

Alper Ert ærk

List of Publications by Year in descending order

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Version: 2024-02-01

250
papers

15,192
citations

28242

55
h-index

20943

115
g-index

264
all docs

264
docs citations

264
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally validated geometrically exact model for extreme nonlinear motions of cantilevers. <i>Nonlinear Dynamics</i> , 2022, 107, 457-475.	2.7	13
2	Concurrent vibration attenuation and low-power electricity generation in a locally resonant metastructure. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1990-1999.	1.4	5
3	Programmable Rainbow Trapping and Band-Gap Enhancement via Spatial Group-Velocity Tailoring in Elastic Metamaterials. <i>Physical Review Applied</i> , 2022, 17, .	1.5	25
4	Multistable vibration energy harvesters: Principle, progress, and perspectives. <i>Journal of Sound and Vibration</i> , 2022, 528, 116886.	2.1	92
5	Programmable spatial and spatiotemporal modulation of piezoelectric metamaterials with synthetic impedance circuits. , 2022, , .		0
6	Nonlinear synthetic impedance circuits for piezoelectric structures. , 2022, , .		1
7	Aspect ratio-dependent hysteresis response of a heavy inverted flag. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	1.4	3
8	Machined phononic crystals to block high-order Lamb waves and crosstalk in through-metal ultrasonic communication systems. <i>Applied Physics Letters</i> , 2022, 120, 191705.	1.5	2
9	Piezoelectric transducer design for simultaneous ultrasonic power transfer and backscatter communication. <i>Smart Materials and Structures</i> , 2022, 31, 095003.	1.8	8
10	Hydrodynamic performance of oscillating elastic propulsors with tapered thickness. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	5
11	Experimentally validated broadband self-collimation of elastic waves. <i>International Journal of Mechanical Sciences</i> , 2021, 192, 106131.	3.6	16
12	Leveraging size effects in flexoelectric-piezoelectric vibration energy harvesting. , 2021, , 107-146.		0
13	Effect of actuation method on hydrodynamics of elastic plates oscillating at resonance. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	1.4	13
14	Numerical and Experimental Investigations of Energy Harvesting From Piezoelectric Inverted Flags. , 2021, , .		2
15	Experimental Observation of Temporal Pumping in Electromechanical Waveguides. <i>Physical Review Letters</i> , 2021, 126, 095501.	2.9	56
16	Experimental and Computational Investigation of Guided Waves in a Human Skull. <i>Ultrasound in Medicine and Biology</i> , 2021, 47, 787-798.	0.7	10
17	Sound energy harvesting by leveraging a 3D-printed phononic crystal lens. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	18
18	Experimental identification of high order Lamb waves and estimation of the mechanical properties of a dry human skull. <i>Ultrasonics</i> , 2021, 113, 106343.	2.1	21

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19	Phased Array Ultrasonic Testing of Inconel 625 Produced by Selective Laser Melting. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2021, 4, .	0.7	1
20	Radiation Characteristics of Cranial Leaky Lamb Waves. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 2129-2140.	1.7	10
21	Trout-like multifunctional piezoelectric robotic fish and energy harvester. Bioinspiration and Biomimetics, 2021, 16, 046024.	1.5	22
22	Three-dimensional nonlinear extreme vibrations of cantilevers based on a geometrically exact model. Journal of Sound and Vibration, 2021, 510, 116295.	2.1	7
23	Vibration-based elastic parameter identification of the diploÅ« and cortical tables in dry cranial bones. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104747.	1.5	5
24	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.	2.7	2
25	Graded multifunctional piezoelectric metastructures for wideband vibration attenuation and energy harvesting. Smart Materials and Structures, 2021, 30, 015029.	1.8	49
26	Wideband Acoustic Data Transmission Through Staircase Piezoelectric Transducers. , 2021, , .		0
27	Experimental Validation of Crosstalk Minimization in Metallic Barriers with Simultaneous Ultrasonic Power and Data Transfer. , 2021, , .		0
28	Radiation Characterization of Leaky Guided Waves in Monolithic and Sutured Cranial Bones. , 2021, , .		0
29	Mechanical Characterization of Cranial Sutures Using Guided Ultrasonic Waves. , 2021, , .		0
30	Mechanically and electrically nonlinear non-ideal piezoelectric energy harvesting framework with experimental validations. Nonlinear Dynamics, 2020, 99, 625-641.	2.7	18
31	An analytical framework for locally resonant piezoelectric metamaterial plates. International Journal of Solids and Structures, 2020, 182-183, 281-294.	1.3	57
32	Aspect Ratio-Dependent Dynamics of Piezoelectric Transducers in Wireless Acoustic Power Transfer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 984-996.	1.7	9
33	Bistable attachments for wideband nonlinear vibration attenuation in a metamaterial beam. Nonlinear Dynamics, 2020, 102, 1285-1296.	2.7	56
34	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.	1.9	8
35	Vibration Characterization of the Human Knee Joint in Audible Frequencies. Sensors, 2020, 20, 4138.	2.1	8
36	Nonlinear piezoelectric plate framework for aeroelastic energy harvesting and actuation applications. Smart Materials and Structures, 2020, 29, 105006.	1.8	8

