Origami-inspired electret-based triboelectric generator energy harvesting

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Citation Report

#	Article	IF	Citations
1	Three-Dimensional Graphene Hydrogel Decorated with SnO ₂ for High-Performance NO ₂ Sensing with Enhanced Immunity to Humidity. ACS Applied Materials & Samp; Interfaces, 2020, 12, 2634-2643.	4.0	70
2	Wearable triboelectric nanogenerators for biomechanical energy harvesting. Nano Energy, 2020, 77, 105303.	8.2	206
3	A stacked electromagnetic energy harvester with frequency up-conversion for swing motion. Applied Physics Letters, 2020, 117 , .	1.5	36
4	Ultrahigh Sensitivity of Flexible Thermistors Based on 3D Porous Graphene Characterized by Imbedded Microheaters. Advanced Electronic Materials, 2020, 6, 2000451.	2.6	7
5	Modeling and analysis of dynamic characteristics of multi-stable waterbomb origami base. Nonlinear Dynamics, 2020, 102, 2339-2362.	2.7	13
6	Miura-origami-inspired electret/triboelectric power generator for wearable energy harvesting with water-proof capability. Microsystems and Nanoengineering, 2020, 6, 56.	3.4	40
7	Origami-tessellation-based triboelectric nanogenerator for energy harvesting with application in road pavement. Nano Energy, 2020, 78, 105177.	8.2	46
8	Harvesting contact-separation-compression vibrations using a flexible and compressible triboelectric generator. Sustainable Energy Technologies and Assessments, 2020, 42, 100869.	1.7	7
9	Exploiting ultralow-frequency energy via vibration-to-rotation conversion of a rope-spun rotor. Energy Conversion and Management, 2020, 225, 113433.	4.4	22
10	Chemical reaction dependency, magnetic field and surfactant effects on the propulsion of diskâ€like micromotor and its application for ⟨i⟩E. coli⟨/i⟩ transportation. Nano Select, 2020, 1, 432-442.	1.9	7
11	A sea snake structure wave power generator for efficiently harvesting ocean wave energy with flexible structure. , 2020, , .		2
12	High-performance cylindrical pendulum shaped triboelectric nanogenerators driven by water wave energy for full-automatic and self-powered wireless hydrological monitoring system. Nano Energy, 2020, 74, 104937.	8.2	89
13	Design, modeling and experimental investigation of a magnetically modulated rotational energy harvester for low frequency and irregular vibration. Science China Technological Sciences, 2020, 63, 2051-2062.	2.0	41
14	Pagoda-Shaped Triboelectric Nanogenerator With High Reliability for Harvesting Vibration Energy and Measuring Vibration Frequency in Downhole. IEEE Sensors Journal, 2020, 20, 13999-14006.	2.4	33
15	Electron transfer mechanism of graphene/Cu heterostructure for improving the stability of triboelectric nanogenerators. Nano Energy, 2020, 70, 104540.	8.2	42
16	A passively self-tuning nonlinear energy harvester in rotational motion: theoretical and experimental investigation. Smart Materials and Structures, 2020, 29, 045033.	1.8	39
17	Modelling and analysis of an out-of-plane electret-based vibration energy harvester with AC and DC circuits. Mechanical Systems and Signal Processing, 2020, 140, 106660.	4.4	28
18	Wearable Device Oriented Flexible and Stretchable Energy Harvester Based on Embedded Liquid-Metal Electrodes and FEP Electret Film. Sensors, 2020, 20, 458.	2.1	9

#	Article	IF	CITATIONS
19	Enhancing vortex-induced vibrations of a cylinder with rod attachments for hydrokinetic power generation. Mechanical Systems and Signal Processing, 2020, 145, 106912.	4.4	47
20	Ultrasensitive and Stretchable Temperature Sensors Based on Thermally Stable and Self-Healing Organohydrogels. ACS Applied Materials & Interfaces, 2020, 12, 19069-19079.	4.0	145
21	Mechanical Regulation Triboelectric Nanogenerator with Controllable Output Performance for Random Energy Harvesting. Advanced Energy Materials, 2020, 10, 2000627.	10.2	49
22	High-Voltage MEMS Plasma Switch for Boosting the Energy Transfer Efficiency in Triboelectric Nanogenerators. , 2020, , .		2
