

Stephen Beeby

List of Publications by Year in descending order

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294
papers

12,739
citations

41258

49
h-index

27345

106
g-index

301
all docs

301
docs citations

301
times ranked

8598
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy harvesting vibration sources for microsystems applications. Measurement Science and Technology, 2006, 17, R175-R195.	1.4	2,502
2	A micro electromagnetic generator for vibration energy harvesting. Journal of Micromechanics and Microengineering, 2007, 17, 1257-1265.	1.5	1,203
3	An electromagnetic, vibration-powered generator for intelligent sensor systems. Sensors and Actuators A: Physical, 2004, 110, 344-349.	2.0	644
4	Strategies for increasing the operating frequency range of vibration energy harvesters: a review. Measurement Science and Technology, 2010, 21, 022001.	1.4	483
5	Design and fabrication of a new vibration-based electromechanical power generator. Sensors and Actuators A: Physical, 2001, 92, 335-342.	2.0	372
6	Towards a piezoelectric vibration-powered microgenerator. IET Science, Measurement and Technology, 2001, 148, 68.	0.7	275
7	Review of the application of energy harvesting in buildings. Measurement Science and Technology, 2014, 25, 012002.	1.4	217
8	Self-powered autonomous wireless sensor node using vibration energy harvesting. Measurement Science and Technology, 2008, 19, 125202.	1.4	207
9	Recent progress on textile-based triboelectric nanogenerators. Nano Energy, 2019, 55, 401-423.	8.2	184
10	A novel thick-film piezoelectric micro-generator. Smart Materials and Structures, 2001, 10, 850-852.	1.8	168
11	Design and experimental characterization of a tunable vibration-based electromagnetic micro-generator. Sensors and Actuators A: Physical, 2010, 158, 284-293.	2.0	165
12	Inkjet-Printed Microstrip Patch Antennas Realized on Textile for Wearable Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 71-74.	2.4	147
13	Optimization of an Electromagnetic Energy Harvesting Device. IEEE Transactions on Magnetics, 2006, 42, 3509-3511.	1.2	145
14	A silicon microfluidic ultrasonic separator. Sensors and Actuators B: Chemical, 2003, 95, 425-434.	4.0	133
15	A Flexible 2.45-GHz Power Harvesting Wristband With Net System Output From ~ 24.3 dBm of RF Power. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 380-395.	2.9	121
16	Design, fabrication and test of integrated micro-scale vibration-based electromagnetic generator. Sensors and Actuators A: Physical, 2008, 145-146, 336-342.	2.0	118
17	An investigation of self-powered systems for condition monitoring applications. Sensors and Actuators A: Physical, 2004, 110, 171-176.	2.0	109
18	A Novel Thick-Film Piezoelectric Slip Sensor for a Prosthetic Hand. IEEE Sensors Journal, 2007, 7, 752-761.	2.4	104