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37	Characterization of hydrogel structural damping. <i>Extreme Mechanics Letters</i> , 2020, 40, 100841.	2.0	11
38	Digitally Programmable Resonant Elastic Metamaterials. <i>Physical Review Applied</i> , 2020, 13, .	1.5	44
39	3D-Printed Gradient-Index Phononic Crystal Lens for Underwater Acoustic Wave Focusing. <i>Physical Review Applied</i> , 2020, 13, .	1.5	52
40	Topological Edge States in Quasiperiodic Locally Resonant Metastructures. <i>Physical Review Applied</i> , 2020, 13, .	1.5	41
41	Nonreciprocal piezoelectric metamaterial framework and circuit strategies. <i>Physical Review B</i> , 2020, 102, .	1.1	36
42	Characterization of a Multifunctional Bioinspired Piezoelectric Swimmer and Energy Harvester. , 2020, , .		1
43	Ultrasonic Communication through a Metallic Barrier: Transmission Modeling and Crosstalk Minimization. , 2020, , .		0
44	Matrix Pencil Estimation of Guided Waves Dispersion in a Human Skull. , 2020, , .		2
45	Tunable elastic metamaterials using rotatable coupled dual-beam resonators. <i>Journal of Applied Physics</i> , 2019, 126, 035107.	1.1	10
46	3D-printed phononic crystal lens for elastic wave focusing and energy harvesting. <i>Additive Manufacturing</i> , 2019, 29, 100780.	1.7	44
47	Programmable mode conversion and bandgap formation for surface acoustic waves using piezoelectric metamaterials. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	23
48	Vibration attenuation in a nonlinear flexible structure via nonlinear switching circuits and energy harvesting implications. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 965-976.	1.4	11
49	Time-Periodic Stiffness Modulation in Elastic Metamaterials for Selective Wave Filtering: Theory and Experiment. <i>Physical Review Letters</i> , 2019, 122, 124301.	2.9	129
50	Dramatic bandwidth enhancement in nonlinear metastructures via bistable attachments. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	49
51	An analytical framework for Kirchhoff plate-type locally resonant piezoelectric metastructures. , 2019, , .		1
52	Aspect ratio effects in wind energy harvesting using piezoelectric inverted flags. , 2019, , .		3
53	Comparison of various models for piezoelectric receivers in wireless acoustic power transfer. , 2019, , .		2
54	Nonlinearities in resonant dynamics of piezoelectric macro-fiber composite cantilevers. , 2019, , .		1

