List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Toward the blue energy dream by triboelectric nanogenerator networks. Nano Energy, 2017, 39, 9-23.	8.2	913
2	Liquidâ€Metal Electrode for Highâ€Performance Triboelectric Nanogenerator at an Instantaneous Energy Conversion Efficiency of 70.6%. Advanced Functional Materials, 2015, 25, 3718-3725.	7.8	427
3	Flexible and durable wood-based triboelectric nanogenerators for self-powered sensing in athletic big data analytics. Nature Communications, 2019, 10, 5147.	5.8	335
4	Universal power management strategy for triboelectric nanogenerator. Nano Energy, 2017, 37, 168-176.	8.2	312
5	Coupled Triboelectric Nanogenerator Networks for Efficient Water Wave Energy Harvesting. ACS Nano, 2018, 12, 1849-1858.	7.3	299
6	Spherical triboelectric nanogenerator integrated with power management module for harvesting multidirectional water wave energy. Energy and Environmental Science, 2020, 13, 277-285.	15.6	252
7	Triboelectric Nanogenerator Enhanced Nanofiber Air Filters for Efficient Particulate Matter Removal. ACS Nano, 2017, 11, 6211-6217.	7.3	242
8	Fully Packaged Selfâ€Powered Triboelectric Pressure Sensor Using Hemispheresâ€Array. Advanced Energy Materials, 2016, 6, 1502566.	10.2	212
9	Robust Swing‧tructured Triboelectric Nanogenerator for Efficient Blue Energy Harvesting. Advanced Energy Materials, 2020, 10, 2000064.	10.2	212
10	Structural Optimization of Triboelectric Nanogenerator for Harvesting Water Wave Energy. ACS Nano, 2015, 9, 12562-12572.	7.3	192
11	Triboelectric Nanogenerator Networks Integrated with Power Management Module for Water Wave Energy Harvesting. Advanced Functional Materials, 2019, 29, 1807241.	7.8	190
12	Superâ€Durable, Lowâ€Wear, and Highâ€Performance Furâ€Brush Triboelectric Nanogenerator for Wind and Water Energy Harvesting for Smart Agriculture. Advanced Energy Materials, 2021, 11, 2003066.	10.2	189
13	Spring-assisted triboelectric nanogenerator for efficiently harvesting water wave energy. Nano Energy, 2017, 31, 560-567.	8.2	181
14	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. Nano Energy, 2018, 45, 380-389.	8.2	178
15	Spherical Triboelectric Nanogenerators Based on Springâ€Assisted Multilayered Structure for Efficient Water Wave Energy Harvesting. Advanced Functional Materials, 2018, 28, 1802634.	7.8	168
16	Integration of micro-supercapacitors with triboelectric nanogenerators for a flexible self-charging power unit. Nano Research, 2015, 8, 3934-3943.	5.8	164
17	Integrated triboelectric nanogenerator array based on air-driven membrane structures for water wave energy harvesting. Nano Energy, 2017, 31, 351-358.	8.2	162
18	Self-Powered Electrostatic Adsorption Face Mask Based on a Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2018, 10, 7126-7133.	4.0	157

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19	Multilayer wavy-structured robust triboelectric nanogenerator for harvesting water wave energy. Nano Energy, 2016, 22, 87-94.	8.2	154
20	Triboelectric Nanogenerator Network Integrated with Charge Excitation Circuit for Effective Water Wave Energy Harvesting. Advanced Energy Materials, 2020, 10, 2002123.	10.2	154
21	Nanopillar Arrayed Triboelectric Nanogenerator as a Self-Powered Sensitive Sensor for a Sleep Monitoring System. ACS Nano, 2016, 10, 8097-8103.	7.3	145
22	Theoretical Study of Rotary Freestanding Triboelectric Nanogenerators. Advanced Functional Materials, 2015, 25, 2928-2938.	7.8	142
23	Robust Thin Filmsâ€Based Triboelectric Nanogenerator Arrays for Harvesting Bidirectional Wind Energy. Advanced Energy Materials, 2016, 6, 1501799.	10.2	136
