Alper ErtÃœrk

List of Publications by Year
in descending order

250	15,192	28274	20961
papers	citations	55 h-index	115 g-index

264	264	264	5478
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An experimentally validated bimorph cantilever model for piezoelectric energy harvesting from base excitations. Smart Materials and Structures, 2009, 18, 025009.	3.5	1,075
2	A Distributed Parameter Electromechanical Model for Cantilevered Piezoelectric Energy Harvesters. Journal of Vibration and Acoustics, Transactions of the ASME, 2008, 130, .	1.6	920
3	A piezomagnetoelastic structure for broadband vibration energy harvesting. Applied Physics Letters, 2009, 94, .	3.3	815
4	Broadband piezoelectric power generation on high-energy orbits of the bistable Duffing oscillator with electromechanical coupling. Journal of Sound and Vibration, 2011, 330, 2339-2353.	3.9	682
5	On the Role of Nonlinearities in Vibratory Energy Harvesting: A Critical Review and Discussion. Applied Mechanics Reviews, 2014, 66, .	10.1	632
6	On Mechanical Modeling of Cantilevered Piezoelectric Vibration Energy Harvesters. Journal of Intelligent Material Systems and Structures, 2008, 19, 1311-1325.	2.5	529
7	A piezoelectric bistable plate for nonlinear broadband energy harvesting. Applied Physics Letters, 2010, 97, .	3.3	409
8	Modeling of Piezoelectric Energy Harvesting from an L-shaped Beam-mass Structure with an Application to UAVs. Journal of Intelligent Material Systems and Structures, 2009, 20, 529-544.	2.5	351
9	Issues in mathematical modeling of piezoelectric energy harvesters. Smart Materials and Structures, 2008, 17, 065016.	3.5	338
10	On the energy harvesting potential of piezoaeroelastic systems. Applied Physics Letters, 2010, 96, .	3.3	323
11	Resistive Impedance Matching Circuit for Piezoelectric Energy Harvesting. Journal of Intelligent Material Systems and Structures, 2010, 21, 1293-1302.	2.5	297
12	Enhanced broadband piezoelectric energy harvesting using rotatable magnets. Applied Physics Letters, 2013, 102, .	3.3	297
13	Nanoscale flexoelectric energy harvesting. International Journal of Solids and Structures, 2014, 51, 3218-3225.	2.7	289
14	An electromechanical finite element model for piezoelectric energy harvester plates. Journal of Sound and Vibration, 2009, 327, 9-25.	3.9	271
15	Nonlinear piezoelectricity in electroelastic energy harvesters: Modeling and experimental identification. Journal of Applied Physics, 2010, 108, .	2.5	199
16	Advances in Energy Harvesting Methods. , 2013, , .		191
17	Analytical modeling of spindleâ€“tool dynamics on machine tools using Timoshenko beam model and receptance coupling for the prediction of tool point FRF. International Journal of Machine Tools and Manufacture, 2006, 46, 1901-1912.	13.4	187
18	On the mechanism of bandgap formation in locally resonant finite elastic metamaterials. Journal of Applied Physics, 2016, 120, .	2.5	182

#	Article	IF	Citations
19	Metamaterial-inspired structures and concepts for elastoacoustic wave energy harvesting. Smart Materials and Structures, 2013, 22, 065004.	3.5	179
20	A general theory for bandgap estimation in locally resonant metastructures. Journal of Sound and Vibration, 2017, 406, 104-123.	3.9	176
21	Effect of Strain Nodes and Electrode Configuration on Piezoelectric Energy Harvesting From Cantilevered Beams. Journal of Vibration and Acoustics, Transactions of the ASME, 2009, 131, .	1.6	159
22	Unified nonlinear electroelastic dynamics of a bimorph piezoelectric cantilever for energy harvesting, sensing, and actuation. Nonlinear Dynamics, 2015, 79, 1727-1743.	5.2	151
23	On the efficiency of piezoelectric energy harvesters. Extreme Mechanics Letters, 2017, 15, 26-37.	4.1	141