23	A soft robotic finger with self-powered triboelectric curvature sensor based on multi-material 3D printing. Nano Energy, 2020, 73, 104772.	8.2	54
24	Diversiform sensors and sensing systems driven by triboelectric and piezoelectric nanogenerators. Coordination Chemistry Reviews, 2021, 427, 213597.	9.5	114
25	Enhancing energy harvesting in low-frequency rotational motion by a quad-stable energy harvester with time-varying potential wells. Mechanical Systems and Signal Processing, 2021, 148, 107167.	4.4	80
26	Theoretical modeling and experimental validation of the centrifugal softening effect for high-efficiency energy harvesting in ultralow-frequency rotational motion. Mechanical Systems and Signal Processing, 2021, 152, 107424.	4.4	24
27	Circular steering of gold–nickel–platinum micro-vehicle using singular off-center nanoengine. International Journal of Intelligent Robotics and Applications, 2021, 5, 79-88.	1.6	7
28	Miura-Origami-Structured W-Tube Electret Power Generator with Water-Proof and Multifunctional Energy Harvesting Capability., 2021,,.		1
29	Highly Deformable and Transparent Triboelectric Physiological Sensor Based on Anti-Freezing and Antidrying Ionic Conductive Hydrogel., 2021,,.		3
30	A high-stability weighing paper/polytetrafluoroethylene-based triboelectric nanogenerator for self-powered In ₂ O ₃ nanocubes/SnS ₂ nanoflower NO ₂ gas sensors. Journal of Materials Chemistry A, 2021, 9, 14495-14506.	5.2	80
31	Ultrastable, stretchable, highly conductive and transparent hydrogels enabled by salt-percolation for high-performance temperature and strain sensing. Journal of Materials Chemistry C, 2021, 9, 13668-13679.	2.7	77
32	Power generation for wearable systems. Energy and Environmental Science, 2021, 14, 2114-2157.	15.6	178
33	Piezoelectric enhancement of an electrospun AlN-doped P(VDF-TrFE) nanofiber membrane. Materials Chemistry Frontiers, 2021, 5, 5679-5688.	3.2	17
34	Electrowettingâ€Assisted Generation of Ultrastable High Charge Densities in Composite Silicon Oxide–Fluoropolymer Electret Samples for Electric Nanogenerators. Advanced Functional Materials, 2021, 31, 2007872.	7.8	11
35	High-Efficiency Raindrops Energy Harvester Using Interdigital Electrode. , 2021, , .		4
36	Bifilarâ€Pendulumâ€Assisted Multilayerâ€Structured Triboelectric Nanogenerators for Wave Energy Harvesting. Advanced Energy Materials, 2021, 11, 2003616.	10.2	71

#	ARTICLE	IF	Citations
37	Efficient Triboelectric Nanogenerator (TENG) Output Management for Improving Charge Density and Reducing Charge Loss. ACS Applied Electronic Materials, 2021, 3, 532-549.	2.0	29
38	Durable and Flexible Bio-assembled RGO-BC/BC Bilayer Electrodes for Pressure Sensing. Advanced Fiber Materials, 2021, 3, 128-137.	7.9	33
39	Electrostatic vibrational energy converter with two variable capacitors. Sensors and Actuators A: Physical, 2021, 318, 112501.	2.0	13
40	Development of Flexible Triboelectric Generators Based on Patterned Conductive Textile and PDMS Layers. Energies, 2021, 14, 1391.	1.6	7
41	A collision impact based energy harvester using piezoelectric polyline beams with electret coupling. Journal Physics D: Applied Physics, 2021, 54, 225502.	1.3	9
42	An enhanced dual-resonator metamaterial beam for low-frequency vibration suppression. Journal of Applied Physics, 2021, 129, .	1.1	20
43	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. Nano Research, 2021, 14, 4204-4210.	5.8	34
44	Harvesting Vibration Energy: Technologies and Challenges. IEEE Industrial Electronics Magazine, 2021, 15, 30-39.	2.3	13
45	Transparent, Anti-Freezing Hydrogels for Ultrasensitive Temperature and Strain Sensor Based on A Thin-Film Structure. , 2021, , .		0
46	Investigation of electrostatic-piezoelectric hybrid vibrational power generators with different frequency broadening schemes., 2021,,.		1
