

Ya Yang

List of Publications by Year in descending order

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times ranked

12377
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Large-Scale Energy Harvesting by a Nanoparticle-Enhanced Triboelectric Nanogenerator. <i>Nano Letters</i> , 2013, 13, 847-853.	4.5	979
2	Harmonicâ€Resonatorâ€Based Triboelectric Nanogenerator as a Sustainable Power Source and a Selfâ€Powered Active Vibration Sensor. <i>Advanced Materials</i> , 2013, 25, 6094-6099.	11.1	672
3	Human Skin Based Triboelectric Nanogenerators for Harvesting Biomechanical Energy and as Self-Powered Active Tactile Sensor System. <i>ACS Nano</i> , 2013, 7, 9213-9222.	7.3	667
4	Pyroelectric Nanogenerators for Harvesting Thermoelectric Energy. <i>Nano Letters</i> , 2012, 12, 2833-2838.	4.5	639
5	Triboelectric Nanogenerator for Harvesting Wind Energy and as Self-Powered Wind Vector Sensor System. <i>ACS Nano</i> , 2013, 7, 9461-9468.	7.3	524
6	Single-Electrode-Based Sliding Triboelectric Nanogenerator for Self-Powered Displacement Vector Sensor System. <i>ACS Nano</i> , 2013, 7, 7342-7351.	7.3	523
7	Progress in nanogenerators for portable electronics. <i>Materials Today</i> , 2012, 15, 532-543.	8.3	417
8	Triboelectric Nanogenerator for Harvesting Vibration Energy in Full Space and as Selfâ€Powered Acceleration Sensor. <i>Advanced Functional Materials</i> , 2014, 24, 1401-1407.	7.8	381
9	Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. <i>Nano Energy</i> , 2013, 2, 856-862.	8.2	337
10	BaTiO ₃ Nanotubes-Based Flexible and Transparent Nanogenerators. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3599-3604.	2.1	323
11	A Selfâ€Powered Triboelectric Nanosensor for Mercury Ion Detection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5065-5069.	7.2	323
12	Scavenging Wind Energy by Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2018, 8, 1702649.	10.2	302
13	A Singleâ€Electrode Based Triboelectric Nanogenerator as Selfâ€Powered Tracking System. <i>Advanced Materials</i> , 2013, 25, 6594-6601.	11.1	299
14	Triboelectric nanogenerators as flexible power sources. <i>Npj Flexible Electronics</i> , 2017, 1, .	5.1	295
15	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014, 4, 1301322.	10.2	280
16	Enhanced Triboelectric Nanogenerators and Triboelectric Nanosensor Using Chemically Modified TiO ₂ Nanomaterials. <i>ACS Nano</i> , 2013, 7, 4554-4560.	7.3	276
17	Triboelectric nanogenerator as self-powered active sensors for detecting liquid/gaseous water/ethanol. <i>Nano Energy</i> , 2013, 2, 693-701.	8.2	250
18	A Oneâ€Structureâ€Based Hybridized Nanogenerator for Scavenging Mechanical and Thermal Energies by Triboelectricâ€Piezoelectricâ€Pyroelectric Effects. <i>Advanced Materials</i> , 2016, 28, 2881-2887.	11.1	249