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55	Characterization of a bio-inspired piezoelectric swimmer in a quiescent water and under imposed flow. , 2019, , .		0
56	10.1063/1.5099324.1. , 2019, , .		0
57	10.1063/1.5110701.2. , 2019, , .		0
58	10.1063/1.5110701.1. , 2019, , .		0
59	Merging mechanical and electromechanical bandgaps in locally resonant metamaterials and metastructures. Journal of the Mechanics and Physics of Solids, 2018, 116, 323-333.	2.3	83
60	Soft and Hard Piezoelectric Ceramics and Single Crystals for Random Vibration Energy Harvesting. Energy Technology, 2018, 6, 935-942.	1.8	28
61	Nonlinear elastodynamics of piezoelectric macro-fiber composites with interdigitated electrodes for resonant actuation. Composite Structures, 2018, 187, 137-143.	3.1	33
62	Analysis of multifunctional piezoelectric metastructures for low-frequency bandgap formation and energy harvesting. Journal Physics D: Applied Physics, 2018, 51, 215103.	1.3	79
63	Resonant nonlinearities of piezoelectric macro-fiber composite cantilevers with interdigitated electrodes in energy harvesting. Nonlinear Dynamics, 2018, 92, 1935-1945.	2.7	24
64	An experimentally validated model for geometrically nonlinear plucking-based frequency up-conversion in energy harvesting. Smart Materials and Structures, 2018, 27, 015024.	1.8	45
65	Selective Wave Filtering in Time-Modulated Elastic Metamaterials. , 2018, , .		0
66	Tunable metamaterial beam with shape memory alloy resonators: Theory and experiment. Applied Physics Letters, 2018, 113, .	1.5	58
67	Combined piezoelectric and flexoelectric effects in resonant dynamics of nanocantilevers. Journal of Intelligent Material Systems and Structures, 2018, 29, 3949-3959.	1.4	9
68	An experimentally validated piezoelectric nonlinear energy sink for wideband vibration attenuation. Journal of Sound and Vibration, 2018, 437, 68-78.	2.1	34
69	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.	1.5	22
70	Equivalent electrical circuit framework for nonlinear and high quality factor piezoelectric structures. Mechatronics, 2018, 54, 133-143.	2.0	15
71	Adaptive locally resonant metamaterials leveraging shape memory alloys. Journal of Applied Physics, 2018, 124, .	1.1	36
72	Stretchable quaternary phasic PVDF-HFP nanocomposite films containing graphene-titania-SrTiO3 for mechanical energy harvesting. Emergent Materials, 2018, 1, 55-65.	3.2	105

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73	Design and Analysis of Piezoelectric Metamaterial Beams With Synthetic Impedance Shunt Circuits. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2144-2155.	3.7	58
74	On the coupling of nonlinear macro-fiber composite piezoelectric cantilever dynamics with hydrodynamic loads. , 2018, , .		4
75	Varying cross-section and axial strain-gradient effects in flexoelectric cantilevers at submicron thickness levels. , 2018, , .		0
76	Dispersion tailoring in varying-inductance piezoelectric metamaterials. , 2018, , .		0
77	Effects of a piezoelectric based nonlinear energy sink on the behavior of an electromechanically coupled beam. , 2018, , .		0
78	Locally resonant metamaterials with shape-memory alloy springs. , 2018, , .		0
79	Electroelastodynamics of flexoelectric energy conversion and harvesting in elastic dielectrics. Journal of Applied Physics, 2017, 121, .	1.1	40
80	Ceramic-Based Polymer Nanocomposites as Piezoelectric Materials. Springer Series on Polymer and Composite Materials, 2017, , 77-93.	0.5	13
81	Self-bending elastic waves and obstacle circumventing in wireless power transfer. Applied Physics Letters, 2017, 110, .	1.5	16
82	Energy harvesting from acoustic fields for self-powered sensors in pumped fluid systems. Proceedings of SPIE, 2017, , .	0.8	4
83	Evaluation of human-scale motion energy harvesting for wearable electronics. Proceedings of SPIE, 2017, , .	0.8	0
84	Metamaterial piezoelectric beam with synthetic impedance shunts. Proceedings of SPIE, 2017, , .	0.8	1
85	Size effects in piezoelectric cantilevers at submicron thickness levels due to flexoelectricity. Proceedings of SPIE, 2017, , .	0.8	1
86	Toward structurally integrated locally resonant metamaterials for vibration attenuation. , 2017, , .		2
87	On the efficiency of piezoelectric energy harvesters. Extreme Mechanics Letters, 2017, 15, 26-37.	2.0	141
88	Omni-directional lens for structure-borne wave focusing and energy harvesting. , 2017, , .		1
89	A general theory for bandgap estimation in locally resonant metastructures. Journal of Sound and Vibration, 2017, 406, 104-123.	2.1	176
90	3D-printed lens for structure-borne wave focusing and energy harvesting. , 2017, , .		1

