26
162	Optimization of linear zigzag insert metastructures for low-frequency vibration attenuation using genetic algorithms. Mechanical Systems and Signal Processing, 2017, 84, 625-641.	4.4	25

#	ARTICLE	IF	CITATIONS
163	Experimental validation of a FRF-based model updating method. JVC/Journal of Vibration and Control, 2018, 24, 1570-1583.	1.5	25
164	Stall Recovery of a Morphing Wing via Extended Nonlinear Lifting-Line Theory. AIAA Journal, 2017, 55, 2956-2963.	1.5	24
165	Performance analysis of simplified Fuzzy ARTMAP and Probabilistic Neural Networks for identifying structural damage growth. Applied Soft Computing Journal, 2017, 52, 53-63.	4.1	24
166	In Situ Damage Detection for Fiber-Reinforced Composites Using Integrated Zinc Oxide Nanowires. Advanced Functional Materials, 2018, 28, 1802846.	7.8	24
167	Experimental verification of intelligent fault detection in rotor blades. International Journal of Systems Science, 2000, 31, 1375-1379.	3.7	23
168	Manufacturing and Cure Kinetics Modeling for Macro Fiber Composite Actuators. Journal of Reinforced Plastics and Composites, 2004, 23, 1741-1754.	1.6	23
169	Nondimensional Modeling of Ducted-Fan Aerodynamics. Journal of Aircraft, 2012, 49, 126-140.	1.7	23
170	Continuous crack modeling in piezoelectrically driven vibrations of an Euler-Bernoulli beam. JVC/Journal of Vibration and Control, 2013, 19, 341-355.	1.5	23
171	Modeling vibration response and damping of cables and cabled structures. Journal of Sound and Vibration, 2015, 336, 240-256.	2.1	23
172	Electrical modeling of Piezoelectric ceramics for analysis and evaluation of sensory systems. , 2008, , .		22
173	A new approach for structural damage detection exploring the singular spectrum analysis. Journal of Intelligent Material Systems and Structures, 2017, 28, 1160-1174.	1.4	22
174	Impedance-Based Structural Health Monitoring with Artificial Neural Networks. Journal of Intelligent Material Systems and Structures, 2000, 11, 206-214.	1.4	22
175	Modal decoupling conditions for distributed control of flexible structures. Journal of Guidance, Control, and Dynamics, 1984, 7, 750-752.	1.6	21
176	Transient Performance of Energy Harvesting Strategies under Constant Force Magnitude Excitation. Journal of Intelligent Material Systems and Structures, 2010, 21, 1279-1291.	1.4	21
177	Synergistic smart morphing aileron: Experimental quasi-static performance characterization. Journal of Intelligent Material Systems and Structures, 2015, 26, 1179-1190.	1.4	21
178	Vibration annoyance assessment of train induced excitations from tunnels embedded in rock. Science of the Total Environment, 2020, 711, 134528.	3.9	21
179	Simultaneous Active Damping and Health Monitoring of Aircraft Panels. Journal of Intelligent Material Systems and Structures, 2001, 12, 775-783.	1.4	20
180	Experimental Validation for a Multifunctional Wing Spar With Sensing, Harvesting, and Gust Alleviation Capabilities. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1289-1299.	3.7	20

#	ARTICLE	IF	CITATIONS
181	Electromagnetic energy harvester for monitoring wind turbine blades. <i>Wind Energy</i> , 2014, 17, 869-876.	1.9	20
182	Autonomous hardware development for impedance-based structural health monitoring. <i>Smart Structures and Systems</i> , 2008, 4, 305-318.	1.9	20
183	Vibration Testing and Finite Element Analysis of an Inflatable Structure. <i>AIAA Journal</i> , 2003, 41, 1556-1563.	1.5	19
184	Modeling and Application of Eddy Current Damper for Suppression of Membrane Vibrations. <i>AIAA Journal</i> , 2006, 44, 541-549.	1.5	19
185	Dynamic Effects of a Radar Panel Mounted on a Truss Satellite. <i>AIAA Journal</i> , 2007, 45, 1642-1654.	1.5	18
186	Theoretical and Experimental Analysis of Hysteresis in Piezocomposite Airfoils Using Preisach Model. <i>Journal of Aircraft</i> , 2011, 48, 1935-1947.	1.7	18
187	Spectrally formulated modeling of a cable-harnessed structure. <i>Journal of Sound and Vibration</i> , 2014, 333, 3286-3304.	2.1	18