24	Phononic crystal Luneburg lens for omnidirectional elastic wave focusing and energy harvesting. Applied Physics Letters, 2017, 111, .	3.3	133
25	Piezoaeroelastic Modeling and Analysis of a Generator Wing with Continuous and Segmented Electrodes. Journal of Intelligent Material Systems and Structures, 2010, 21, 983-993.	2.5	130
26	Underwater thrust and power generation using flexible piezoelectric composites: an experimental investigation toward self-powered swimmer-sensor platforms. Smart Materials and Structures, 2011, 20, 125013.	3.5	130
27	Time-Periodic Stiffness Modulation in Elastic Metamaterials for Selective Wave Filtering: Theory and Experiment. Physical Review Letters, 2019, 122, 124301.	7.8	129
28	Gradient-index phononic crystal lens-based enhancement of elastic wave energy harvesting. Applied Physics Letters, 2016, 109, .	3.3	127
29	Piezoelectric energy harvesting for civil infrastructure system applications: Moving loads and surface strain fluctuations. Journal of Intelligent Material Systems and Structures, 2011, 22, 1959-1973.	2.5	115
30	Nonlinear nonconservative behavior and modeling of piezoelectric energy harvesters including proof mass effects. Journal of Intelligent Material Systems and Structures, 2012, 23, 183-199.	2.5	115
31	M-shaped asymmetric nonlinear oscillator for broadband vibration energy harvesting: Harmonic balance analysis and experimental validation. Journal of Sound and Vibration, 2014, 333, 6209-6223.	3.9	115
32	Enhanced aeroelastic energy harvesting by exploiting combined nonlinearities: theory and experiment. Smart Materials and Structures, 2011, 20, 094007.	3.5	109
33	Stretchable quaternary phasic PVDF-HFP nanocomposite films containing graphene-titania-SrTiO3 for mechanical energy harvesting. Emergent Materials, 2018, 1, 55-65.	5.7	105
34	Internal resonance for nonlinear vibration energy harvesting. European Physical Journal: Special Topics, 2015, 224, 2867-2880.	2.6	104
35	On the stochastic excitation of monostable and bistable electroelastic power generators: Relative advantages and tradeoffs in a physical system. Applied Physics Letters, 2013, 102, .	3.3	102
36	An investigation of electroelastic bandgap formation in locally resonant piezoelectric metastructures. Smart Materials and Structures, 2017, 26, 055029.	3.5	98

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37	Nonlinear M-shaped broadband piezoelectric energy harvester for very low base accelerations: primary and secondary resonances. Smart Materials and Structures, 2015, 24, 055021.	3.5	95
38	Assumed-modes modeling of piezoelectric energy harvesters: Eulerâ€“Bernoulli, Rayleigh, and Timoshenko models with axial deformations. Computers and Structures, 2012, 106-107, 214-227.	4.4	94
39	Multistable vibration energy harvesters: Principle, progress, and perspectives. Journal of Sound and Vibration, 2022, 528, 116886.	3.9	92
40	Piezoelectret foamâ€“based vibration energy harvesting. Journal of Intelligent Material Systems and Structures, 2014, 25, 1681-1692.	2.5	91
41	Multifunctional self-charging structures using piezoceramics and thin-film batteries. Smart Materials and Structures, 2010, 19, 115021.	3.5	85
42	Modeling and Analysis of Piezoelectric Energy Harvesting From Aeroelastic Vibrations Using the Doublet-Lattice Method. Journal of Vibration and Acoustics, Transactions of the ASME, 2011, 133, .	1.6	85
43	Bio-inspired aquatic robotics by untethered piezohydroelastic actuation. Bioinspiration and Biomimetics, 2013, 8, 016006.	2.9	85
44	Electroelastic modeling and experimental validations of piezoelectric energy harvesting from broadband random vibrations of cantilevered bimorphs. Smart Materials and Structures, 2013, 22, 015002.	3.5	84