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19	Inkjet printed dipole antennas on textiles for wearable communications. IET Microwaves, Antennas and Propagation, 2013, 7, 760-767.	0.7	104
20	Experimental investigation into the effect of substrate clamping on the piezoelectric behaviour of thick-film PZT elements. Journal Physics D: Applied Physics, 2004, 37, 1074-1078.	1.3	101
21	Waterproof and durable screen printed silver conductive tracks on textiles. Textile Reseach Journal, 2013, 83, 2023-2031.	1.1	99
22	Processing of PZT piezoelectric thick films on silicon for microelectromechanical systems. Journal of Micromechanics and Microengineering, 1999, 9, 218-229.	1.5	95
23	Flexible screen printed thermoelectric generator with enhanced processes and materials. Sensors and Actuators A: Physical, 2016, 238, 196-206.	2.0	94
24	Screen printed fabric electrode array for wearable functional electrical stimulation. Sensors and Actuators A: Physical, 2014, 213, 108-115.	2.0	90
25	Flexible piezoelectric nano-composite films for kinetic energy harvesting from textiles. Nano Energy, 2017, 33, 146-156.	8.2	89
26	The development of screen printed conductive networks on textiles for biopotential monitoring applications. Sensors and Actuators A: Physical, 2014, 206, 35-41.	2.0	88
27	The effect of the type of illumination on the energy harvesting performance of solar cells. Solar Energy, 2015, 111, 21-29.	2.9	87
28	Microelectromechanical systems vibration powered electromagnetic generator for wireless sensor applications. Microsystem Technologies, 2006, 12, 1071-1077.	1.2	83
29	A Smart Textile Based Facial EMG and EOG Computer Interface. IEEE Sensors Journal, 2014, 14, 393-400.	2.4	79
30	A novel multi-degree-of-freedom thick-film ultrasonic motor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 151-158.	1.7	74
31	Integrating Flexible Filament Circuits for E-textile Applications. Advanced Materials Technologies, 2019, 4, 1900176.	3.0	74
32	Broadband Millimeter-Wave Textile-Based Flexible Rectenna for Wearable Energy Harvesting. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4960-4972.	2.9	74
33	A credit card sized self powered smart sensor node. Sensors and Actuators A: Physical, 2011, 169, 317-325.	2.0	73
34	Vibration energy harvesting using the Halbach array. Smart Materials and Structures, 2012, 21, 075020.	1.8	70
35	Rectennas for Radio-Frequency Energy Harvesting and Wireless Power Transfer: A Review of Antenna Design [Antenna Applications Corner]. IEEE Antennas and Propagation Magazine, 2020, 62, 95-107.	1.2	68
36	Vibration based electromagnetic micropower generator on silicon. Journal of Applied Physics, 2006, 99, 08P511.	1.1	66

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37	Novel active electrodes for ECG monitoring on woven textiles fabricated by screen and stencil printing. <i>Sensors and Actuators A: Physical</i> , 2015, 221, 60-66.	2.0	66
38	Textile-based triboelectric nanogenerator with alternating positive and negative freestanding grating structure. <i>Nano Energy</i> , 2019, 66, 104148.	8.2	66
39	Screen Printable Flexible BiTe/SbTe-Based Composite Thermoelectric Materials on Textiles for Wearable Applications. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 4024-4030.	1.6	61
40	The good, the bad and the porous: A review of carbonaceous materials for flexible supercapacitor applications. <i>Energy Reports</i> , 2020, 6, 148-156.	2.5	60
41	Electromagnetic Energy Harvesting. , 2009, , 129-161.		59
42	Printed frequency selective surfaces on textiles. <i>Electronics Letters</i> , 2014, 50, 916-917.	0.5	59
43	A comparison of power output from linear and nonlinear kinetic energy harvesters using real vibration data. <i>Smart Materials and Structures</i> , 2013, 22, 075022.	1.8	57
44	Fully spray-coated organic solar cells on woven polyester cotton fabrics for wearable energy harvesting applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5561-5568.	5.2	57
45	Solid-State Supercapacitor Fabricated in a Single Woven Textile Layer for E-Textiles Applications. <i>Advanced Engineering Materials</i> , 2018, 20, 1700860.	1.6	53
46	A multilayer thick-film PZT actuator for MEMs applications. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 311-316.	2.0	52
47	Screen printed flexible Bi ₂ Te ₃ -Sb ₂ Te ₃ -based thermoelectric generator. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012031.	0.3	52
48	Dual-Band Dual-Mode Textile Antenna/Rectenna for Simultaneous Wireless Information and Power Transfer (SWIPT). <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 6322-6332.	3.1	52
49	Scaling effects for electromagnetic vibrational power generators. <i>Microsystem Technologies</i> , 2007, 13, 1637-1645.	1.2	51
50	Increasing output power of electromagnetic vibration energy harvesters using improved Halbach arrays. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 11-19.	2.0	51
51	Fabrication Techniques for Manufacturing Flexible Coils on Textiles for Inductive Power Transfer. <i>IEEE Sensors Journal</i> , 2018, 18, 2599-2606.	2.4	51
52	E-Textiles for Healthy Ageing. <i>Sensors</i> , 2019, 19, 4463.	2.1	51
53	Development of User-Friendly Wearable Electronic Textiles for Healthcare Applications. <i>Sensors</i> , 2018, 18, 2410.	2.1	49
54	Thick-film force, slip and temperature sensors for a prosthetic hand. <i>Measurement Science and Technology</i> , 2005, 16, 931-941.	1.4	47