47	An electromagnetic-piezoelectric-triboelectric hybridized energy harvester towards blue energy. , 2021, , .		4
48	Hierarchical Honeycomb-Structured Electret/Triboelectric Nanogenerator for Biomechanical and Morphing Wing Energy Harvesting. Nano-Micro Letters, 2021, 13, 123.	14.4	80
49	Anti-Freezing and Anti-Drying Organohydrogel Coated with Graphene for Highly Sensitive and Ultrastretchable Strain Sensing. , 2021 , , .		2
50	Stochastic analysis of a galloping-random wind energy harvesting performance on a buoy platform. Energy Conversion and Management, 2021, 238, 114174.	4.4	57
51	Multi-parameter theoretical analysis of wearable energy harvesting backpacks for performance enhancement. Mechanical Systems and Signal Processing, 2021, 155, 107621.	4.4	18
52	Micro-Patterned Electret Power Generator for Simultaneous Oscillation and Rotatory Detection in Railways. , 2021, , .		0
53	Multi-Arched Asynchronous Triboelectric Sensor Based on Ultra-Stretchable Hydrogel for a Novel Displacement Measuring Mechanism., 2021,,.		1
54	Salt-Percolated, Anti-Drying, Anti-Freezing and Transparent Hydrogels for Stretchable Temperature and Strain Sensor. , 2021, , .		0

#	Article	IF	CITATIONS
55	High Sensitive Nitrogen Dioxide Sensor Based on Polyvinyl Alcohol-Cellulose Nanofibril Organohydrogel with Repairability, Anti-Freezing, Stretchability, Long-Lasting Moisture, and High Strength., 2021,,.		0
56	STRETCHABLE OXYGEN SENSOR BASED ON SELF-HEALING AND SELF-ADHESIVE ORGANOHYDROGELS., 2021, , .		0
57	Intersecting Book Inspired High-Power-Density Electret/Triboelectric Multilayered Power Generator with Flexible Interdigital Electrodes., 2021,,.		0
58	An Invisible Bionic Dragonfly Based on Fully-Transparent Conductive Hydrogel and Dielectric Elastomer., 2021,,.		0
59	Intelligent Thrust Bearing Based on Electret Rotary Power Generator with Self-Powering and Self-Sensing Capabilities., 2021,,.		0
60	Hydrogel-Based Sensitive and Humidity-Resistant Oxygen Gas Sensors Enabled by Porous Ecoflex Membranes. , 2021, , .		1
61	Highly Deformable and Stable Gas Sensor Based on Anti-Drying Ionic Organohydrogel for O2 Gas Detection. , $2021, \ldots$		0
62	Deformable Humidity Sensor and its Performance Based on Double-Network and Ionic Conductive Hydrogel Membrane., 2021,,.		0
63	Effects of side ratio on energy harvesting from transverse galloping of a rectangular cylinder. Energy, 2021, 226, 120420.	4.5	29
64	Mechanomaterials: A Rational Deployment of Forces and Geometries in Programming Functional Materials. Advanced Materials, 2021, 33, e2007977.	11.1	34
65	Biomaterial-Based Nonvolatile Resistive Memory Devices toward Ecofriendliness and Biocompatibility. ACS Applied Electronic Materials, 2021, 3, 2832-2861.	2.0	42
66	Harvesting weak vibration energy by integrating piezoelectric inverted beam and pendulum. Energy, 2021, 227, 120374.	4.5	28
67	Design and analysis of plate angles of the four-vertex origami pattern and its impacts on movement of rotational joints. Smart Materials and Structures, 2021, 30, 095012.	1.8	2
68	Technology evolution from micro-scale energy harvesters to nanogenerators. Journal of Micromechanics and Microengineering, 2021, 31, 093002.	1.5	53
69	Combining magnet-induced nonlinearity and centrifugal softening effect to realize high-efficiency energy harvesting in ultralow-frequency rotation. Journal of Sound and Vibration, 2021, 505, 116146.	2.1	19
70	Selfâ€powered technology based on nanogenerators for biomedical applications. Exploration, 2021, 1, 90-114.	5.4	54
71	A new Mylar-based triboelectric energy harvester with an innovative design for mechanical energy harvesting applications. Energy Conversion and Management, 2021, 244, 114489.	4.4	29
72	Dynamic analysis of the non-linear behavior of an ocean buoy for energy harvesting. European Physical Journal: Special Topics, 2021, 230, 3599-3602.	1.2	4