45	Merging mechanical and electromechanical bandgaps in locally resonant metamaterials and metastructures. Journal of the Mechanics and Physics of Solids, 2018, 116, 323-333.	4.8	83
46	Analysis of multifunctional piezoelectric metastructures for low-frequency bandgap formation and energy harvesting. Journal Physics D: Applied Physics, 2018, 51, 215103.	2.8	79
47	Electroaeroelastic analysis of airfoil-based wind energy harvesting using piezoelectric transduction and electromagnetic induction. Journal of Intelligent Material Systems and Structures, 2013, 24, 846-854.	2.5	78
48	Hybrid piezoelectric-inductive flow energy harvesting and dimensionless electroaeroelastic analysis for scaling. Applied Physics Letters, 2013, 102, .	3.3	78
49	Deterministic and band-limited stochastic energy harvesting from uniaxial excitation of a multilayer piezoelectric stack. Sensors and Actuators A: Physical, 2014, 214, 58-65.	4.1	77
50	Dramatic enhancement of structure-borne wave energy harvesting using an elliptical acoustic mirror. Applied Physics Letters, 2012, 100, .	3.3	75
51	A closed-form approach for identification of dynamical contact parameters in spindleâ€“holderâ€“tool assemblies. International Journal of Machine Tools and Manufacture, 2009, 49, 25-35.	13.4	74
52	Energy harvesting from hydraulic pressure fluctuations. Smart Materials and Structures, 2013, 22, 025036.	3.5	74
53	Effect analysis of bearing and interface dynamics on tool point FRF for chatter stability in machine tools by using a new analytical model for spindleâ€“tool assemblies. International Journal of Machine Tools and Manufacture, 2007, 47, 23-32.	13.4	70
54	Analytical modeling and experimental validation of a structurally integrated piezoelectric energy harvester on a thin plate. Smart Materials and Structures, 2014, 23, 045039.	3.5	69

#	ARTICLE	IF	CITATIONS
55	Power generation and shunt damping performance of a single crystal lead magnesium niobate-lead zirconate titanate unimorph: Analysis and experiment. Applied Physics Letters, 2008, 93, .	3.3	65
56	Tunable metamaterial beam with shape memory alloy resonators: Theory and experiment. Applied Physics Letters, 2018, 113, .	3.3	58
57	Design and Analysis of Piezoelectric Metamaterial Beams With Synthetic Impedance Shunt Circuits. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2144-2155.	5.8	58
58	An analytical framework for locally resonant piezoelectric metamaterial plates. International Journal of Solids and Structures, 2020, 182-183, 281-294.	2.7	57
59	Bistable attachments for wideband nonlinear vibration attenuation in a metamaterial beam. Nonlinear Dynamics, 2020, 102, 1285-1296.	5.2	56
60	Experimental Observation of Temporal Pumping in Electromechanical Waveguides. Physical Review Letters, 2021, 126, 095501.	7.8	56
61	Multifunctional Unmanned Aerial Vehicle Wing Spar for Low-Power Generation and Storage. Journal of Aircraft, 2012, 49, 292-301.	2.4	55
62	Resonant manifestation of intrinsic nonlinearity within electroelastic micropower generators. Applied Physics Letters, 2010, 97, .	3.3	54
63	Selection of design and operational parameters in spindleâ€“holderâ€“tool assemblies for maximum chatter stability by using a new analytical model. International Journal of Machine Tools and Manufacture, 2007, 47, 1401-1409.	13.4	53
64	Piezoelectric, solar and thermal energy harvesting for hybrid low-power generator systems with thin-film batteries. Measurement Science and Technology, 2012, 23, 015101.	2.6	53
65	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	52
66	3D-Printed Gradient-Index Phononic Crystal Lens for Underwater Acoustic Wave Focusing. Physical Review Applied, 2020, 13, .	3.8	52