24	Removal of Particulate Matter Emissions from a Vehicle Using a Self-Powered Triboelectric Filter. ACS Nano, 2015, 9, 12552-12561.	7.3	133
25	Soft-contact cylindrical triboelectric-electromagnetic hybrid nanogenerator based on swing structure for ultra-low frequency water wave energy harvesting. Nano Energy, 2021, 81, 105625.	8.2	132
26	High-performance triboelectric nanogenerators for self-powered, in-situ and real-time water quality mapping. Nano Energy, 2019, 66, 104117.	8.2	127
27	Self-power electroreduction of N2 into NH3 by 3D printed triboelectric nanogenerators. Materials Today, 2019, 28, 17-24.	8.3	127
28	Inductorâ€Free Wireless Energy Delivery via Maxwell's Displacement Current from an Electrodeless Triboelectric Nanogenerator. Advanced Materials, 2018, 30, 1704077.	11.1	124
29	Directâ€Current Triboelectric Nanogenerator Realized by Air Breakdown Induced Ionized Air Channel. Advanced Energy Materials, 2018, 8, 1800889.	10.2	111
30	Onâ€5kin Triboelectric Nanogenerator and Selfâ€Powered Sensor with Ultrathin Thickness and High Stretchability. Small, 2017, 13, 1702929.	5.2	108
31	Stimulating Acrylic Elastomers by a Triboelectric Nanogenerator – Toward Selfâ€Powered Electronic Skin and Artificial Muscle. Advanced Functional Materials, 2016, 26, 4906-4913.	7.8	100
32	Triboelectric Nanogenerator Tree for Harvesting Wind Energy and Illuminating in Subway Tunnel. Advanced Materials Technologies, 2018, 3, 1700317.	3.0	98
33	Silicone-Based Triboelectric Nanogenerator for Water Wave Energy Harvesting. ACS Applied Materials & Interfaces, 2018, 10, 3616-3623.	4.0	98
34	Whirlingâ€Folded Triboelectric Nanogenerator with High Average Power for Water Wave Energy Harvesting. Advanced Functional Materials, 2019, 29, 1904867.	7.8	98
35	Segmented Swingâ€6tructured Furâ€Based Triboelectric Nanogenerator for Harvesting Blue Energy toward Marine Environmental Applications. Advanced Functional Materials, 2021, 31, 2106398.	7.8	95
36	Spherical triboelectric nanogenerator based on spring-assisted swing structure for effective water wave energy harvesting. Nano Energy, 2021, 83, 105836.	8.2	94

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37	Blue energy fuels: converting ocean wave energy to carbon-based liquid fuels <i>via</i> CO ₂ reduction. Energy and Environmental Science, 2020, 13, 1300-1308.	15.6	93
38	A Selfâ€Powered Angle Sensor at Nanoradianâ€Resolution for Robotic Arms and Personalized Medicare. Advanced Materials, 2020, 32, e2001466.	11.1	93
39	Tunable Optical Modulator by Coupling a Triboelectric Nanogenerator and a Dielectric Elastomer. Advanced Functional Materials, 2017, 27, 1603788.	7.8	92
40	Windâ€Ðriven Softâ€Contact Rotary Triboelectric Nanogenerator Based on Rabbit Fur with High Performance and Durability for Smart Farming. Advanced Functional Materials, 2022, 32, 2108580.	7.8	85
41	Quantifying the power output and structural figure-of-merits of triboelectric nanogenerators in a charging system starting from the Maxwell's displacement current. Nano Energy, 2019, 59, 380-389.	8.2	84
42	Theoretical foundations of triboelectric nanogenerators (TENGs). Science China Technological Sciences, 2020, 63, 1087-1109.	2.0	83
43	Harshâ€Environmentalâ€Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. Advanced Energy Materials, 2018, 8, 1801898.	10.2	82
44	Tribotronic Enhanced Photoresponsivity of a MoS ₂ Phototransistor. Advanced Science, 2016, 3, 1500419.	5.6	77
45	Butterflyâ€Inspired Triboelectric Nanogenerators with Springâ€Assisted Linkage Structure for Water Wave Energy Harvesting. Advanced Materials Technologies, 2019, 4, 1800514.	3.0	77