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55	Thick-film piezoceramics and devices. <i>Journal of Electroceramics</i> , 2007, 19, 97-112.	0.8	47
56	Experimental comparison of macro and micro scale electromagnetic vibration powered generators. <i>Microsystem Technologies</i> , 2007, 13, 1647-1653.	1.2	47
57	Novel Miniature Airflow Energy Harvester for Wireless Sensing Applications in Buildings. <i>IEEE Sensors Journal</i> , 2013, 13, 691-700.	2.4	45
58	An investigation into the durability of screen-printed conductive tracks on textiles. <i>Measurement Science and Technology</i> , 2014, 25, 025006.	1.4	45
59	Omnidirectional Dual-Polarized Low-Profile Textile Rectenna With Over 50% Efficiency for Sub- $\frac{1}{4}$ W/cm ² Wearable Power Harvesting. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 2522-2536.	3.1	45
60	Thick-film force and slip sensors for a prosthetic hand. <i>Sensors and Actuators A: Physical</i> , 2005, 123-124, 162-171.	2.0	44
61	Millimeter-Wave Power Harvesting: A Review. <i>IEEE Open Journal of Antennas and Propagation</i> , 2020, 1, 560-578.	2.5	43
62	Design and fabrication of a micromachined silicon accelerometer with thick-film printed PZT sensors. <i>Journal of Micromechanics and Microengineering</i> , 2000, 10, 322-328.	1.5	42
63	Optimization of the Electrodeposition Process of High-Performance Bismuth Antimony Telluride Compounds for Thermoelectric Applications. <i>Langmuir</i> , 2010, 26, 16980-16985.	1.6	41
64	Energy harvesting study on single and multilayer ferroelectret foams under compressive force. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2015, 22, 1360-1368.	1.8	40
65	Encapsulated Textile Organic Solar Cells Fabricated by Spray Coating. <i>ChemistrySelect</i> , 2019, 4, 407-412.	0.7	40
66	E-Textile Technology Reviewâ€œFrom Materials to Application. <i>IEEE Access</i> , 2021, 9, 97152-97179.	2.6	40
67	Reliable UHF Long-Range Textile-Integrated RFID Tag Based on a Compact Flexible Antenna Filament. <i>Sensors</i> , 2020, 20, 3435.	2.1	38
68	An investigation into the effect of modified firing profiles on the piezoelectric properties of thick-film PZT layers on silicon. <i>Measurement Science and Technology</i> , 2000, 11, 526-531.	1.4	37
69	Improving the piezoelectric properties of thick-film PZT: the influence of paste composition, powder milling process and electrode material. <i>Sensors and Actuators A: Physical</i> , 2004, 110, 378-384.	2.0	37
70	Flexible Printed Monolithic-Structured Solid-State Dye Sensitized Solar Cells on Woven Glass Fibre Textile for Wearable Energy Harvesting Applications. <i>Scientific Reports</i> , 2019, 9, 1362.	1.6	37
71	RF-Powered Wearable Energy Harvesting and Storage Module Based on E-Textile Coplanar Waveguide Rectenna and Supercapacitor. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 302-314.	2.5	37
72	Textile-based triboelectric nanogenerator with alternating positive and negative freestanding woven structure for harvesting sliding energy in all directions. <i>Nano Energy</i> , 2022, 92, 106739.	8.2	36