67	A Modeling Approach for Analysis and Improvement of Spindle-Holder-Tool Assembly Dynamics. CIRP Annals - Manufacturing Technology, 2006, 55, 369-372.	3.6	50
68	Contactless ultrasonic energy transfer for wireless systems: acoustic-piezoelectric structure interaction modeling and performance enhancement. Smart Materials and Structures, 2014, 23, 125032.	3.5	49
69	Ultrasonic power transfer from a spherical acoustic wave source to a free-free piezoelectric receiver: Modeling and experiment. Journal of Applied Physics, 2015, 117, .	2.5	49
70	Dramatic bandwidth enhancement in nonlinear metastructures via bistable attachments. Applied Physics Letters, 2019, 114, .	3.3	49
71	Graded multifunctional piezoelectric metastructures for wideband vibration attenuation and energy harvesting. Smart Materials and Structures, 2021, 30, 015029.	3.5	49
72	Three-Degree-of-Freedom Hybrid Piezoelectric-Inductive Aeroelastic Energy Harvester Exploiting a Control Surface. AIAA Journal, 2015, 53, 394-404.	2.6	48

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73	An experimentally validated model for geometrically nonlinear plucking-based frequency up-conversion in energy harvesting. Smart Materials and Structures, 2018, 27, 015024.	3.5	45
74	3D-printed phononic crystal lens for elastic wave focusing and energy harvesting. Additive Manufacturing, 2019, 29, 100780.	3.0	44
75	Digitally Programmable Resonant Elastic Metamaterials. Physical Review Applied, 2020, 13, .	3.8	44
76	Topological Edge States in Quasiperiodic Locally Resonant Metastructures. Physical Review Applied, 2020, 13, .	3.8	41
77	Electroelastodynamics of flexoelectric energy conversion and harvesting in elastic dielectrics. Journal of Applied Physics, 2017, 121, .	2.5	40
78	Bending strength of piezoelectric ceramics and single crystals for multifunctional load-bearing applications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1085-1092.	3.0	37
79	Adaptive locally resonant metamaterials leveraging shape memory alloys. Journal of Applied Physics, 2018, 124, .	2.5	36
80	Nonreciprocal piezoelectric metamaterial framework and circuit strategies. Physical Review B, 2020, 102, .	3.2	36
81	Electrohydroelastic Eulerâ€“Bernoulliâ€“Morison model for underwater resonant actuation of macro-fiber composite piezoelectric cantilevers. Smart Materials and Structures, 2016, 25, 105007.	3.5	35
82	An experimentally validated piezoelectric nonlinear energy sink for wideband vibration attenuation. Journal of Sound and Vibration, 2018, 437, 68-78.	3.9	34
83	Equivalent circuit modeling of a piezo-patch energy harvester on a thin plate with ACâ€“DC conversion. Smart Materials and Structures, 2016, 25, 055015.	3.5	33
84	Coupling of experimentally validated electroelastic dynamics and mixing rules formulation for macro-fiber composite piezoelectric structures. Journal of Intelligent Material Systems and Structures, 2017, 28, 1575-1588.	2.5	33
85	Nonlinear elastodynamics of piezoelectric macro-fiber composites with interdigitated electrodes for resonant actuation. Composite Structures, 2018, 187, 137-143.	5.8	33
86	Multiple patchâ€“based broadband piezoelectric energy harvesting on plate-based structures. Journal of Intelligent Material Systems and Structures, 2014, 25, 1664-1680.	2.5	32
87	Fourier transform-based design of a patterned piezoelectric energy harvester integrated with an elastoacoustic mirror. Applied Physics Letters, 2015, 106, .	3.3	32
88	Power performance improvements for high pressure ripple energy harvesting. Smart Materials and Structures, 2014, 23, 104011.	3.5	28
89	Soft and Hard Piezoelectric Ceramics and Single Crystals for Random Vibration Energy Harvesting. Energy Technology, 2018, 6, 935-942.	3.8	28
90	Mechanical Considerations for Modeling of Vibration-Based Energy Harvesters. , 2007, , .		27