46	Triboelectric nanogenerator enhanced multilayered antibacterial nanofiber air filters for efficient removal of ultrafine particulate matter. Nano Research, 2018, 11, 4090-4101.	5.8	74
47	Theoretical study on rotary-sliding disk triboelectric nanogenerators in contact and non-contact modes. Nano Research, 2016, 9, 1057-1070.	5.8	73
48	A multi-dielectric-layered triboelectric nanogenerator as energized by corona discharge. Nanoscale, 2017, 9, 9668-9675.	2.8	73
49	Cylindrical triboelectric nanogenerator based on swing structure for efficient harvesting of ultra-low-frequency water wave energy. Applied Physics Reviews, 2020, 7, 021401.	5.5	73
50	Biomimetic Hairy Whiskers for Robotic Skin Tactility. Advanced Materials, 2021, 33, e2101891.	11.1	72
51	A Stretchable, Flexible Triboelectric Nanogenerator for Selfâ€Powered Realâ€Time Motion Monitoring. Advanced Materials Technologies, 2018, 3, 1800021.	3.0	68
52	Charging System Optimization of Triboelectric Nanogenerator for Water Wave Energy Harvesting and Storage. ACS Applied Materials & Interfaces, 2016, 8, 21398-21406.	4.0	67
53	Ultrafine Capillaryâ€Tube Triboelectric Nanogenerator as Active Sensor for Microliquid Biological and Chemical Sensing. Advanced Materials Technologies, 2018, 3, 1700229.	3.0	64
54	Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Lowâ€Power Neuromorphic Inâ€Memory Computing. Advanced Materials, 2021, 33, e2008709.	11.1	63

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55	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. Nano Energy, 2018, 48, 292-300.	8.2	60
56	Rationally segmented triboelectric nanogenerator with a constant direct-current output and low crest factor. Energy and Environmental Science, 0, , .	15.6	60
57	Transparent self-powered triboelectric sensor based on PVA/PA hydrogel for promoting human-machine interaction in nursing and patient safety. Nano Energy, 2022, 97, 107199.	8.2	56
58	Engineering flexible 3D printed triboelectric nanogenerator to self-power electro-Fenton degradation of pollutants. Nano Energy, 2020, 74, 104908.	8.2	54
59	Self-Powered Electrochemical Oxidation of 4-Aminoazobenzene Driven by a Triboelectric Nanogenerator. ACS Nano, 2017, 11, 770-778.	7.3	53
60	Blue Energy for Green Hydrogen Fuel: A Selfâ€₽owered Electrochemical Conversion System Driven by Triboelectric Nanogenerators. Advanced Energy Materials, 2022, 12, .	10.2	52
61	Swing‣tructured Triboelectric–Electromagnetic Hybridized Nanogenerator for Breeze Wind Energy Harvesting. Advanced Materials Technologies, 2021, 6, 2100496.	3.0	45
62	High-Throughput and Self-Powered Electroporation System for Drug Delivery Assisted by Microfoam Electrode. ACS Nano, 2020, 14, 15458-15467.	7.3	41
63	Self-Powered Inhomogeneous Strain Sensor Enabled Joint Motion and Three-Dimensional Muscle Sensing. ACS Applied Materials & Interfaces, 2019, 11, 34251-34257.	4.0	40
64	Self-powered electrochemical system by combining Fenton reaction and active chlorine generation for organic contaminant treatment. Nano Research, 2019, 12, 2729-2735.	5.8	35
65	Recent Advances of Upconversion Nanomaterials in the Biological Field. Nanomaterials, 2021, 11, 2474.	1.9	35
66	Figuresâ€ofâ€Merit for Rollingâ€Frictionâ€Based Triboelectric Nanogenerators. Advanced Materials Technologies, 2016, 1, 1600017.	3.0	34
67	Hourglass Triboelectric Nanogenerator as a "Direct Current―Power Source. Advanced Energy Materials, 2017, 7, 1700644.	10.2	34
68	Durability Improvement of Breezeâ€Driven Triboelectricâ€Electromagnetic Hybrid Nanogenerator by a Travelâ€Controlled Approach. Advanced Functional Materials, 2022, 32, .	7.8	34