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19	Flexible Hybrid Energy Cell for Simultaneously Harvesting Thermal, Mechanical, and Solar Energies. ACS Nano, 2013, 7, 785-790.	7.3	239
20	Flexible Pyroelectric Nanogenerators using a Composite Structure of Lead-Free KNbO_3 Nanowires. Advanced Materials, 2012, 24, 5357-5362.	11.1	237
21	Hierarchically patterned self-powered sensors for multifunctional tactile sensing. Science Advances, 2020, 6, eabb9083.	4.7	234
22	Hybridized Electromagnetic-Triboelectric Nanogenerator for Scavenging Biomechanical Energy for Sustainably Powering Wearable Electronics. ACS Nano, 2015, 9, 3521-3529.	7.3	233
23	Super-Flexible Nanogenerator for Energy Harvesting from Gentle Wind and as an Active Deformation Sensor. Advanced Functional Materials, 2013, 23, 2445-2449.	7.8	232
24	Pyroelectric Nanogenerators for Driving Wireless Sensors. Nano Letters, 2012, 12, 6408-6413.	4.5	221
25	Scanning Probe Study on the Piezotronic Effect in ZnO Nanomaterials and Nanodevices. Advanced Materials, 2012, 24, 4647-4655.	11.1	219
26	Photovoltaic-Pyroelectric Coupled Effect Induced Electricity for Self-Powered Photodetector System. Advanced Materials, 2017, 29, 1703694.	11.1	217
27	Triboelectric nanogenerator built inside clothes for self-powered glucose biosensors. Nano Energy, 2013, 2, 1019-1024.	8.2	212
28	Nanowire-composite based flexible thermoelectric nanogenerators and self-powered temperature sensors. Nano Research, 2012, 5, 888-895.	5.8	202
29	A flexible ultra-sensitive triboelectric tactile sensor of wrinkled PDMS/MXene composite films for E-skin. Nano Energy, 2021, 81, 105663.	8.2	201
30	Thermoelectric Nanogenerators Based on Single Sb-Doped ZnO Micro/Nanobelts. ACS Nano, 2012, 6, 6984-6989.	7.3	199
31	Efficient Scavenging of Solar and Wind Energies in a Smart City. ACS Nano, 2016, 10, 5696-5700.	7.3	193
32	Single-Electrode-Based Rotating Triboelectric Nanogenerator for Harvesting Energy from Tires. ACS Nano, 2014, 8, 680-689.	7.3	182
33	Triboelectric Nanogenerator as an Active UV Photodetector. Advanced Functional Materials, 2014, 24, 2810-2816.	7.8	180
34	Hybridized Electromagnetic-Triboelectric Nanogenerator for a Self-Powered Electronic Watch. ACS Nano, 2015, 9, 12301-12310.	7.3	179
35	Ultrahigh Sensitive Piezotronic Strain Sensors Based on a ZnSnO_3 Nanowire/Microwire. ACS Nano, 2012, 6, 4369-4374.	7.3	176
36	Manipulating Nanoscale Contact Electrification by an Applied Electric Field. Nano Letters, 2014, 14, 1567-1572.	4.5	175

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37	Self-Powered Magnetic Sensor Based on a Triboelectric Nanogenerator. <i>ACS Nano</i> , 2012, 6, 10378-10383.	7.3	174
38	Flow-Driven Triboelectric Generator for Directly Powering a Wireless Sensor Node. <i>Advanced Materials</i> , 2015, 27, 240-248.	11.1	167
39	Hybridized nanogenerator for simultaneously scavenging mechanical and thermal energies by electromagnetic-triboelectric-thermoelectric effects. <i>Nano Energy</i> , 2016, 26, 164-171.	8.2	167
40	Elasto-Aerodynamics-Driven Triboelectric Nanogenerator for Scavenging Air-Flow Energy. <i>ACS Nano</i> , 2015, 9, 9554-9563.	7.3	165
41	Electron Transfer in Nanoscale Contact Electrification: Effect of Temperature in the Metal-Dielectric Case. <i>Advanced Materials</i> , 2019, 31, e1808197.	11.1	165
42	Ultrathin Nanogenerators as Self-Powered/Active Skin Sensors for Tracking Eye Ball Motion. <i>Advanced Functional Materials</i> , 2014, 24, 1163-1168.	7.8	163
43	A hybrid energy cell for self-powered water splitting. <i>Energy and Environmental Science</i> , 2013, 6, 2429.	15.6	162
44	Piezoelectric Material-Polymer Composite Porous Foam for Efficient Dye Degradation via the Piezo-Catalytic Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27862-27869.	4.0	156
45	Directed Growth and Microwave Absorption Property of Crossed ZnO Netlike Micro-/Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10088-10091.	1.5	154
46	A chaotic pendulum triboelectric-electromagnetic hybridized nanogenerator for wave energy scavenging and self-powered wireless sensing system. <i>Nano Energy</i> , 2020, 69, 104440.	8.2	152
47	Structure, Performance, and Application of BiFeO ₃ Nanomaterials. <i>Nano-Micro Letters</i> , 2020, 12, 81.	14.4	150
48	Single Micro/Nanowire Pyroelectric Nanogenerators as Self-Powered Temperature Sensors. <i>ACS Nano</i> , 2012, 6, 8456-8461.	7.3	149
49	Rotating-disk-based hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy as a mobile power source. <i>Nano Energy</i> , 2015, 13, 771-780.	8.2	149
50	Triboelectric nanogenerator for harvesting pendulum oscillation energy. <i>Nano Energy</i> , 2013, 2, 1113-1120.	8.2	148
51	Size Dependence of Dielectric Constant in a Single Pencil-Like ZnO Nanowire. <i>Nano Letters</i> , 2012, 12, 1919-1922.	4.5	147
52	Direct-Current Triboelectric Generator. <i>Advanced Functional Materials</i> , 2014, 24, 3745-3750.	7.8	147
53	Effective energy storage from a hybridized electromagnetic-triboelectric nanogenerator. <i>Nano Energy</i> , 2017, 32, 36-41.	8.2	147
54	Hybridized Electromagnetic-Triboelectric Nanogenerator for Scavenging Air-Flow Energy to Sustainably Power Temperature Sensors. <i>ACS Nano</i> , 2015, 9, 4553-4562.	7.3	144