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91	Random vibration energy harvesting on thin plates using multiple piezopatches. Journal of Intelligent Material Systems and Structures, 2016, 27, 2744-2756.	2.5	27
92	Programmable Rainbow Trapping and Band-Gap Enhancement via Spatial Group-Velocity Tailoring in Elastic Metamaterials. Physical Review Applied, 2022, 17, .	3.8	25
93	Resonant nonlinearities of piezoelectric macro-fiber composite cantilevers with interdigitated electrodes in energy harvesting. Nonlinear Dynamics, 2018, 92, 1935-1945.	5.2	24
94	Programmable mode conversion and bandgap formation for surface acoustic waves using piezoelectric metamaterials. Applied Physics Letters, 2019, 115, .	3.3	23
95	Structurally embedded reflectors and mirrors for elastic wave focusing and energy harvesting. Journal of Applied Physics, 2017, 122, .	2.5	22
96	On the electrode segmentation for piezoelectric energy harvesting from nonlinear limit cycle oscillations in axial flow. Journal of Fluids and Structures, 2018, 82, 492-504.	3.4	22
97	Trout-like multifunctional piezoelectric robotic fish and energy harvester. Bioinspiration and Biomimetics, 2021, 16, 046024.	2.9	22
98	Experimental identification of high order Lamb waves and estimation of the mechanical properties of a dry human skull. Ultrasonics, 2021, 113, 106343.	3.9	21
99	Mechanically and electrically nonlinear non-ideal piezoelectric energy harvesting framework with experimental validations. Nonlinear Dynamics, 2020, 99, 625-641.	5.2	18
100	Sound energy harvesting by leveraging a 3D-printed phononic crystal lens. Applied Physics Letters, 2021, 118, .	3.3	18
101	Hydrodynamic thrust generation and power consumption investigations for piezoelectric fins with different aspect ratios. European Physical Journal: Special Topics, 2015, 224, 3419-3434.	2.6	16
102	Self-bending elastic waves and obstacle circumventing in wireless power transfer. Applied Physics Letters, 2017, 110, .	3.3	16
103	Experimentally validated broadband self-collimation of elastic waves. International Journal of Mechanical Sciences, 2021, 192, 106131.	6.7	16
104	Parameter identification and optimization in piezoelectric energy harvesting: analytical relations, asymptotic analyses, and experimental validations. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2011, 225, 485-496.	1.0	15
105	Equivalent electrical circuit framework for nonlinear and high quality factor piezoelectric structures. Mechatronics, 2018, 54, 133-143.	3.3	15
106	Piezoelectric energy harvesting from an L-shaped beam-mass structure. Proceedings of SPIE, 2008, , .	0.8	13
107	Ceramic-Based Polymer Nanocomposites as Piezoelectric Materials. Springer Series on Polymer and Composite Materials, 2017, , 77-93.	0.7	13
108	Effect of actuation method on hydrodynamics of elastic plates oscillating at resonance. Journal of Fluid Mechanics, 2021, 910, .	3.4	13

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109	Experimentally validated geometrically exact model for extreme nonlinear motions of cantilevers. Nonlinear Dynamics, 2022, 107, 457-475.	5.2	13
110	Macro-Fiber Composite Actuated Piezoelectric Robotic Fish. Springer Tracts in Mechanical Engineering, 2015, , 255-283.	0.3	11
111	Vibration attenuation in a nonlinear flexible structure via nonlinear switching circuits and energy harvesting implications. Journal of Intelligent Material Systems and Structures, 2019, 30, 965-976.	2.5	11
112	Characterization of hydrogel structural damping. Extreme Mechanics Letters, 2020, 40, 100841.	4.1	11
113	Piezoelectric energy harvesting from multifunctional wing spars for UAVs: Part 1. Coupled modeling and preliminary analysis. , 2009, , .		10