#	Article	IF	Citations
73	A host-coupling bio-nanogenerator for electrically stimulated osteogenesis. Biomaterials, 2021, 276, 120997.	5.7	37
74	A multi-mode R-TENG for self-powered anemometer under IoT network. Nano Energy, 2021, 87, 106170.	8.2	20
75	Sliding mode direct current triboelectric nanogenerators. Nano Energy, 2021, 90, 106531.	8.2	25
76	All-in-One High-Power-Density Vibrational Energy Harvester with Impact-Induced Frequency Broadening Mechanisms. Micromachines, 2021, 12, 1083.	1.4	4
77	Dynamic responses of a two-degree-of-freedom bistable electromagnetic energy harvester under filtered band-limited stochastic excitation. Journal of Sound and Vibration, 2021, 511, 116334.	2.1	14
78	Promoting smart cities into the 5G era with multi-field Internet of Things (IoT) applications powered with advanced mechanical energy harvesters. Nano Energy, 2021, 88, 106304.	8.2	185
79	A heaving point absorber-based ocean wave energy convertor hybridizing a multilayered soft-brush cylindrical triboelectric generator and an electromagnetic generator. Nano Energy, 2021, 89, 106381.	8.2	53
80	Interconnected array design for enhancing the performance of an enclosed flexible triboelectric nanogenerator. Nano Energy, 2021, 89, 106476.	8.2	16
81	Nanogenerator-based devices for biomedical applications. Nano Energy, 2021, 89, 106461.	8.2	45
82	Predefined angle of attack and corner shape effects on the effectiveness of square-shaped galloping energy harvesters. Applied Energy, 2021, 302, 117522.	5.1	7
83	Machine learning based prediction of piezoelectric energy harvesting from wake galloping. Mechanical Systems and Signal Processing, 2021, 160, 107876.	4.4	51
84	Development of bipolar-charged electret rotatory power generator and application in self-powered intelligent thrust bearing. Nano Energy, 2021, 90, 106491.	8.2	14
85	Multistability phenomenon in signal processing, energy harvesting, composite structures, and metamaterials: A review. Mechanical Systems and Signal Processing, 2022, 166, 108419.	4.4	136
86	Investigation of an ultra-low frequency piezoelectric energy harvester with high frequency up-conversion factor caused by internal resonance mechanism. Mechanical Systems and Signal Processing, 2022, 162, 108038.	4.4	67
87	Enhanced performance of airfoil-based piezoaeroelastic energy harvester: numerical simulation and experimental verification. Mechanical Systems and Signal Processing, 2022, 162, 108065.	4.4	26
88	Progress of Inorganic Filler Based Composite Films for Triboelectric Nanogenerators. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 919.	0.6	4
89	An inertial rotary energy harvester for vibrations at ultra-low frequency with high energy conversion efficiency. Applied Energy, 2020, 279, 115762.	5.1	66
90	Analytical and experimental investigation of the centrifugal softening and stiffening effects in rotational energy harvesting. Journal of Sound and Vibration, 2020, 488, 115643.	2.1	57

#	Article	IF	CITATIONS
91	Skin-Inspired Electret Nanogenerator with Self-Healing Abilities. Cell Reports Physical Science, 2020, 1, 100185.	2.8	13
92	A membrane raindrop generator and its application as a selfâ€powered pH sensor. Micro and Nano Letters, 2021, 16, 51-57.	0.6	4
93	Chip-Less Wireless Sensing of Kirigami Structural Morphing Under Various Mechanical Stimuli Using Home-Based Ink-Jet Printable Materials., 2021,,.		2
94	In Situ Sputtering Silver Induction Electrode for Stable and Stretchable Triboelectric Nanogenerators. Micromachines, 2021, 12, 1267.	1.4	2
95	A hybrid wind energy harvester using a slotted cylinder bluff body. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 119-127.	0.3	0
96	Triboelectric energy harvesting using an origami-inspired structure. Applied Energy, 2022, 306, 118037.	5.1	27
97	Catalytic Micro/Nanomotors: Propulsion Mechanisms, Fabrication, Control, and Applications. , 0, , .		2