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73	Screen printing of a capacitive cantilever-based motion sensor on fabric using a novel sacrificial layer process for smart fabric applications. <i>Measurement Science and Technology</i> , 2013, 24, 075104.	1.4	35
74	Screen Printed Dye-Sensitized Solar Cells (DSSCs) on Woven Polyester Cotton Fabric for Wearable Energy Harvesting Applications. <i>Materials Today: Proceedings</i> , 2018, 5, 13753-13758.	0.9	35
75	Rolling mass energy harvester for very low frequency of input vibrations. <i>Mechanical Systems and Signal Processing</i> , 2019, 125, 215-228.	4.4	35
76	Millimeter-Wave Textile Antenna for on-Body RF Energy Harvesting in Future 5G Networks. , 2019, , .		35
77	A dual frequency, ultrasonic, microengineered particle manipulator. <i>Ultrasonics</i> , 2004, 42, 139-144.	2.1	34
78	Kinetic Energy Harvesting. , 2011, , 1-77.		33
79	General model with experimental validation of electrical resonant frequency tuning of electromagnetic vibration energy harvesters. <i>Smart Materials and Structures</i> , 2012, 21, 105039.	1.8	33
80	Flexible 2.4 GHz Node for Body Area Networks With a Compact High-Gain Planar Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 49-53.	2.4	33
81	High density p-type Bi _{0.5} Sb _{1.5} Te ₃ nanowires by electrochemical templating through ion-track lithography. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3584.	1.3	32
82	Improving Output Power of Piezoelectric Energy Harvesters using Multilayer Structures. <i>Procedia Engineering</i> , 2011, 25, 199-202.	1.2	31
83	Flexible screen printed thick film thermoelectric generator with reduced material resistivity. <i>Journal of Physics: Conference Series</i> , 2014, 557, 012016.	0.3	31
84	Magnetic tuning of a kinetic energy harvester using variable reluctance. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 266-275.	2.0	30
85	Towards a nanostructured thermoelectric generator using ion-track lithography. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 104015.	1.5	29
86	An all-inkjet printed flexible capacitor on a textile using a new poly(4-vinylphenol) dielectric ink for wearable applications. , 2012, , .		29
87	Temperature dependence of a magnetically levitated electromagnetic vibration energy harvester. <i>Sensors and Actuators A: Physical</i> , 2017, 256, 1-11.	2.0	29
88	Energy-harvesting materials for smart fabrics and textiles. <i>MRS Bulletin</i> , 2018, 43, 214-219.	1.7	29
89	Investigation of Low Temperature Processed Titanium Dioxide (TiO ₂) Films for Printed Dye Sensitized Solar Cells (DSSCs) for Large Area Flexible Applications. <i>Materials Today: Proceedings</i> , 2018, 5, 13846-13854.	0.9	29
90	Dual-Polarized Wearable Antenna/Rectenna for Full-Duplex and MIMO Simultaneous Wireless Information and Power Transfer (SWIPT). <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 844-857.	2.5	29

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91	Thick film PZT/micromachined silicon accelerometer. Electronics Letters, 1999, 35, 2060.	0.5	28
92	Micromachined silicon resonant strain gauges fabricated using SOI wafer technology. Journal of Microelectromechanical Systems, 2000, 9, 104-111.	1.7	28
93	Time constant and lateral resonances of thermal vertical bimorph actuators. Journal of Micromechanics and Microengineering, 2002, 12, 410-413.	1.5	28
94	Meshed High-Impedance Matching Network-Free Rectenna Optimized for Additive Manufacturing. IEEE Open Journal of Antennas and Propagation, 2020, 1, 615-626.	2.5	28
95	Modelling and optimization of micromachined silicon resonators. Journal of Micromechanics and Microengineering, 1995, 5, 103-105.	1.5	27
96	A tunable kinetic energy harvester with dynamic over range protection. Smart Materials and Structures, 2010, 19, 115005.	1.8	27
97	Wearable EEG headband using printed electrodes and powered by energy harvesting for emotion monitoring in ambient assisted living. Smart Materials and Structures, 2015, 24, 125028.	1.8	27
98	Autonomous Low Power Microsystem Powered by Vibration Energy Harvesting. , 2007, , .		26
99	Solution Processed Organic Solar Cells on Textiles. IEEE Journal of Photovoltaics, 2018, 8, 1710-1715.	1.5	26
100	Screen-printed piezoelectric shoe-insole energy harvester using an improved flexible PZT-polymer composites. Journal of Physics: Conference Series, 2013, 476, 012108.	0.3	24
101	Fuzzy logic based emotion classification. , 2014, , .		24
102	Embedded Capacitive Proximity and Touch Sensing Flexible Circuit System for Electronic Textile and Wearable Systems. IEEE Sensors Journal, 2019, 19, 6975-6985.	2.4	24
103	HeLa Cell Transfection Using a Novel Sonoporation System. IEEE Transactions on Biomedical Engineering, 2011, 58, 927-934.	2.5	23
104	An easy to assemble ferroelectret for human body energy harvesting. Smart Materials and Structures, 2018, 27, 084005.	1.8	23
105	Modified PDMS packaging of sensory e-textile circuit microsystems for improved robustness with washing. Microsystem Technologies, 2022, 28, 1467-1484.	1.2	23
106	Wearable Textile Power Module Based on Flexible Ferroelectret and Supercapacitor. Energy Technology, 2019, 7, 1800938.	1.8	23
107	Performance of a micro-engineered ultrasonic particle manipulator. Sensors and Actuators B: Chemical, 2005, 111-112, 481-486.	4.0	22
108	An improved thick-film piezoelectric material by powder blending and enhanced processing parameters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 10-16.	1.7	22