69	Design guidelines of triboelectric nanogenerator for water wave energy harvesters. Nanotechnology, 2017, 28, 185403.	1.3	30
70	Long Distance Transport of Microdroplets and Precise Microfluidic Patterning Based on Triboelectric Nanogenerator. Advanced Materials Technologies, 2019, 4, 1800300.	3.0	30
71	Bladelessâ€Turbineâ€Based Triboelectric Nanogenerator for Fluid Energy Harvesting and Selfâ€Powered Fluid Gauge. Advanced Materials Technologies, 2019, 4, 1800560.	3.0	30
72	Triboelectric filtering for air purification. Nanotechnology, 2019, 30, 292001.	1.3	28

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73	Field emission device driven by self-powered contact-electrification: Simulation and experimental analysis. Applied Physics Letters, 2015, 107, .	1.5	27
74	Motion behavior of water droplets driven by triboelectric nanogenerator. Applied Physics Letters, 2018, 112, .	1.5	27
75	Radialâ€Grating Pendulumâ€Structured Triboelectric Nanogenerator for Energy Harvesting and Tiltingâ€Angle Sensing. Advanced Materials Technologies, 2018, 3, 1700251.	3.0	26
76	Irregular Wind Energy Harvesting by a Turbine Vent Triboelectric Nanogenerator and Its Application in a Self-Powered On-Site Industrial Monitoring System. ACS Applied Materials & Interfaces, 2021, 13, 55136-55144.	4.0	26
77	Self-powered mobile sterilization and infection control system. Nano Energy, 2021, 88, 106313.	8.2	25
78	Modeling a dielectric elastomer as driven by triboelectric nanogenerator. Applied Physics Letters, 2017, 110, .	1.5	23
79	Selfâ€Powered Intelligent Buoy Based on Triboelectric Nanogenerator for Water Level Alarming. Advanced Functional Materials, 2022, 32, .	7.8	23
80	Characteristics of triboelectrification on dielectric surfaces contacted with a liquid metal in different gases. Applied Physics Letters, 2017, 110, .	1.5	22
81	Power Management and Reaction Optimization for a Self-Powered Electrochemical System Driven by a Triboelectric Nanogenerator. Nano Letters, 2021, 21, 5633-5640.	4.5	22
82	Flexible Filmâ€Dischargeâ€&witch Assisted Universal Power Management System for the Four Operation Modes of Triboelectric Nanogenerators. Advanced Energy Materials, 2022, 12, .	10.2	19
83	Barycenter Selfâ€Adapting Triboelectric Nanogenerator for Sea Water Wave Highâ€Entropy Energy Harvesting and Selfâ€Powered Forecasting in Marine Meteorology. Advanced Functional Materials, 2022, 32, .	7.8	19
84	Arcâ€Shaped Triboelectric Nanogenerator Based on Rolling Structure for Harvesting Lowâ€Frequency Water Wave Energy. Advanced Materials Technologies, 2021, 6, 2100359.	3.0	18
85	Methods for correctly characterizing the output performance of nanogenerators. Nano Energy, 2022, 93, 106884.	8.2	15
86	Compressed Ethylene-Assisted Formation of the Reverse Micelle of PEOâ^'PPOâ^'PEO Copolymer. Macromolecules, 2003, 36, 1289-1294.	2.2	14
87	Particle Transport–Based Triboelectric Nanogenerator for Selfâ€Powered Massâ€Flow Detection and Explosion Early Warning. Advanced Materials Technologies, 2018, 3, 1800009.	3.0	13
88	Theoretical Study of Slidingâ€Electrificationâ€Gated Tribotronic Transistors and Logic Device. Advanced Electronic Materials, 2018, 4, 1700337.	2.6	12
89	A Triboelectric Closedâ€Loop Sensing System for Authenticity Identification of Paperâ€Based Artworks. Advanced Materials Technologies, 2020, 5, 2000194.	3.0	5
90	Ferroelectric Switching: Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Lowâ€Power Neuromorphic Inâ€Memory Computing (Adv. Mater. 21/2021). Advanced Materials, 2021, 33, 2170167.	11.1	1