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55	Hybrid Energy Cell for Degradation of Methyl Orange by Self-Powered Electrocatalytic Oxidation. Nano Letters, 2013, 13, 803-808.	4.5	141
56	Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. Applied Physics Letters, 2010, 97, .	1.5	139
57	Fully Enclosed Triboelectric Nanogenerators for Applications in Water and Harsh Environments. Advanced Energy Materials, 2013, 3, 1563-1568.	10.2	137
58	Piezotronic Effect on the Output Voltage of P3HT/ZnO Micro/Nanowire Heterojunction Solar Cells. Nano Letters, 2011, 11, 4812-4817.	4.5	135
59	Piezo-phototronics effect on nano/microwire solar cells. Energy and Environmental Science, 2012, 5, 6850.	15.6	135
60	Applicability of triboelectric generator over a wide range of temperature. Nano Energy, 2014, 4, 150-156.	8.2	135
61	A Oneâ€Structureâ€Based Piezoâ€Triboâ€Pyroâ€Photoelectric Effects Coupled Nanogenerator for Simultaneously Scavenging Mechanical, Thermal, and Solar Energies. Advanced Energy Materials, 2017, 7, 1601852.	10.2	134
62	Simultaneously harvesting mechanical and chemical energies by a hybrid cell for self-powered biosensors and personal electronics. Energy and Environmental Science, 2013, 6, 1744.	15.6	129
63	Enhanced self-powered UV photoresponse of ferroelectric BaTiO ₃ materials by pyroelectric effect. Nano Energy, 2017, 40, 352-359.	8.2	127
64	Silicon-Based Hybrid Energy Cell for Self-Powered Electrodegradation and Personal Electronics. ACS Nano, 2013, 7, 2808-2813.	7.3	125
65	Hybrid electromagneticâ€triboelectric nanogenerator for harvesting vibration energy. Nano Research, 2015, 8, 3272-3280.	5.8	123
66	Self-Powered Wireless Smart Sensor Node Enabled by an Ultrastable, Highly Efficient, and Superhydrophobic-Surface-Based Triboelectric Nanogenerator. ACS Nano, 2016, 10, 9044-9052.	7.3	123
67	Electret Film-Enhanced Triboelectric Nanogenerator Matrix for Self-Powered Instantaneous Tactile Imaging. ACS Applied Materials & Interfaces, 2014, 6, 3680-3688.	4.0	118
68	Hybrid energy cells for simultaneously harvesting multi-types of energies. Nano Energy, 2015, 14, 245-256.	8.2	116
69	Enhanced Photocurrent in BiFeO ₃ Materials by Coupling Temperature and Thermo-Phototronic Effects for Self-Powered Ultraviolet Photodetector System. ACS Applied Materials & Interfaces, 2018, 10, 13712-13719.	4.0	115
70	Selfâ€Powered UV Photodetector Array Based on P3HT/ZnO Nanowire Array Heterojunction. Advanced Materials Technologies, 2017, 2, 1700208.	3.0	114
71	Conjoined Pyroâ€Piezoelectric Effect for Selfâ€Powered Simultaneous Temperature and Pressure Sensing. Advanced Materials, 2019, 31, e1902831.	11.1	113
72	Thermoelectric effect induced electricity in stretchable graphene-polymer nanocomposites for ultrasensitive self-powered strain sensor system. Nano Energy, 2019, 56, 25-32.	8.2	113