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109	Screen Printed PZT Thick Films Using Composite Film Technology. Integrated Ferroelectrics, 2003, 54, 651-658.	0.3	21
110	Processing of Printed Dye Sensitized Solar Cells on Woven Textiles. IEEE Journal of Photovoltaics, 2019, 9, 1020-1024.	1.5	21
111	Real-World Performance of Sub-1 GHz and 2.4 GHz Textile Antennas for RF-Powered Body Area Networks. IEEE Access, 2020, 8, 133746-133756.	2.6	21
112	Wash Testing of Electronic Yarn. Materials, 2020, 13, 1228.	1.3	21
113	Microprocessor implemented self-validation of thick-film PZT/silicon accelerometer. Sensors and Actuators A: Physical, 2001, 92, 168-174.	2.0	19
114	A screen printable sacrificial fabrication process to realise a cantilever on fabric using a piezoelectric layer to detect motion for wearable applications. Sensors and Actuators A: Physical, 2013, 203, 241-248.	2.0	19
115	Wearable and autonomous computing for future smart cities: Open challenges. , 2017, , .		19
116	Thick-film magnetostrictive material for MEMS. Electronics Letters, 2000, 36, 332.	0.5	18
117	Screen Printed PZT Composite Thick Films. Integrated Ferroelectrics, 2004, 63, 89-92.	0.3	18
118	The biometric potential of transient otoacoustic emissions. International Journal of Biometrics, 2009, 1, 349.	0.3	18
119	Controlled modification of resonant tunneling in metal-insulator-insulator-metal structures. Applied Physics Letters, 2018, 112, .	1.5	18
120	Design and fabrication of thick-film PZT-metallic triple beam resonators. Sensors and Actuators A: Physical, 2004, 115, 401-407.	2.0	17
121	Self powered wireless sensors for condition monitoring applications. Sensor Review, 2009, 29, 38-43.	1.0	17
122	Real time eye blink noise removal from EEG signals using morphological component analysis. , 2013, 2013, 13-6.		17
123	An Evaluation of Otoacoustic Emissions as a Biometric. IEEE Transactions on Information Forensics and Security, 2013, 8, 174-183.	4.5	17
124	A novel fabrication process to realize a valveless micropump on a flexible substrate. Smart Materials and Structures, 2014, 23, 025034.	1.8	17
125	Silicon micromechanical resonator with thick-film printed vibration excitation and detection mechanisms. Sensors and Actuators A: Physical, 2001, 88, 189-197.	2.0	16
126	A method to determine the ageing rate of thick-film PZT layers. Measurement Science and Technology, 2001, 12, 663-670.	1.4	16