114	Electromechanical Modeling of Cantilevered Piezoelectric Energy Harvesters for Persistent Base Motions. , 2009, , 41-77.		10
115	Strength analysis of piezoceramic materials for structural considerations in energy harvesting for UAVs. Proceedings of SPIE, 2010, , .	0.8	10
116	Tunable elastic metamaterials using rotatable coupled dual-beam resonators. Journal of Applied Physics, 2019, 126, 035107.	2.5	10
117	Experimental and Computational Investigation of Guided Waves in a Human Skull. Ultrasound in Medicine and Biology, 2021, 47, 787-798.	1.5	10
118	Radiation Characteristics of Cranial Leaky Lamb Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2129-2140.	3.0	10
119	Assumed-Modes Formulation of Piezoelectric Energy Harvesters: Euler-Bernoulli, Rayleigh and Timoshenko Models With Axial Deformations. , 2010, , .		9
120	Piezoelectric power generation for civil infrastructure systems. , 2011, , .		9
121	Introduction and Methods of Mechanical Energy Harvesting. , 2013, , 3-14.		9
122	Energy harvesting from harmonic and noise excitation of multilayer piezoelectric stacks: modeling and experiment. Proceedings of SPIE, 2013, , .	0.8	9
123	Modeling and Characterization of a Curved Piezoelectric Energy Harvester for Smart Paver Tiles. Procedia Computer Science, 2017, 109, 1060-1066.	2.0	9
124	Combined piezoelectric and flexoelectric effects in resonant dynamics of nanocantilevers. Journal of Intelligent Material Systems and Structures, 2018, 29, 3949-3959.	2.5	9
125	Aspect Ratio-Dependent Dynamics of Piezoelectric Transducers in Wireless Acoustic Power Transfer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 984-996.	3.0	9
126	Comment on â€˜Modeling and analysis of a bimorph piezoelectric cantilever beam for voltage generationâ€™. Smart Materials and Structures, 2008, 17, 058001.	3.5	8

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127	Self-Charging Structures Using Piezoceramics and Thin-Film Batteries. , 2009, , .		8
128	Vibration Sensing Systems Based on Poly(Vinylidene Fluoride) and Microwave-Assisted Synthesized ZnO Star-Like Particles with Controllable Structural and Physical Properties. Nanomaterials, 2020, 10, 2345.	4.1	8
129	Vibration Characterization of the Human Knee Joint in Audible Frequencies. Sensors, 2020, 20, 4138.	3.8	8
130	Nonlinear piezoelectric plate framework for aeroelastic energy harvesting and actuation applications. Smart Materials and Structures, 2020, 29, 105006.	3.5	8
131	Piezoelectric transducer design for simultaneous ultrasonic power transfer and backscatter communication. Smart Materials and Structures, 2022, 31, 095003.	3.5	8
132	On the Fundamental Transverse Vibration Frequency of a Free-Free Thin Beam With Identical End Masses. Journal of Vibration and Acoustics, Transactions of the ASME, 2007, 129, 656-662.	1.6	7
133	Piezoelectric power extraction from bending waves: Electroelastic modeling, experimental validation, and performance enhancement. Wave Motion, 2016, 60, 20-34.	2.0	7
134	Three-dimensional nonlinear extreme vibrations of cantilevers based on a geometrically exact model. Journal of Sound and Vibration, 2021, 510, 116295.	3.9	7
135	Transduction as energy conversion; harvesting of acoustic energy in hydraulic systems. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6
136	Underwater Dynamic Actuation of Macro-Fiber Composite Flaps With Different Aspect Ratios: Electrohydroelastic Modeling, Testing, and Characterization. , 2014, , .		6
137	Effect of Material Constants and Mechanical Damping on Piezoelectric Power Generation. , 2009, , .		5
138	Experimentally Validated Nonlinear Electrohydroelastic Euler-Bernoulli-Morison Model for Macro-Fiber Composites With Different Aspect Ratios. , 2015, , .		5