188	Recent Issues on Stadium Monitoring and Serviceability: A Review. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 411-416.	0.3	18
189	A numerical and experimental investigation of a special type of floating-slab tracks. <i>Engineering Structures</i> , 2020, 215, 110734.	2.6	18
190	Laser induced graphene for in situ damage sensing in aramid fiber reinforced composites. <i>Composites Science and Technology</i> , 2021, 201, 108541.	3.8	18
191	Advantages of Slewing an Active Structure. <i>Journal of Intelligent Material Systems and Structures</i> , 1990, 1, 261-272.	1.4	17
192	Modeling and control simulations of a slewing frame containing active members. <i>Smart Materials and Structures</i> , 1993, 2, 82-95.	1.8	17
193	A Comparison between SISO and MIMO Modal Analysis Techniques on a Membrane Mirror Satellite. <i>Journal of Intelligent Material Systems and Structures</i> , 2005, 16, 273-282.	1.4	17
194	Experimental and Theoretical Behavior of Self-healing Bolted Joints. <i>Journal of Intelligent Material Systems and Structures</i> , 2006, 17, 499-509.	1.4	17
195	Influence of Excitation Signal on Impedance-based Structural Health Monitoring. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 1409-1416.	1.4	17
196	Experimental testing of spanwise morphing trailing edge concept. <i>Proceedings of SPIE</i> , 2013, , .	0.8	17
197	Pointing control and vibration suppression of a slewing flexible frame. <i>Journal of Guidance, Control, and Dynamics</i> , 1994, 17, 529-536.	1.6	16
198	Aeroelastic Optimization of Adaptive Bumps for Yaw Control. <i>Journal of Aircraft</i> , 2004, 41, 175-185.	1.7	16

#	ARTICLE	IF	CITATIONS
199	Detection of Corrosion Using Piezoelectric Impedance-Based Structural Health Monitoring. AIAA Journal, 2006, 44, 2800-2803.	1.5	16
200	Investigating the thermally induced acoustoelastic effect in isotropic media with Lamb waves. Journal of the Acoustical Society of America, 2014, 136, 2532-2543.	0.5	16
201	Amplitude-Dependent Damping in Vibration Serviceability: Case of a Laboratory Footbridge. Journal of Architectural Engineering, 2016, 22, 04016005.	0.8	16
202	Quantification of Structural Damage with Self-Organizing Maps. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 47-57.	0.3	16
203	Novel Framework for Vibration Serviceability Assessment of Stadium Grandstands Considering Durations of Vibrations. Journal of Structural Engineering, 2018, 144, .	1.7	16
204	Gull-inspired joint-driven wing morphing allows adaptive longitudinal flight control. Journal of the Royal Society Interface, 2021, 18, 20210132.	1.5	16
205	Crack-induced Changes in Divergence and Flutter of Cantilevered Composite Panels. Structural Health Monitoring, 2005, 4, 377-392.	4.3	15
206	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	15
207	Kappa-PSO-FAN based method for damage identification on composite structural health monitoring. Expert Systems With Applications, 2018, 95, 1-13.	4.4	15
208	Ultra low-power active wireless sensor for structural health monitoring. Smart Structures and Systems, 2010, 6, 675-687.	1.9	15
209	Operational modal analysis and finite element model updating of a 230m tall tower. Structures, 2022, 37, 154-167.	1.7	15
210	Classical Normal Modes in Asymmetric Nonconservative Dynamic Systems. AIAA Journal, 1984, 22, 1012-1015.	1.5	14
211	Square-root state estimation for second-order large space structures models. Journal of Guidance, Control, and Dynamics, 1989, 12, 698-708.	1.6	14
212	Detection and localization of fatigue crack with nonlinear instantaneous baseline. Journal of Intelligent Material Systems and Structures, 2016, 27, 1577-1583.	1.4	14
213	A tale of two tails: developing an avian inspired morphing actuator for yaw control and stability. Bioinspiration and Biomimetics, 2018, 13, 026008.	1.5	14