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127	Multilayer ferroelectret-based energy harvesting insole. Journal of Physics: Conference Series, 2015, 660, 012118.	0.3	16
128	High-Efficiency Sub-1 GHz Flexible Compact Rectenna based on Parametric Antenna-Rectifier Co-Design. , 2020, , .		16
129	Textile-Based Flexible Coils for Wireless Inductive Power Transmission. Applied Sciences (Switzerland), 2018, 8, 912.	1.3	15
130	Novel Electronic Packaging Method for Functional Electronic Textiles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 216-225.	1.4	15
131	Integration and Testing of a Three-Axis Accelerometer in a Woven E-Textile Sleeve for Wearable Movement Monitoring. Sensors, 2020, 20, 5033.	2.1	15
132	Millimeter-Wave Power Transmission for Compact and Large-Area Wearable IoT Devices Based on a Higher Order Mode Wearable Antenna. IEEE Internet of Things Journal, 2022, 9, 5229-5239.	5.5	15
133	A broadband electromagnetic energy harvester with a coupled bistable structure. Journal of Physics: Conference Series, 2013, 476, 012070.	0.3	14
134	Novel screen printed humidity sensor on textiles for smart textile applications. , 2013, , .		13
135	An investigation of PDMS structures for optimized ferroelectret performance. Journal of Physics: Conference Series, 2014, 557, 012104.	0.3	13
136	Clamping effect on the piezoelectric responses of screen-printed low temperature PZT/Polymer films on flexible substrates. Smart Materials and Structures, 2015, 24, 115030.	1.8	13
137	A 2.45 GHz rectenna screen-printed on polycotton for on-body RF power transfer and harvesting. , 2015, , .		13
138	A printed, dry electrode Frank configuration vest for ambulatory vectorcardiographic monitoring. Smart Materials and Structures, 2017, 26, 025029.	1.8	13
139	Smart Textiles for Smart Home Control and Enriching Future Wireless Sensor Network Data. Smart Sensors, Measurement and Instrumentation, 2017, , 159-183.	0.4	13
140	Broadband Compact Substrate-Independent Textile Wearable Antenna for Simultaneous Near- and Far-Field Wireless Power Transmission. IEEE Open Journal of Antennas and Propagation, 2022, 3, 398-411.	2.5	13
141	Thick-film PZT-metallic triple beam resonator. Electronics Letters, 2003, 39, 982.	0.5	12
142	Fluid modelling of microfluidic separator channels. Sensors and Actuators B: Chemical, 2005, 111-112, 455-462.	4.0	12
143	Functional Electronic Screen-printing " Electroluminescent Lamps on Fabric. Procedia Engineering, 2014, 87, 1513-1516.	1.2	12
144	All dispenser printed flexible 3D structured thermoelectric generators. Journal of Physics: Conference Series, 2015, 660, 012096.	0.3	12

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145	Stress Analysis and Optimization of a Flip Chip on Flex Electronic Packaging Method for Functional Electronic Textiles. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 186-194.	1.4	12
146	Modelling and experimental validation of the effect of the elastic properties of fabrics on the durability of screen printed e-textiles. Smart Materials and Structures, 2018, 27, 075046.	1.8	12
147	Fabrication and Test of Integrated Micro-Scale Vibration Based Electromagnetic Generator. , 2007, , .		11
148	Sensory motor systems of artificial and natural hands. International Journal of Surgery, 2007, 5, 436-440.	1.1	11
149	Screen Printed Capacitive Free-standing Cantilever Beams used as a Motion Detector for Wearable Sensors. Procedia Engineering, 2012, 47, 165-169.	1.2	11
150	Fully direct-write dispenser printed dipole antenna on woven polyester cotton fabric for wearable electronics applications. Electronics Letters, 2015, 51, 1306-1308.	0.5	11
151	An electromechanical model of ferroelectret for energy harvesting. Smart Materials and Structures, 2016, 25, 045010.	1.8	11
152	Screen-printed bismuth telluride nanostructured composites for flexible thermoelectric applications. JPhys Energy, 2022, 4, 024003.	2.3	11
153	Performance improvement of a vibration-powered electromagnetic generator by reduced silicon surface roughness. Materials Letters, 2008, 62, 651-654.	1.3	10
154	A novel miniature wind generator for wireless sensing applications. , 2010, , .		10
155	Intermittently-powered energy harvesting step counter for fitness tracking. , 2017, , .		10
156	Vibration of thin-walled ring-stiffened circular cylinders and cones. Thin-Walled Structures, 1994, 18, 177-190.	2.7	9
157	Silicon micromachining processes combined with thick-film printed lead zirconate titanate actuators for microelectromechanical systems. Materials Letters, 1999, 40, 187-191.	1.3	9
158	Design and fabrication of a low-cost microengineered silicon pressure sensor with linearised output. IET Science, Measurement and Technology, 2000, 147, 127-130.	0.7	9
159	Plucked excitation of micromachined silicon DETF resonators. Electronics Letters, 2000, 36, 1119.	0.5	9
160	Acoustic power output measurements for thick-film PZT transducers. Electronics Letters, 2004, 40, 636.	0.5	9
161	Development of nanostructures for thermoelectric microgenerators using ion-track lithography. Electronics Letters, 2008, 44, 500.	0.5	9
162	Durability of screen printed electrical interconnections on woven textiles. , 2015, , .		9