98	Recent Trend in Biomechanical Energy Harvesting. International Journal of Advanced Research in Science, Communication and Technology, 0, , 68-73.	0.0	0
99	Polymer electrets and their applications. Journal of Applied Polymer Science, 2021, 138, 50406.	1.3	43
100	Self-powered seesaw structured spherical buoys based on a hybrid triboelectric–electromagnetic nanogenerator for sea surface wireless positioning. Energy and Environmental Science, 2022, 15, 621-632.	15.6	47
101	Characteristics of electric performance and key factors of a hybrid piezo/triboelectric generator for wave energy harvesting. Sustainable Energy Technologies and Assessments, 2022, 50, 101757.	1.7	5
102	An Electret/Hydrogel-Based Tactile Sensor Boosted by Micro-Patterned and Electrostatic Promoting Methods with Flexibility and Wide-Temperature Tolerance. Micromachines, 2021, 12, 1462.	1.4	7
103	Flower-like triboelectric nanogenerator for blue energy harvesting with six degrees of freedom. Nano Energy, 2022, 93, 106796.	8.2	37
104	Dielectric elastomer wave energy harvester with self-bias voltage of an ancillary wind generator to power for intelligent buoys. Energy Conversion and Management, 2022, 253, 115178.	4.4	19
105	Self-powered pressure sensors based on triboelectric nanogenerator. , 2020, , .		0
107	Stability of Charge Distributions in Electret Films on the nm-Scale. ACS Applied Materials & Samp; Interfaces, 2022, 14, 4500-4509.	4.0	4
108	Ultraâ€Sensitive, Deformable, and Transparent Triboelectric Tactile Sensor Based on Microâ€Pyramid Patterned Ionic Hydrogel for Interactive Human–Machine Interfaces. Advanced Science, 2022, 9, e2104168.	5.6	123
109	Soft multi-modal thermoelectric skin for dual functionality of underwater energy harvesting and thermoregulation. Nano Energy, 2022, 95, 107002.	8.2	29

#	Article	IF	CITATIONS
110	Fish gills inspired parallel-cell triboelectric nanogenerator. Nano Energy, 2022, 95, 106976.	8.2	29
111	Flexible and Deformable Organic Field-Effect Transistor by Microelectronic Inkjet Printing. , 2022, , .		1
112	Integrative Hydrogel-Based Tactile Sensor by Triboelectric and Piezoresistive Effect For Detecting Dynamic and Static Pressure. , 2022, , .		1
113	Underwater Energy Harvesting to Extend Operation Time of Submersible Sensors. Sensors, 2022, 22, 1341.	2.1	10
114	An impact-driven frequency up-converter without coupling phase for electret-based vibration energy harvester. , 2022, , .		0
115	A static-dynamic energy harvester for a self-powered ocean environment monitoring application. Science China Technological Sciences, 2022, 65, 893-902.	2.0	11
116	Waterbomb-origami inspired triboelectric nanogenerator for smart pavement-integrated traffic monitoring. Nano Research, 2022, 15, 5450-5460.	5.8	25
117	Research on PDMS TENG of laser etch 3D structure. Journal of Materials Science, 2022, 57, 6723-6733.	1.7	11
118	Toward enhanced output performance by optimizing permittivity of capacitor medium in electret-based energy harvester. Nano Energy, 2022, 95, 107057.	8.2	3
119	Constructing high output performance triboelectric nanogenerator via V-shape stack and self-charge excitation. Nano Energy, 2022, 96, 107068.	8.2	22
120	Out-of-plane Gap Closing Electrostatic Vibration Energy Harvester. , 2021, , .		0
121	A Hybrid Selfâ€Powered Arbitrary Wave Motion Sensing System for Realâ€Time Wireless Marine Environment Monitoring Application. Advanced Energy Materials, 2022, 12, .	10.2	18
122	Systematic investigation of bipolar-charged electret/triboelectric power generator: modeling, experiments and applications., 2021,,.		0
123	Recent Advances in Self-Powered Piezoelectric and Triboelectric Sensors: From Material and Structure Design to Frontier Applications of Artificial Intelligence. Sensors, 2021, 21, 8422.	2.1	14
124	Ocean Buoy for Energy Production: Short Comments on Its Irregular Behavior. Journal of Vibration Engineering and Technologies, 0 , 1 .	1.3	0