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91	Modeling and Characterization of a Curved Piezoelectric Energy Harvester for Smart Paver Tiles. Procedia Computer Science, 2017, 109, 1060-1066.	1.2	9
92	Low-Frequency Elastic Wave Focusing and Harvesting via Locally Resonant Metamaterials. , 2017, , .		3
93	Multifunctional Energy Harvesting Locally Resonant Metastructures. , 2017, , .		3
94	Nonlinear Structural Dynamics of Macro-Fiber Composite Cantilevers for Resonant Actuation. , 2017, , .		2
95	Dynamics of Hybrid Mechanical-Electromechanical Locally Resonant Piezoelectric Metastructures. , 2017, , .		3
96	Resonant Nonlinearities of Macro-Fiber Composite Cantilevers in Energy Harvesting. , 2017, , .		1
97	On the Origin of the Nonclassical Softening Nonlinearity in MEMS/NEMS Cantilevers. , 2017, , .		1
98	Structurally embedded reflectors and mirrors for elastic wave focusing and energy harvesting. Journal of Applied Physics, 2017, 122, .	1.1	22
99	Phononic crystal Luneburg lens for omnidirectional elastic wave focusing and energy harvesting. Applied Physics Letters, 2017, 111, .	1.5	133
100	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.	1.4	33
101	An investigation of electroelastic bandgap formation in locally resonant piezoelectric metastructures. Smart Materials and Structures, 2017, 26, 055029.	1.8	98
102	Embedded elastic wave mirrors for enhanced energy harvesting. , 2016, , .		2
103	Electroelastic Bandgap Formation in Locally Resonant Metamaterial Beams With Piezoelectric Shunts: A Modal Analysis Approach. , 2016, , .		0
104	Dramatic Enhancement of Elastic Wave Energy Harvesting Using a Gradient-Index Phononic Crystal Lens. , 2016, , .		2
105	Gradient-index phononic crystal lens-based enhancement of elastic wave energy harvesting. Applied Physics Letters, 2016, 109, .	1.5	127
106	On the mechanism of bandgap formation in locally resonant finite elastic metamaterials. Journal of Applied Physics, 2016, 120, .	1.1	182
107	A Distributed-Parameter Flexoelectric Energy Harvester Model Accounting for Two-Way Coupling and Size Effects. , 2016, , .		2
108	On the Optimal Piezoelectric Material Distribution in Energy Harvesting From a Nonlinear Beam Under Axial Flow. , 2016, , .		0

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109	Suppression of Nonlinear Bifurcations in Flexible Structures Using Nonlinear Switching Shunt Damping Circuits. , 2016, , .		0
110	Dramatic effect of fluid damping on the performance of a nonlinear M-shaped broadband energy harvester. , 2016, , .		0
111	Multiple piezo-patch energy harvesters integrated to a thin plate with AC-DC conversion: analytical modeling and numerical validation. Proceedings of SPIE, 2016, , .	0.8	1
112	Equivalent circuit modeling of a piezo-patch energy harvester on a thin plate with AC-DC conversion. Smart Materials and Structures, 2016, 25, 055015.	1.8	33
113	Exploiting material softening in hard PZTs for resonant bandwidth enhancement. , 2016, , .		0
114	Power conditioning for low-voltage piezoelectric stack energy harvesters. , 2016, , .		3
115	In vacuo elastodynamics of a flexible cantilever for wideband energy harvesting. , 2016, , .		0
116	Electrohydroelastic Euler-Bernoulli-Morison model for underwater resonant actuation of macro-fiber composite piezoelectric cantilevers. Smart Materials and Structures, 2016, 25, 105007.	1.8	35
117	Figure of merit comparison of PP-based electret and PVDF-based piezoelectric polymer energy harvesters. Proceedings of SPIE, 2016, , .	0.8	5
118	Random vibration energy harvesting on thin plates using multiple piezopatches. Journal of Intelligent Material Systems and Structures, 2016, 27, 2744-2756.	1.4	27
119	Piezoelectric power extraction from bending waves: Electroelastic modeling, experimental validation, and performance enhancement. Wave Motion, 2016, 60, 20-34.	1.0	7
120	Hydrodynamic Thrust Generation and Power Consumption Investigations for Piezoelectric Fins With Different Aspect Ratios. , 2015, , .		1
121	Nonlinear Two-to-One Internal Resonance for Broadband Energy Harvesting. , 2015, , .		0
122	Hydrodynamic thrust generation and power consumption investigations for piezoelectric fins with different aspect ratios. European Physical Journal: Special Topics, 2015, 224, 3419-3434.	1.2	16
123	Experimentally Validated Nonlinear Electrohydroelastic Euler-Bernoulli-Morison Model for Macro-Fiber Composites With Different Aspect Ratios. , 2015, , .		5
124	Macro-Fiber Composite Actuated Piezoelectric Robotic Fish. Springer Tracts in Mechanical Engineering, 2015, , 255-283.	0.1	11
125	Hydraulic pressure energy harvester enhanced by Helmholtz resonator. Proceedings of SPIE, 2015, , .	0.8	3
126	Harmonic Balance Analysis and Experimental Validation of a Nonlinear Broadband Piezoelectric Energy Harvester for Low Ambient Vibrations. , 2015, , .		1