139	Figure of merit comparison of PP-based electret and PVDF-based piezoelectric polymer energy harvesters. Proceedings of SPIE, 2016, , .	0.8	5
140	Vibration-based elastic parameter identification of the diploÃ« and cortical tables in dry cranial bones. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104747.	3.1	5
141	Concurrent vibration attenuation and low-power electricity generation in a locally resonant metastructure. Journal of Intelligent Material Systems and Structures, 2022, 33, 1990-1999.	2.5	5
142	Hydrodynamic performance of oscillating elastic propulsors with tapered thickness. Journal of Fluid Mechanics, 2022, 944, .	3.4	5
143	Effect of Segmented Electrodes on Piezo-Elastic and Piezo-Aero-Elastic Responses of Generator Plates. , 2009, , .		4
144	Electromechanical Modelling and Experiments of a Bistable Plate for Nonlinear Energy Harvesting. , 2010, , .		4

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145	Energy Harvesting From Hydraulic Pressure Fluctuations. , 2012, , .		4
146	Electrohydroelastic dynamics of macro-fiber composites for underwater energy harvesting from base excitation. Proceedings of SPIE, 2014, , .	0.8	4
147	An experimentally validated contactless acoustic energy transfer model with resistive-reactive electrical loading. Proceedings of SPIE, 2015, , .	0.8	4
148	Bimorph disk piezoelectric energy harvester under base excitation: electroelastic modeling and experimental validation. Proceedings of SPIE, 2015, , .	0.8	4
149	Energy harvesting from acoustic fields for self-powered sensors in pumped fluid systems. Proceedings of SPIE, 2017, , .	0.8	4
150	On the coupling of nonlinear macro-fiber composite piezoelectric cantilever dynamics with hydrodynamic loads. , 2018, , .		4
151	Design and performance enhancement of hydraulic pressure energy harvesting systems. Proceedings of SPIE, 2013, , .	0.8	3
152	Design Tool for Prediction of Thermal Synchronous Instability. , 2013, , .		3
153	Closure to â€œDiscussion of â€˜On the Role of Nonlinearities in Energy Harvesting: A Critical Review and Discussionâ€™â€•(Daqaq, M., Masana, R., Erturk, A., and Quinn, D. D., 2014, ASME Appl. Mech. Rev., 66(4), p.) Tj ET Q q 1 1 0.784314 rg		3
154	Hydraulic pressure energy harvester enhanced by Helmholtz resonator. Proceedings of SPIE, 2015, , .	0.8	3
155	Modeling and identification of nonlinear electroelastic and dissipative parameters for PZT-5A and PZT-5H bimorphs: a dynamical systems approach. Proceedings of SPIE, 2015, , .	0.8	3
156	Power conditioning for low-voltage piezoelectric stack energy harvesters. , 2016, , .		3
157	Low-Frequency Elastic Wave Focusing and Harvesting via Locally Resonant Metamaterials. , 2017, , .		3
158	Multifunctional Energy Harvesting Locally Resonant Metastructures. , 2017, , .		3
159	Dynamics of Hybrid Mechanical-Electromechanical Locally Resonant Piezoelectric Metastructures. , 2017, , .		3
160	Aspect ratio effects in wind energy harvesting using piezoelectric inverted flags. , 2019, , .		3
161	Aspect ratio-dependent hysteresis response of a heavy inverted flag. Journal of Fluid Mechanics, 2022, 942, .	3.4	3
162	Energy harvesting from small unmmaned air vehicles. , 2008, , .		2

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163	Performance Analysis of Single Crystal PMN-PZT Unimorphs for Piezoelectric Energy Harvesting. , 2008, , .		2
164	Investigation of Soft and Hard Ceramics and Single Crystals for Resonant and Off-Resonant Piezoelectric Energy Harvesting. , 2010, , .		2
165	Linear and Nonlinear Aeroelastic Energy Harvesting Using Electromagnetic Induction. , 2011, , .		2
166	Comparative Investigation of the Electroelastic Dynamics of Piezoceramics With Interdigitated and Uniform Electrodes. , 2012, , .		2