214	A methodological approach towards evaluating structural damage severity using 1D CNNs. Structures, 2021, 34, 4435-4446.	1.7	14
215	Lightweight High Voltage Electronic Circuits for Piezoelectric Composite Actuators. Journal of Intelligent Material Systems and Structures, 2010, 21, 1417-1426.	1.4	13
216	Ducted-Fan Force and Moment Control via Steady and Synthetic Jets. Journal of Aircraft, 2011, 48, 514-526.	1.7	13

#	ARTICLE	IF	CITATIONS
217	A novel video-vibration monitoring system for walking pattern identification on floors. <i>Advances in Engineering Software</i> , 2020, 139, 102710.	1.8	13
218	Small-scale Piezoelectric Energy Harvesting Devices Using Low Energy Density Sources. <i>Journal of the Korean Physical Society</i> , 2010, 57, 947-951.	0.3	13
219	Two-Dimensional Active Wing/Store Flutter Suppression Using H Theory. <i>Journal of Guidance, Control, and Dynamics</i> , 1997, 20, 949-955.	1.6	12
220	Shape Memory Alloy in Tension and Compression and its Application as Clamping Force Actuator in a Bolted Joint: Part 2 " Modeling. <i>Journal of Intelligent Material Systems and Structures</i> , 2004, 15, 589-600.	1.4	12
221	Crack-Induced Effects on Aeroelasticity of an Unswept Composite Wing. <i>AIAA Journal</i> , 2007, 45, 542-551.	1.5	12
222	Modeling and Control of a Membrane Strip Using a Single Piezoelectric Bimorph. <i>JVC/Journal of Vibration and Control</i> , 2009, 15, 391-414.	1.5	12
223	Piezoceramic Composite Actuators for Flow Control in Low Reynolds Number Airflow. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 1201-1212.	1.4	12
224	Effect of Bottom Chord Extensions on the Static Flexural Stiffness of Open-Web Steel Joists. <i>Journal of Performance of Constructed Facilities</i> , 2012, 26, 620-632.	1.0	12
225	Analysis of energy conversion in switched-voltage control with arbitrary switching frequency. <i>Sensors and Actuators A: Physical</i> , 2012, 174, 162-172.	2.0	12
226	Vibrations Serviceability of a Medical Facility Floor for Sensitive Equipment Replacement: Evaluation with Sparse In Situ Data. <i>Practice Periodical on Structural Design and Construction</i> , 2019, 24, .	0.7	12
227	Dehydrofluorinated PVDF for structural health monitoring in fiber reinforced composites. <i>Composites Science and Technology</i> , 2021, 214, 108982.	3.8	12
228	Optimal Design of Piezoelectric Materials for Vibration Damping in Mechanical Systems. <i>Journal of Intelligent Material Systems and Structures</i> , 1999, 10, 945-955.	1.4	11
229	An Experimental Evaluation of Smart Damping Materials for Reducing Structural Noise and Vibrations. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2001, 123, 533-535.	1.0	11
230	Coupled Bending-Bending-Torsion Vibration of a Rotating Pre-Twisted Beam with Aerofoil Cross-Section and Flexible Root by Finite Element Method. <i>Shock and Vibration</i> , 2004, 11, 637-646.	0.3	11
231	Actuator-Work Concepts Applied to Unconventional Aerodynamic Control Devices. <i>Journal of Aircraft</i> , 2007, 44, 1459-1468.	1.7	11
232	Nonlinear Control of a Membrane Mirror Strip Actuated Axially and in Bending. <i>AIAA Journal</i> , 2009, 47, 484-493.	1.5	11
233	A time-varying identification method for mixed response measurements. <i>Journal of Sound and Vibration</i> , 2009, 319, 850-868.	2.1	11
234	Modal Parameter Variations due to Joist Bottom Chord Extension Installations on Laboratory Footbridges. <i>Journal of Performance of Constructed Facilities</i> , 2015, 29, .	1.0	11

#	ARTICLE	IF	CITATIONS
235	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.	0.8	11
236	Nonlinear Damping in Floor Vibrations Serviceability: Verification on a Laboratory Structure. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 139-145.	0.3	11
237	Suppression of Cross-Well Oscillations for Bistable Composites Through Potential Well Elimination. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.0	11