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127	Equivalent Circuit Modeling of Patch-Based Piezoelectric Energy Harvesting on Plate-Like Structures With AC-DC Conversion. , 2015, , .		1
128	Fourier transform-based design of a patterned piezoelectric energy harvester integrated with an elastoacoustic mirror. Applied Physics Letters, 2015, 106, .	1.5	32
129	Nonlinear M-shaped broadband piezoelectric energy harvester for very low base accelerations: primary and secondary resonances. Smart Materials and Structures, 2015, 24, 055021.	1.8	95
130	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
131	An experimentally validated contactless acoustic energy transfer model with resistive-reactive electrical loading. Proceedings of SPIE, 2015, , .	0.8	4
132	Unified electrohydroelastic investigation of underwater energy harvesting and dynamic actuation by incorporating Morison's equation. , 2015, , .		2
133	Bimorph disk piezoelectric energy harvester under base excitation: electroelastic modeling and experimental validation. Proceedings of SPIE, 2015, , .	0.8	4
134	Broadband performance of a patterned piezoelectric energy harvester integrated with a continuous elastoacoustic mirror. , 2015, , .		0
135	Ultrasonic power transfer from a spherical acoustic wave source to a free-free piezoelectric receiver: Modeling and experiment. Journal of Applied Physics, 2015, 117, .	1.1	49
136	Internal resonance for nonlinear vibration energy harvesting. European Physical Journal: Special Topics, 2015, 224, 2867-2880.	1.2	104
137	Three-Degree-of-Freedom Hybrid Piezoelectric-Inductive Aeroelastic Energy Harvester Exploiting a Control Surface. AIAA Journal, 2015, 53, 394-404.	1.5	48
138	Unified nonlinear electroelastic dynamics of a bimorph piezoelectric cantilever for energy harvesting, sensing, and actuation. Nonlinear Dynamics, 2015, 79, 1727-1743.	2.7	151
139	Electrohydroelastic dynamics of macro-fiber composites for underwater energy harvesting from base excitation. Proceedings of SPIE, 2014, , .	0.8	4
140	Contactless Ultrasonic Energy Transfer: Acoustic-Piezoelectric Structure Interaction Modeling and Performance Enhancement. , 2014, , .		0
141	Design and Modeling of Hydraulic Pressure Energy Harvesters for Low Dynamic Pressure Environments. , 2014, , .		1
142	Closure to "Discussion of "On the Role of Nonlinearities in Energy Harvesting: A Critical Review and Discussion" (Daqaq, M., Masana, R., Erturk, A., and Quinn, D. D., 2014, ASME Appl. Mech. Rev., 66(4), p.) Tj E10 q0 0 0 gBT /Overl		4
143	Modeling and Characterization of Elastic, Coupling, and Dissipative Nonlinearities in PZT Bimorphs for Vibration Energy Harvesting. , 2014, , .		2
144	Underwater Dynamic Actuation of Macro-Fiber Composite Flaps With Different Aspect Ratios: Electrohydroelastic Modeling, Testing, and Characterization. , 2014, , .		6