125	A button switch inspired duplex hydrogel sensor based on both triboelectric and piezoresistive effects for detecting dynamic and static pressure. Nami Jishu Yu Jingmi Gongcheng/Nanotechnology and Precision Engineering, 2022, 5, 023002.	1.7	1
126	Micro-Patterning of Electret Charge Distribution by Selective Liquid-Solid Contact Electrification. Journal of Microelectromechanical Systems, 2022, 31, 625-633.	1.7	5
127	Plasticized PVCâ€Gel Single Layerâ€Based Stretchable Triboelectric Nanogenerator for Harvesting Mechanical Energy and Tactile Sensing. Advanced Science, 2022, 9, .	5.6	23

#	ARTICLE	IF	CITATIONS
128	Study of a piezoelectric energy harvester in the form of vortex oscillation for fixed disturbance fluid type. Review of Scientific Instruments, 2022, 93, 064705.	0.6	1
129	A piezoelectric energy harvester for freight train condition monitoring system with the hybrid nonlinear mechanism. Mechanical Systems and Signal Processing, 2022, 180, 109403.	4.4	15
130	Toward Optimizing Resonance for Enhanced Triboelectrification of Oscillating Triboelectric Nanogenerators. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , .	2.7	6
131	High-voltage direct current triboelectric nanogenerator based on charge pump and air ionization for electrospinning. Nano Energy, 2022, 101, 107599.	8.2	14
132	Millivoltâ€Level Stable Voltage Output of Triboelectric Nanogenerator Under Random Excitation by Double Limiting. Energy Technology, 2022, 10, .	1.8	2
133	Multifunctional Double-Network Self-Healable Hydrogel and Its Application to Highly Reliable Strain Sensors. ACS Applied Polymer Materials, 0, , .	2.0	0
134	A novel seesaw-like piezoelectric energy harvester for low frequency vibration. Energy, 2022, 261, 125241.	4.5	11
135	Recent advances in gas and environmental sensing: From micro/nano to the era of self-powered and artificial intelligent (AI)-enabled device. Microchemical Journal, 2022, 181, 107833.	2.3	6
136	New cambered-surface based drip generator: A drop of water generates 50ÂÂμA current without pre-charging. Nano Energy, 2022, 102, 107694.	8.2	7
137	General analysis and optimization of a two-stage power management circuit for electrostatic/triboelectric nanogenerators. Nano Energy, 2022, 103, 107816.	8.2	6
138	Bistable programmable origami based soft electricity generator with inter-well modulation. Nano Energy, 2022, 103, 107775.	8.2	6
139	Experimental and numerical studies on working parameter selections of a piezoelectric-painted-based ocean energy harvester attached to fish aggregating devices. Energy for Sustainable Development, 2022, 71, 73-88.	2.0	5
140	Multiphase Bipolar Electret Rotary Generator for Energy Harvesting and Rotation Monitoring. Journal of Microelectromechanical Systems, 2022, 31, 960-970.	1.7	3
141	Flexible Sandwich-Structured Foldable Triboelectric Nanogenerator Based on Paper Substrate for Eco-Friendly Electronic Devices. Energies, 2022, 15, 6236.	1.6	2
142	Improving the performances of direct-current triboelectric nanogenerators with surface chemistry. Current Opinion in Colloid and Interface Science, 2022, 61, 101627.	3.4	3
143	Low-frequency vibration energy harvesting: a comprehensive review of frequency up-conversion approaches. Smart Materials and Structures, 2022, 31, 103001.	1.8	8
144	Hyaluronic Acid Methacrylate Hydrogel-Modified Electrochemical Device for Adsorptive Removal of Lead(II). Biosensors, 2022, 12, 714.	2.3	7
145	A Novel Design Based on Mechanical Timeâ€Delay Switch and Charge Space Accumulation for High Output Performance Directâ€Current Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	7.8	20

#	ARTICLE	IF	CITATIONS
146	Sustainable Triboelectric Materials for Smart Active Sensing Systems. Advanced Functional Materials, 2022, 32, .	7.8	40
147	Waterwheel-inspired high-performance hybrid electromagnetic-triboelectric nanogenerators based on fluid pipeline energy harvesting for power supply systems and data monitoring. Nanotechnology, 2023, 34, 025401.	1.3	17