238	Vibration Suppression Via Smart Structures Across a Temperature Range. Journal of Intelligent Material Systems and Structures, 2001, 12, 191-203.	1.4	10
239	Sliding Mode Control of a Gossamer Structure Using Smart Materials. JVC/Journal of Vibration and Control, 2004, 10, 1199-1220.	1.5	10
240	Vibro-acoustics of a pressurized optical membrane. Mechanical Systems and Signal Processing, 2012, 30, 373-392.	4.4	10
241	Aerodynamic efficiency of gliding birds vs comparable UAVs: a review. Bioinspiration and Biomimetics, 2021, 16, 031001.	1.5	10
242	Using passive techniques for vibration damping in mechanical systems. Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences, 2000, 22, 411-421.	0.1	10
243	Robust identification and vibration suppression of a flexible structure. Journal of Guidance, Control, and Dynamics, 1994, 17, 921-928.	1.6	9
244	Design of a reduced-order H _∞ controller for smart structure satellite applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2001, 359, 2251-2269.	1.6	9
245	Mechanical effect of combined piezoelectric and electromagnetic energy harvesting. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 261-272.	0.3	9
246	Vibration Damping Mechanism of Fiber-Reinforced Composites with Integrated Piezoelectric Nanowires. ACS Applied Materials & Interfaces, 2019, 11, 47373-47381.	4.0	9
247	Structural and aeroelastic modeling of general planform wings with morphing airfoils. AIAA Journal, 2002, 40, 628-637.	1.5	9
248	Improving the Damping Properties of Composites Using Ferroelectric Inclusions. Journal of Intelligent Material Systems and Structures, 2005, 16, 463-468.	1.4	8
249	Experimentally Validated Model of a Membrane Strip with Multiple Actuators. Journal of Spacecraft and Rockets, 2007, 44, 1140-1152.	1.3	8
250	Bakeout Effects on Dynamic Response of Spaceflight Cables. Journal of Spacecraft and Rockets, 2014, 51, 1721-1734.	1.3	8
251	Synergistic Smart Morphing Aileron: Aero-structural Performance Analysis. , 2014, , .		8
252	Miniature Contactless Piezoelectric Wind Turbine. Integrated Ferroelectrics, 2015, 159, 1-13.	0.3	8

#	ARTICLE	IF	CITATIONS
253	Real-time structural health monitoring of fatigue crack on aluminum beam using an impedance-based portable device. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 3152-3162.	1.4	8
254	Unreinforced Masonry Façade Assessment of a Historic Building for Excessive Displacements Due to a Nearby Subway Construction. <i>Practice Periodical on Structural Design and Construction</i> , 2019, 24, .	0.7	8
255	A Preliminary Study on Piezo-aeroelastic Energy Harvesting Using a Nonlinear Trailing-Edge Flap. <i>International Journal of Aeronautical and Space Sciences</i> , 2015, 16, 407-417.	1.0	8
256	Comparison of Linear and Nonlinear Control of a Slewing Beam. <i>JVC/Journal of Vibration and Control</i> , 2000, 6, 309-322.	1.5	7
257	Self-filtering oscillations in carbon nanotube hetero-junctions. <i>Nanotechnology</i> , 2011, 22, 465501.	1.3	7
258	Analytical modeling of orthogonal spiral structures. <i>Smart Materials and Structures</i> , 2016, 25, 115017.	1.8	7
259	Simplified fuzzy ARTMAP network-based method for assessment of structural damage applied to composite structures. <i>Journal of Composite Materials</i> , 2016, 50, 3501-3514.	1.2	7
260	Analysis of floor vibration evaluation methods using a large database of floors framed with W-Shaped members subjected to walking excitation. <i>Journal of Constructional Steel Research</i> , 2020, 164, 105764.	1.7	7
261	Load alleviation of feather-inspired compliant airfoils for instantaneous flow control. <i>Bioinspiration and Biomimetics</i> , 2020, 15, 056010.	1.5	7
262	An Overview on Floor Vibration Serviceability Evaluation Methods with a Large Database of Recorded Floor Data. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2021, , 91-101.	0.3	7
263	Active Control of Store-Induced Flutter in Incompressible Flow. <i>Journal of Aircraft</i> , 1998, 35, 454-461.	1.7	6