167	Fish-Like Self Propulsion Using Flexible Piezoelectric Composites. , 2012, , .		2
168	Electroaeroelastic modeling and analysis of a hybrid piezoelectric-inductive flow energy harvester. , 2013, , .		2
169	Harvesting of Bending Waves in One-Dimensional Infinite Beams Using Resistive-Reactive Circuits. , 2013, , .		2
170	Modeling and Characterization of Elastic, Coupling, and Dissipative Nonlinearities in PZT Bimorphs for Vibration Energy Harvesting. , 2014, , .		2
171	Unified electrohydroelastic investigation of underwater energy harvesting and dynamic actuation by incorporating Morison's equation. , 2015, , .		2
172	Embedded elastic wave mirrors for enhanced energy harvesting. , 2016, , .		2
173	Dramatic Enhancement of Elastic Wave Energy Harvesting Using a Gradient-Index Phononic Crystal Lens. , 2016, , .		2
174	A Distributed-Parameter Flexoelectric Energy Harvester Model Accounting for Two-Way Coupling and Size Effects. , 2016, , .		2
175	Toward structurally integrated locally resonant metamaterials for vibration attenuation. , 2017, , .		2
176	Nonlinear Structural Dynamics of Macro-Fiber Composite Cantilevers for Resonant Actuation. , 2017, , .		2
177	Numerical and Experimental Investigations of Energy Harvesting From Piezoelectric Inverted Flags. , 2021, , .		2
178	Vibration Stimulation as a Non-Invasive Approach to Monitor the Severity of Meniscus Tears. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 350-359.	4.9	2
179	Comparison of various models for piezoelectric receivers in wireless acoustic power transfer. , 2019, , .		2
180	Matrix Pencil Estimation of Guided Waves Dispersion in a Human Skull. , 2020, , .		2

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181	Machined phononic crystals to block high-order Lamb waves and crosstalk in through-metal ultrasonic communication systems. Applied Physics Letters, 2022, 120, 191705.	3.3	2
182	Hydroelastic Power and Thrust Generation Using Macro-Fiber Composite Piezoelectrics. , 2011, , .		1
183	Electroelastic Modeling and Experimental Validation of Piezoelectric Energy Harvesting From Broadband Random Vibrations. , 2012, , .		1
184	Metamaterial Concepts for Structure-Borne Wave Energy Harvesting: Focusing, Funneling, and Localization. , 2012, , .		1
185	Numerical and experimental comparison of bistable and monostable vibration energy harvesters under broadband random excitation. , 2013, , .		1
186	Airfoil-Based Linear and Nonlinear Electroaeroelastic Energy Harvesting. , 2013, , 269-294.		1
187	Power Density Performance Improvements for High Pressure Ripple Energy Harvesting. , 2013, , .		1
188	Multifunctional double-bimorph piezoelectric composite for bending-twisting actuation, adaptive stiffness change, and energy harvesting. , 2013, , .		1
189	Vibration of Bending-Torsion Coupled Resonance in a Rotor. , 2013, , .		1
190	Design and Modeling of Hydraulic Pressure Energy Harvesters for Low Dynamic Pressure Environments. , 2014, , .		1
191	Optimal piezoelectric energy harvesting using elastoacoustic mirrors by frequency-wavenumber domain investigation. , 2014, , .		1
192	Broadband and band-limited random vibration energy harvesting using a piezoelectric patch on a thin plate. , 2014, , .		1
193	Ultrasound acoustic wave energy transfer and harvesting. Proceedings of SPIE, 2014, , .	0.8	1
194	Hydrodynamic Thrust Generation and Power Consumption Investigations for Piezoelectric Fins With Different Aspect Ratios. , 2015, , .		1
195	Harmonic Balance Analysis and Experimental Validation of a Nonlinear Broadband Piezoelectric Energy Harvester for Low Ambient Vibrations. , 2015, , .		1
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