148	4D Multiscale Origami Soft Robots: A Review. Polymers, 2022, 14, 4235.	2.0	10
149	Ori-inspired bistable piezoelectric energy harvester for scavenging human shaking energy: Design, modeling, and experiments. Energy Conversion and Management, 2022, 271, 116309.	4.4	15
150	A self-powered bridge health monitoring system driven by elastic origami triboelectric nanogenerator. Nano Energy, 2023, 105, 107974.	8.2	19
151	Direct-current, long-lasting and highly efficient electret energy harvesting from ultra-low-frequency motions using toothed clutch mechanism. Nano Energy, 2023, 105, 107998.	8.2	5
152	Vibration energy harvester with double frequency-up conversion mechanism for self-powered sensing system in smart city. Nano Energy, 2023, 105, 108030.	8.2	11
153	Enhanced performance of airfoil-based piezoelectric energy harvester under coupled flutter and vortex-induced vibration. International Journal of Mechanical Sciences, 2023, 241, 107979.	3.6	9
154	Waterâ€resistant organic thermoelectric generator with >10 μW output., 2023, 5, .		6
155	Load resistance influence on the Bennet doubler based electrostatic mechanical-to-electrical energy converter operation. Sensors and Actuators A: Physical, 2023, 351, 114162.	2.0	2
156	Design and Experiment of A Hybrid Wave Energy Harvester Based on Tapered Rollers. , 2022, , .		0
157	Validation and optimization of two models for the magnetic restoring forces using a multi-stable piezoelectric energy harvester. Journal of Intelligent Material Systems and Structures, 0, , 1045389X2211510.	1.4	0
158	More Than Energy Harvesting in Electret Electronicsâ€Moving toward Nextâ€Generation Functional System. Advanced Functional Materials, 2023, 33, .	7.8	11
159	Advances in triboelectric pressure sensors. Sensors and Actuators A: Physical, 2023, 355, 114331.	2.0	4
160	Mechanical intelligent wave energy harvesting and self-powered marine environment monitoring. Nano Energy, 2023, 108, 108222.	8.2	37
161	Circuit representation, experiment and analysis of parallel-cell triboelectric nanogenerator. Energy Conversion and Management, 2023, 278, 116741.	4.4	2
162	Fabrication and feasibility study of polymer-based triboelectric nanogenerator towards blue energy harvesting., 2023, 1, 100006.		2
163	Glaze Tile-Inspired Liquid-Solid Power Generator for Continuous Water Flow Energy Harvesting., 2023,,.		0

#	Article	IF	CITATIONS
164	Flowing Water Enables Steerable Charge Distribution on Electret Surface., 2023,,.		0
165	Achieving Continuous Selfâ€Powered Energy Conversionâ€Storageâ€Supply Integrated System Based on Carbon Felt. Advanced Science, 2023, 10, .	5.6	7
166	Advances in solid–solid contacting triboelectric nanogenerator for ocean energy harvesting. Materials Today, 2023, 65, 166-188.	8.3	11
167	Fabrication and Analysis of Microcapsule Electrets with a Tunable Flexoelectric-like Response. ACS Applied Materials & Samp; Interfaces, 2023, 15, 17301-17308.	4.0	2
168	Three-dimensional triboelectric nanogenerator with carboxymethylated cellulose nanofiber and perfluoroalkoxy films. Journal of Industrial and Engineering Chemistry, 2023, 123, 220-229.	2.9	4
169	Recent Advances in Triboelectric Nanogenerators for Marine Exploitation. Advanced Energy Materials, 2023, 13, .	10.2	21
170	Triboelectric nanogenerators: the beginning of blue dream. Frontiers of Chemical Science and Engineering, 2023, 17, 635-678.	2.3	21
171	Broadband and Multi-Cylinder-Based Triboelectric Nanogenerators for Mechanical Energy Harvesting with High Space Utilization. Materials, 2023, 16, 3034.	1.3	3
184	A 3D Printed Architecture Sensor for Structural Health Monitoring. , 2023, , .		0
194	Material selection and performance optimization strategies for a wearable friction nanogenerator (W-TENG). Journal of Materials Chemistry A, 2023, 11, 24454-24481.	5.2	1