264	Synergistic Smart Morphing Alleron: Capabilities Identification. , 2016, , .		6
265	Structural Damage Detection in Civil Engineering with Machine Learning: Current State of the Art. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022, , 223-229.	0.3	6
266	An Overview of Deep Learning Methods Used in Vibration-Based Damage Detection in Civil Engineering. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022, , 93-98.	0.3	6
267	Nonlinear modal control method. <i>Journal of Guidance, Control, and Dynamics</i> , 1995, 18, 433-440.	1.6	5
268	Decentralized sliding mode control for flexible link robots. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 1996, 17, 61-79.	2.0	5
269	A C1 finite element capable of interlaminar stress continuity. <i>Computers and Structures</i> , 2001, 79, 973-986.	2.4	5
270	Coupled Bending-Bending-Torsion Vibration of a Pre-Twisted Beam with Aerofoil Cross-Section by the Finite Element Method. <i>Shock and Vibration</i> , 2003, 10, 223-230.	0.3	5

#	ARTICLE	IF	CITATIONS
271	A Self-contained Active Sensor System for Health Monitoring of Civil Infrastructures. , 2006, , .		5
272	Thermal protection for a self-sensing piezoelectric control system. Smart Materials and Structures, 2007, 16, 2492-2500.	1.8	5
273	Digital Wideband Excitation Technique for Impedance-Based Structural Health Monitoring Systems. , 2007, , .		5
274	An Approach to Force-Feedback Control with Traveling Wave Ultrasonic Motor. Journal of Intelligent Material Systems and Structures, 2009, 20, 1393-1400.	1.4	5
275	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.	1.4	5
276	Experimental validation of the vibro-acoustic model of a pressurized membrane. Mechanical Systems and Signal Processing, 2014, 45, 330-345.	4.4	5
277	The J_d number: An empirical constant for predicting dual cantilever flutter velocity. Applied Physics Letters, 2015, 106, .	1.5	5
278	Spanwise morphing trailing edge on a finite wing. Proceedings of SPIE, 2015, , .	0.8	5
279	Residual thermal effects in macro fiber composite actuators exposed to persistent temperature cycling. Applied Physics Letters, 2016, 108, .	1.5	5
280	Dimensional Synthesis of a MultiLoop Linkage With Single Input Using Parameterized Curves. Journal of Mechanisms and Robotics, 2017, 9, .	1.5	5
281	Characterizing the pyroelectric coefficient for macro-fiber composites. Smart Materials and Structures, 2018, 27, 115001.	1.8	5
282	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	5
283	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.	0.8	5
284	Active shape change of an SMA hybrid composite plate. Smart Structures and Systems, 2010, 6, 91-100.	1.9	5
285	Significance of Modeling Internal Damping in the Control of Structures. Journal of Guidance, Control, and Dynamics, 1992, 15, 1509-1512.	1.6	4
286	Low-Cost Pressure Probe Sensor for Predicting Turbulence-Induced Vibration From Invasive Low-Velocity Turbulent Flow Measurements. IEEE Sensors Journal, 2015, 15, 4373-4379.	2.4	4
287	Why morphology matters in birds and UAV's: How scale affects attitude wind sensitivity. Applied Physics Letters, 2017, 111, 203701.	1.5	4
288	Orthogonal spiral structures for energy harvesting applications: Theoretical and experimental analysis. Journal of Intelligent Material Systems and Structures, 2018, 29, 1900-1912.	1.4	4

#	ARTICLE	IF	CITATIONS
289	Self-Programming Synaptic Resistor Circuit for Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2021, 3, 2100016.	3.3	4
290	Active material micro-actuator arrays fabricated with SU-8 resin. <i>Microsystem Technologies</i> , 2001, 7, 117-119.	1.2	3
291	Structural Damage Identification and Location Using Gramian Matrices. <i>Shock and Vibration</i> , 2012, 19, 287-299.	0.3	3
292	Approximate frequency analysis in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2012, 27, 370-378.	4.4	3
293	Nonexplosive Deconstruction of Steel Girder Highway Bridges. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	1.0	3