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145	Nonlinear Dissipative Electroelastic Dynamics of an M-Shaped Broadband Piezoelectric Energy Harvester. , 2014, , .		0
146	On the Role of Nonlinearities in Vibratory Energy Harvesting: A Critical Review and Discussion. Applied Mechanics Reviews, 2014, 66, .	4.5	632
147	Contactless ultrasonic energy transfer for wireless systems: acoustic-piezoelectric structure interaction modeling and performance enhancement. Smart Materials and Structures, 2014, 23, 125032.	1.8	49
148	Analytical modeling and experimental validation of a structurally integrated piezoelectric energy harvester on a thin plate. Smart Materials and Structures, 2014, 23, 045039.	1.8	69
149	Optimal piezoelectric energy harvesting using elastoacoustic mirrors by frequency-wavenumber domain investigation. , 2014, , .		1
150	Modeling and enhancement of piezoelectric power extraction from one-dimensional bending waves. , 2014, , .		0
151	Nonlinear modeling, strength-based design, and testing of flexible piezoelectric energy harvesters under large dynamic loads for rotorcraft applications. , 2014, , .		0
152	Global nonlinear electroelastic dynamics of a bimorph piezoelectric cantilever for energy harvesting, sensing, and actuation. , 2014, , .		0
153	Broadband and band-limited random vibration energy harvesting using a piezoelectric patch on a thin plate. , 2014, , .		1
154	Ultrasound acoustic wave energy transfer and harvesting. Proceedings of SPIE, 2014, , .	0.8	1
155	Deterministic and band-limited stochastic energy harvesting from uniaxial excitation of a multilayer piezoelectric stack. Sensors and Actuators A: Physical, 2014, 214, 58-65.	2.0	77
156	Power performance improvements for high pressure ripple energy harvesting. Smart Materials and Structures, 2014, 23, 104011.	1.8	28
157	Piezoelectret foam-based vibration energy harvesting. Journal of Intelligent Material Systems and Structures, 2014, 25, 1681-1692.	1.4	91
158	Multiple patch-based broadband piezoelectric energy harvesting on plate-based structures. Journal of Intelligent Material Systems and Structures, 2014, 25, 1664-1680.	1.4	32
159	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.	2.1	115
160	Nanoscale flexoelectric energy harvesting. International Journal of Solids and Structures, 2014, 51, 3218-3225.	1.3	289
161	Bio-inspired aquatic robotics by untethered piezohydroelastic actuation. Bioinspiration and Biomimetics, 2013, 8, 016006.	1.5	85
162	Transduction as energy conversion; harvesting of acoustic energy in hydraulic systems. Proceedings of Meetings on Acoustics, 2013, , .	0.3	6