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73	Hybrid energy cell for simultaneously harvesting wind, solar, and chemical energies. Nano Research, 2014, 7, 1631-1639.	5.8	111
74	Unity Convolved Design of Solid Li-ion Battery and Triboelectric Nanogenerator for Self-Powered Wearable Electronics. Advanced Energy Materials, 2017, 7, 1701629.	10.2	110
75	Hybrid energy cell for harvesting mechanical energy from one motion using two approaches. Nano Energy, 2015, 11, 162-170.	8.2	102
76	Triboelectric liquid volume sensor for self-powered lab-on-chip applications. Nano Energy, 2016, 23, 80-88.	8.2	101
77	Fully Enclosed Cylindrical Single-Electrode-Based Triboelectric Nanogenerator. ACS Applied Materials & Interfaces, 2014, 6, 553-559.	4.0	100
78	Enhanced P3HT/ZnO Nanowire Array Solar Cells by Pyro-phototronic Effect. ACS Nano, 2016, 10, 10331-10338.	7.3	100
79	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. Nano Energy, 2021, 80, 105569.	8.2	99
80	Performance and service behavior in 1-D nanostructured energy conversion devices. Nano Energy, 2015, 14, 30-48.	8.2	96
81	Cellulose-Based Fully Green Triboelectric Nanogenerators with Output Power Density of 300 W m ⁻² . Advanced Materials, 2020, 32, e2002824.	11.1	93
82	Interfacial electronic structure engineering on molybdenum sulfide for robust dual-pH hydrogen evolution. Nature Communications, 2021, 12, 5260.	5.8	93
83	Nano-Newton Transverse Force Sensor Using a Vertical GaN Nanowire based on the Piezotronic Effect. Advanced Materials, 2013, 25, 883-888.	11.1	89
84	Triboelectrification-Enabled Self-Charging Lithium-ion Batteries. Advanced Energy Materials, 2017, 7, 1700103.	10.2	89
85	Dual-polarity response in self-powered ZnO NWs/Sb ₂ Se ₃ film heterojunction photodetector array for optical communication. Nano Energy, 2020, 68, 104312.	8.2	89
86	Photovoltaic-Pyroelectric Coupled Effect Based Nanogenerators for Self-Powered Photodetector System. Advanced Materials Interfaces, 2018, 5, 1701189.	1.9	88
87	Graphene-Polymer Nanocomposite-Based Redox-Induced Electricity for Flexible Self-Powered Strain Sensors. Advanced Energy Materials, 2018, 8, 1800961.	10.2	88
88	Photocurrent Polarity Controlled by Light Wavelength in Self-Powered ZnO Nanowires/SnS Photodetector System. IScience, 2018, 1, 16-23.	1.9	87
89	Piezoelectric Materials for Controlling Electro-Chemical Processes. Nano-Micro Letters, 2020, 12, 149.	14.4	87
90	Polyimide/Graphene Nanocomposite Foam-Based Wind-Driven Triboelectric Nanogenerator for Self-Powered Pressure Sensor. Advanced Materials Technologies, 2019, 4, 1800723.	3.0	86