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163	Inductive power transfer in e-textile applications: Reducing the effects of coil misalignment. , 2015, , .		9
164	(Invited) Tunnel-Barrier Rectifiers for Optical Nantennas. ECS Transactions, 2016, 72, 287-299.	0.3	9
165	CNTs-added PMNT/PDMS flexible piezoelectric nanocomposite for energy harvesting application. Integrated Ferroelectrics, 2018, 187, 70-79.	0.3	9
166	Optimized Process of Fully Spray-Coated Organic Solar Cells on Woven Polyester Cotton Fabrics. Materials Today: Proceedings, 2018, 5, 13745-13752.	0.9	9
167	Optimization a structure of MEMS based PDMS ferroelectret for human body energy harvesting and sensing. Smart Materials and Structures, 2019, 28, 075010.	1.8	9
168	Automated insertion of package dies onto wire and into a textile yarn sheath. Microsystem Technologies, 2022, 28, 1409-1421.	1.2	9
169	Screen Printed Flexible Water Activated Battery on Woven Cotton Textile as a Power Supply for E-Textile Applications. IEEE Access, 2020, 8, 206958-206965.	2.6	9
170	The formulation and processing of a thick-film magnetostrictive material. Measurement Science and Technology, 2002, 13, 59-64.	1.4	8
171	An integrated approach to energy harvester modeling and performance optimization. , 2007, , .		8
172	An automated design flow for vibration-based energy harvester systems. , 2009, , .		8
173	A miniature airflow energy harvester from piezoelectric materials. Journal of Physics: Conference Series, 2013, 476, 012057.	0.3	8
174	Energy Neutral Activity Monitoring: Wearables Powered by Smart Inductive Charging Surfaces. , 2016, , .		8
175	Efficient Energy Conversion in Electrically Assisted Bicycles Using a Switched Reluctance Machine Under Torque Control. IEEE Access, 2020, 8, 202401-202411.	2.6	8
176	Spray-Coated Organic Light-Emitting Electrochemical Cells Realized on a Standard Woven Polyester Cotton Textile. IEEE Transactions on Electron Devices, 2021, 68, 1717-1722.	1.6	8
177	Acetonitrile-Free Organic Electrolyte for Textile Supercapacitor Applications. Journal of the Electrochemical Society, 2021, 168, 080520.	1.3	8
178	Design and Modelling of a Vibration-Powered Micro-Generator. Measurement and Control, 2001, 34, 267-271.	0.9	7
179	Effects of the binder material on the mechanical properties of thick-film magnetostrictive materials. Sensors and Actuators A: Physical, 2004, 110, 365-370.	2.0	7
180	A comparison of verification in the temporal and cepstrum-transformed domains of Transient Evoked Otoacoustic Emissions for biometric identification. International Journal of Biometrics, 2011, 3, 246.	0.3	7

#	ARTICLE	IF	CITATIONS
181	Screen printed piezoelectric films for energy harvesting. <i>Advances in Applied Ceramics</i> , 2013, 112, 79-84.	0.6	7
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