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163	Numerical and experimental comparison of bistable and monostable vibration energy harvesters under broadband random excitation. , 2013, , .		1
164	Advances in Energy Harvesting Methods. , 2013, , .		191
165	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.	1.4	78
166	Introduction and Methods of Mechanical Energy Harvesting. , 2013, , 3-14.		9
167	Airfoil-Based Linear and Nonlinear Electroaeroelastic Energy Harvesting. , 2013, , 269-294.		1
168	Design and performance enhancement of hydraulic pressure energy harvesting systems. Proceedings of SPIE, 2013, , .	0.8	3
169	Energy harvesting from hydraulic pressure fluctuations. Smart Materials and Structures, 2013, 22, 025036.	1.8	74
170	Hybrid piezoelectric-inductive flow energy harvesting and dimensionless electroaeroelastic analysis for scaling. Applied Physics Letters, 2013, 102, .	1.5	78
171	Enhanced broadband piezoelectric energy harvesting using rotatable magnets. Applied Physics Letters, 2013, 102, .	1.5	297
172	Electroaeroelastic modeling and analysis of a hybrid piezoelectric-inductive flow energy harvester. , 2013, , .		2
173	Electroelastic modeling and experimental validations of piezoelectric energy harvesting from broadband random vibrations of cantilevered bimorphs. Smart Materials and Structures, 2013, 22, 015002.	1.8	84
174	Metamaterial-inspired structures and concepts for elastoacoustic wave energy harvesting. Smart Materials and Structures, 2013, 22, 065004.	1.8	179
175	Energy harvesting from harmonic and noise excitation of multilayer piezoelectric stacks: modeling and experiment. Proceedings of SPIE, 2013, , .	0.8	9
176	Harvesting of Bending Waves in One-Dimensional Infinite Beams Using Resistive-Reactive Circuits. , 2013, , .		2
177	An Experimental Investigation Into the Performance of a T-Shaped Piezoelectric Flow Energy Harvester. , 2013, , .		0
178	Power Density Performance Improvements for High Pressure Ripple Energy Harvesting. , 2013, , .		1
179	Electroelastic Finite Element Modeling and Experimental Validation of Structurally-Integrated Piezoelectric Energy Harvester. , 2013, , .		0
180	Adaptive and active materials: selected papers from the ASME 2012 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 12) (Stone Mountain, GA, USA, 19â€“21 September) Tj ETQq0.0 0 rgBT/Overlock		0

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181	On the stochastic excitation of monostable and bistable electroelastic power generators: Relative advantages and tradeoffs in a physical system. Applied Physics Letters, 2013, 102, .	1.5	102
182	Multifunctional double-bimorph piezoelectric composite for bending-twisting actuation, adaptive stiffness change, and energy harvesting. , 2013, , .		1
183	Dimensionless analysis and scaling of a hybrid 3DOF airfoil-based piezoelectric-inductive aeroelastic energy harvester. , 2013, , .		0
184	Design Tool for Prediction of Thermal Synchronous Instability. , 2013, , .		3
185	Vibration of Bending-Torsion Coupled Resonance in a Rotor. , 2013, , .		1
186	Mathematical Insights of Mode Localization in Nearly Cyclic Symmetric Rotors With Mistune. , 2013, , .		0
187	Multiple Patch-Based Piezoelectric Energy Harvesting From Multiple Vibration Modes of Thin Plates. , 2013, , .		0
188	Dramatic enhancement of structure-borne wave energy harvesting using an elliptical acoustic mirror. Applied Physics Letters, 2012, 100, .	1.5	75
189	Multifunctional Unmanned Aerial Vehicle Wing Spar for Low-Power Generation and Storage. Journal of Aircraft, 2012, 49, 292-301.	1.7	55
190	Energy Harvesting From Broadband Random Vibrations: Comparison of Single-Mode and Multi-Mode Electroelastic Solutions. , 2012, , .		0
191	Comparative Investigation of the Electroelastic Dynamics of Piezoceramics With Interdigitated and Uniform Electrodes. , 2012, , .		2
192	Electroelastic Modeling and Experimental Validation of Piezoelectric Energy Harvesting From Broadband Random Vibrations. , 2012, , .		1
193	Metamaterial Concepts for Structure-Borne Wave Energy Harvesting: Focusing, Funneling, and Localization. , 2012, , .		1
194	Energy Harvesting From Hydraulic Pressure Fluctuations. , 2012, , .		4
195	Fish-Like Self Propulsion Using Flexible Piezoelectric Composites. , 2012, , .		2
196	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.	1.7	37
197	Nonlinear nonconservative behavior and modeling of piezoelectric energy harvesters including proof mass effects. Journal of Intelligent Material Systems and Structures, 2012, 23, 183-199.	1.4	115
198	Piezoelectric, solar and thermal energy harvesting for hybrid low-power generator systems with thin-film batteries. Measurement Science and Technology, 2012, 23, 015101.	1.4	53

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199	Assumed-modes modeling of piezoelectric energy harvesters: Euler-Bernoulli, Rayleigh, and Timoshenko models with axial deformations. <i>Computers and Structures</i> , 2012, 106-107, 214-227.	2.4	94
200	Two Architectures for Bending-Twisting Flapping Using Macro-Fiber Composites. , 2012, , .		0
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