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91	Soft triboelectric nanogenerators for mechanical energy scavenging and self-powered sensors. <i>Nano Energy</i> , 2021, 84, 105919.	8.2	80
92	A Oneâ€‘Structureâ€‘Based Multieffects Coupled Nanogenerator for Simultaneously Scavenging Thermal, Solar, and Mechanical Energies. <i>Advanced Science</i> , 2018, 5, 1700622.	5.6	79
93	Enhancing Photocurrent of Radially Polarized Ferroelectric BaTiO ₃ Materials by Ferro-Pyro-Phototronic Effect. <i>IScience</i> , 2018, 3, 208-216.	1.9	79
94	Fully enclosed hybrid electromagneticâ€‘triboelectric nanogenerator to scavenge vibrational energy. <i>Nano Research</i> , 2016, 9, 2226-2233.	5.8	78
95	Conductive Fabric-Based Stretchable Hybridized Nanogenerator for Scavenging Biomechanical Energy. <i>ACS Nano</i> , 2016, 10, 4728-4734.	7.3	78
96	Boosted photocurrent in ferroelectric BaTiO ₃ materials via two dimensional planar-structured contact configurations. <i>Nano Energy</i> , 2018, 50, 417-424.	8.2	77
97	Recent Advances in Pyroelectric Materials and Applications. <i>Small</i> , 2021, 17, e2103960.	5.2	77
98	Piezoâ€‘pyroâ€‘photoelectric effects induced coupling enhancement of charge quantity in BaTiO ₃ materials for simultaneously scavenging light and vibration energies. <i>Energy and Environmental Science</i> , 2019, 12, 1231-1240.	15.6	74
99	Design, Performance, and Application of Thermoelectric Nanogenerators. <i>Small</i> , 2019, 15, e1805241.	5.2	74
100	Improvement of the performance of dye-sensitized solar cells using Sn-doped ZnO nanoparticles. <i>Journal of Power Sources</i> , 2010, 195, 5806-5809.	4.0	73
101	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. <i>Nano-Micro Letters</i> , 2021, 13, 156.	14.4	71
102	Transparent triboelectric nanogenerator-induced high voltage pulsed electric field for a self-powered handheld printer. <i>Nano Energy</i> , 2018, 44, 468-475.	8.2	70
103	A coupled photo-piezo-catalytic effect in a BST-PDMS porous foam for enhanced dye wastewater degradation. <i>Nano Energy</i> , 2020, 77, 105305.	8.2	70
104	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable Grapheneâ€‘Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2020, 30, 1910809.	7.8	68
105	Boosting Photocurrent via Heating BiFeO ₃ Materials for Enhanced Selfâ€‘Powered UV Photodetectors. <i>Advanced Functional Materials</i> , 2020, 30, 1906232.	7.8	67
106	Standard and figure-of-merit for quantifying the performance of pyroelectric nanogenerators. <i>Nano Energy</i> , 2019, 55, 534-540.	8.2	65
107	Direct Current Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2020, 10, 2002756.	10.2	64
108	Controllable fabrication and electromechanical characterization of single crystalline Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	63