294	Dynamic Modulus Properties of Objet Connex 3D Printer Digital Materials. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 191-198.	0.3	3
295	Nature of coupling in nonconservative lumped parameter systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1989, 12, 751-753.	1.6	2
296	Stable eigenvalue placement by constrained optimization. <i>Dynamical Systems</i> , 1990, 5, 191-199.	0.7	2
297	Robust Adaptive Control of Store Release Event for Wings with External Stores. <i>Journal of Guidance, Control, and Dynamics</i> , 1999, 22, 408-414.	1.6	2
298	Local Effects of Piezopolymer Patches on Inflatable Space-Based Structures. <i>Journal of Spacecraft and Rockets</i> , 2002, 39, 299-305.	1.3	2
299	Analysis of Time-Variant Aeroelastic Systems Using Neural Network. <i>AIAA Journal</i> , 2004, 42, 1933-1936.	1.5	2
300	Multifunctional materials and structures for autonomic systems. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2009, 223, 431-434.	0.7	2
301	Energy-based comparison of various controllers for vibration suppression using piezoceramics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
302	Smart Structures Theory. <i>AIAA Journal</i> , 2014, 52, 2624-2624.	1.5	2
303	Parameter identification for nonlinear biological phenomena modeled by S-systems. , 2015, , .		2
304	Pitch Control Effectiveness of the Avian Elbow and Wrist via a Numerical Lifting Line Analysis. , 2019, , .		2
305	Isolation Design for Fully Flexible Systems. <i>Journal of Intelligent Material Systems and Structures</i> , 1999, 10, 813-824.	1.4	2
306	Reduced-order models of structures with viscoelastic components. <i>AIAA Journal</i> , 1999, 37, 1318-1325.	1.5	2

#	ARTICLE	IF	CITATIONS
307	Direct updating of damping and stiffness matrices. AIAA Journal, 1998, 36, 491-494.	1.5	2
308	Generative Adversarial Networks for Data Generation in Structural Health Monitoring. Frontiers in Built Environment, 2022, 8, .	1.2	2
309	Review of Applied System Identification. Journal of Guidance, Control, and Dynamics, 1997, 20, 624-624.	1.6	1
310	Free-Response Simulation via the Proper Orthogonal Decomposition. AIAA Journal, 2007, 45, 2538-2543.	1.5	1
311	Energy Harvesting for Autonomous Sensing. Key Engineering Materials, 2007, 347, 405-410.	0.4	1
312	Passive Damping. , 0, , 225-231.		1
313	Closure to "Discussion of "Improved Concept and Model of Eddy Current Damper" (2007, ASME J. Vib. Tj ETQq1, 1 0.78491	1.0	1
314	Nature of coupling in non-conservative distributed parameter systems attached to external damping sources. Mathematics and Mechanics of Solids, 2020, 25, 1367-1383.	1.5	1
315	Energy generated through the pyroelectric effect using Macro-fiber Composites. Journal of Intelligent Material Systems and Structures, 2021, 32, 240-250.	1.4	1
316	Avian whiffing-inspired gaps provide an alternative method for roll control. Bioinspiration and Biomimetics, 0, , .	1.5	1
317	How Long Does it Take to Publish a Paper?. Journal of Intelligent Material Systems and Structures, 2010, 21, 123-123.	1.4	0
318	Preface: Educating Engineers About Intelligent Material Systems and Structures. Journal of Intelligent Material Systems and Structures, 2011, 22, 305-306.	1.4	0
319	Shape control of multi-cellular inflatable panels. Frontiers of Mechanical Engineering, 2013, 8, 276-282.	2.5	0
320	Memorial article for Ephraim Garcia. Smart Materials and Structures, 2015, 24, 110201.	1.8	0
321	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	0
322	Limitations of Using Membrane Theory for Modeling PVDF Patches on Inflatable Structures. Journal of Intelligent Material Systems and Structures, 2001, 12, 11-20.	1.4	0
323	Near-exact analytical solutions of linear time-variant systems. AIAA Journal, 2002, 40, 2362-2366.	1.5	0
324	Editorial: Human-Induced Excitations and Vibrations Serviceability of Civil Engineering Structures. Frontiers in Built Environment, 2022, 8, .	1.2	0