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109	Ag Nanoparticle-Based Triboelectric Nanogenerator To Scavenge Wind Energy for a Self-Charging Power Unit. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43716-43723.	4.0	62
110	Stretching-enhanced triboelectric nanogenerator for efficient wind energy scavenging and ultrasensitive strain sensing. <i>Nano Energy</i> , 2020, 75, 104920.	8.2	62
111	Multi-Band Sensing for Dielectric Property of Chemicals Using Metamaterial Integrated Microfluidic Sensor. <i>Scientific Reports</i> , 2018, 8, 14801.	1.6	60
112	Achieving Light-Induced Ultrahigh Pyroelectric Charge Density Toward Self-Powered UV Light Detection. <i>Advanced Electronic Materials</i> , 2019, 5, 1800413.	2.6	59
113	A self-powered and self-functional tracking system based on triboelectric-electromagnetic hybridized blue energy harvesting module. <i>Nano Energy</i> , 2020, 72, 104684.	8.2	58
114	One-structure-based multi-effects coupled nanogenerators for flexible and self-powered multi-functional coupled sensor systems. <i>Nano Energy</i> , 2020, 71, 104632.	8.2	58
115	High-performance piezoelectric gate diode of a single polar-surface dominated ZnO nanobelt. <i>Nanotechnology</i> , 2009, 20, 125201.	1.3	55
116	Boosted photocurrent via cooling ferroelectric BaTiO ₃ materials for self-powered 405-nm light detection. <i>Nano Energy</i> , 2019, 60, 95-102.	8.2	55
117	Nanogenerator-Based Self-Charging Energy Storage Devices. <i>Nano-Micro Letters</i> , 2019, 11, 19.	14.4	53
118	Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010, 97, 223107.	1.5	52
119	Wind-Driven Triboelectric Nanogenerators for Scavenging Biomechanical Energy. <i>ACS Applied Energy Materials</i> , 2018, 1, 4269-4276.	2.5	52
120	A Shared-Electrode-Based Hybridized Electromagnetic-Triboelectric Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19573-19578.	4.0	51
121	A high-performance transparent and flexible triboelectric nanogenerator based on hydrophobic composite films. <i>Nano Energy</i> , 2020, 75, 104918.	8.2	51
122	Ferroelectric Photovoltaic Materials and Devices. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	48
123	Thermo-Phototronic Effect Enhanced InP/ZnO Nanorod Heterojunction Solar Cells for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017, 27, 1703331.	7.8	46
124	A double-helix-structured triboelectric nanogenerator enhanced with positive charge traps for self-powered temperature sensing and smart-home control systems. <i>Nanoscale</i> , 2018, 10, 19781-19790.	2.8	46
125	Recent Progress in Hybridized Nanogenerators for Energy Scavenging. <i>IScience</i> , 2020, 23, 101689.	1.9	46
126	Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Electrode-Enabled Surface Plasmon Excitation. <i>Advanced Energy Materials</i> , 2019, 9, 1902725.	10.2	45

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127	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. <i>Nanoscale</i> , 2018, 10, 10050-10062.	2.8	44
128	Enhanced photocurrent via ferro-pyro-phototronic effect in ferroelectric BaTiO ₃ materials for a self-powered flexible photodetector system. <i>Nano Energy</i> , 2020, 77, 105152.	8.2	44
129	Transverse piezoelectric field-effect transistor based on single ZnO nanobelts. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12415.	1.3	43
130	Linear-grating hybridized electromagnetic-triboelectric nanogenerator for sustainably powering portable electronics. <i>Nano Research</i> , 2016, 9, 974-984.	5.8	42
131	Enhanced Self-Powered UV Photoresponse of Ferroelectric PZT Materials by Pyroelectric Effect. <i>Advanced Materials Technologies</i> , 2017, 2, 1700221.	3.0	42
132	Implanting a solid Li-ion battery into a triboelectric nanogenerator for simultaneously scavenging and storing wind energy. <i>Nano Energy</i> , 2017, 41, 210-216.	8.2	42
133	Thermo-photoelectric coupled effect induced electricity in N-type SnSe:Br single crystals for enhanced self-powered photodetectors. <i>Nano Energy</i> , 2019, 66, 104111.	8.2	42
134	Effective polarization of ferroelectric materials by using a triboelectric nanogenerator to scavenge wind energy. <i>Nano Energy</i> , 2018, 53, 622-629.	8.2	41
135	Photovoltaic-Pyroelectric-Piezoelectric Coupled Effect Induced Electricity for Self-Powered Coupled Sensing. <i>Advanced Electronic Materials</i> , 2019, 5, 1900195.	2.6	41
136	Superelastic Graphene Nanocomposite for High Cycle-Stability Water Capture-Release under Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15616-15622.	4.0	41
137	Frequency and voltage response of a wind-driven fluttering triboelectric nanogenerator. <i>Scientific Reports</i> , 2019, 9, 5543.	1.6	41
138	Human Body Constituted Triboelectric Nanogenerators as Energy Harvesters, Code Transmitters, and Motion Sensors. <i>ACS Applied Energy Materials</i> , 2018, 1, 2955-2960.	2.5	39
139	Sensing body motions based on charges generated on the body. <i>Nano Energy</i> , 2019, 63, 103842.	8.2	39
140	Photo-thermoelectric effect induced electricity in stretchable graphene-polymer nanocomposites for ultrasensitive strain sensing. <i>Nano Research</i> , 2019, 12, 2982-2987.	5.8	39
141	Superhydrophobic surfaces-based redox-induced electricity from water droplets for self-powered wearable electronics. <i>Nano Energy</i> , 2019, 56, 547-554.	8.2	36
142	2D Nanomaterials for Effective Energy Scavenging. <i>Nano-Micro Letters</i> , 2021, 13, 82.	14.4	36
143	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification. <i>Advanced Materials</i> , 2022, 34, e2200865.	11.1	36
144	Stretchable CNTs-Ecoflex Composite as Variable-Transmittance Skin for Ultrasensitive Strain Sensing. <i>Advanced Materials Technologies</i> , 2018, 3, 1800248.	3.0	35

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145	Configuration design of BiFeO ₃ photovoltaic devices for self-powered electronic watch. Nano Energy, 2019, 64, 103909.	8.2	35
146	Optically Controlled Abnormal Photovoltaic Current Modulation with Temperature in BiFeO ₃ . Advanced Electronic Materials, 2019, 5, 1800791.	2.6	35
147	The triboelectricity of the human body. Nano Energy, 2021, 86, 106041.	8.2	35
148	Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. Applied Physics Letters, 2010, 96, .	1.5	34
149	Antibacterial triboelectric membrane-based highly-efficient self-charging supercapacitors. Nano Energy, 2017, 36, 30-37.	8.2	33
150	Structure Design and Performance of Hybridized Nanogenerators. Advanced Functional Materials, 2019, 29, 1806435.	7.8	30
151	Dual-polarity output response-based photoelectric devices. Cell Reports Physical Science, 2021, 2, 100418.	2.8	30
152	Multifunctional Chemical Sensing Platform Based on Dual-Resonant Infrared Plasmonic Perfect Absorber for On-Chip Detection of Poly(ethyl cyanoacrylate). Advanced Science, 2021, 8, e2101879.	5.6	29
153	Laser-Etched Stretchable Graphene-Polymer Composite Array for Sensitive Strain and Viscosity Sensors. Nano-Micro Letters, 2019, 11, 99.	14.4	28
154	Enhanced Power Generation from the Interaction between Sweat and Electrodes for Human Health Monitoring. ACS Energy Letters, 2020, 5, 3708-3717.	8.8	28
155	Scavenging Energy Sources Using Ferroelectric Materials. Advanced Functional Materials, 2021, 31, 2100905.	7.8	28
156	PtIr/ZnO nanowire/pentacene hybrid back-to-back double diodes. Applied Physics Letters, 2008, 93, 133101.	1.5	26
157	A Triboelectric Nanogenerator Exploiting the Bernoulli Effect for Scavenging Wind Energy. Cell Reports Physical Science, 2020, 1, 100207.	2.8	26
158	Electrical bistability and negative differential resistance in single Sb-doped ZnO nanobelts/SiO _x /p-Si heterostructured devices. Applied Physics Letters, 2010, 96, .	1.5	25
159	Mechanical and longitudinal electromechanical properties of Sb-doped ZnO nanobelts. CrystEngComm, 2010, 12, 2005.	1.3	25
160	Piezoelectric and ferroelectric properties of Ba _{0.9} Ca _{0.1} Ti _{0.9} Sn _{0.1} O ₃ lead-free ceramics with La ₂ O ₃ addition. Journal of Alloys and Compounds, 2017, 704, 193-196.	2.8	25
161	Integrating a Microwave Resonator and a Microchannel with an Immunochromatographic Strip for Stable and Quantitative Biodetection. ACS Applied Materials & Interfaces, 2019, 11, 14630-14639.	4.0	25
162	A Nonresonant Hybridized Electromagnetic-Triboelectric Nanogenerator for Irregular and Ultralow Frequency Blue Energy Harvesting. Research, 2021, 2021, 5963293.	2.8	24

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