

Ya Yang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

16,841
citations

75
h-index

125
g-index

233
ext. papers

19,650
ext. citations

13.3
avg, IF

7.3
L-index

#	Paper	IF	Citations
222	Toward large-scale energy harvesting by a nanoparticle-enhanced triboelectric nanogenerator. <i>Nano Letters</i> , 2013 , 13, 847-53	11.5	804
221	Harmonic-resonator-based triboelectric nanogenerator as a sustainable power source and a self-powered active vibration sensor. <i>Advanced Materials</i> , 2013 , 25, 6094-9	24	572
220	Human skin based triboelectric nanogenerators for harvesting biomechanical energy and as self-powered active tactile sensor system. <i>ACS Nano</i> , 2013 , 7, 9213-22	16.7	560
219	Pyroelectric nanogenerators for harvesting thermoelectric energy. <i>Nano Letters</i> , 2012 , 12, 2833-8	11.5	510
218	Triboelectric nanogenerator for harvesting wind energy and as self-powered wind vector sensor system. <i>ACS Nano</i> , 2013 , 7, 9461-8	16.7	424
217	Single-electrode-based sliding triboelectric nanogenerator for self-powered displacement vector sensor system. <i>ACS Nano</i> , 2013 , 7, 7342-51	16.7	418
216	Progress in nanogenerators for portable electronics. <i>Materials Today</i> , 2012 , 15, 532-543	21.8	351
215	Triboelectric Nanogenerator for Harvesting Vibration Energy in Full Space and as Self-Powered Acceleration Sensor. <i>Advanced Functional Materials</i> , 2014 , 24, 1401-1407	15.6	299
214	Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. <i>Nano Energy</i> , 2013 , 2, 856-862	17.1	271
213	BaTiO ₃ Nanotubes-Based Flexible and Transparent Nanogenerators. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3599-604	6.4	271
212	A self-powered triboelectric nanosensor for mercury ion detection. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5065-9	16.4	270
211	A single-electrode based triboelectric nanogenerator as self-powered tracking system. <i>Advanced Materials</i> , 2013 , 25, 6594-601	24	239
210	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014 , 4, 1301322	21.8	232
209	Enhanced triboelectric nanogenerators and triboelectric nanosensor using chemically modified TiO ₂ nanomaterials. <i>ACS Nano</i> , 2013 , 7, 4554-60	16.7	222
208	Flexible hybrid energy cell for simultaneously harvesting thermal, mechanical, and solar energies. <i>ACS Nano</i> , 2013 , 7, 785-90	16.7	209
207	Triboelectric nanogenerator as self-powered active sensors for detecting liquid/gaseous water/ethanol. <i>Nano Energy</i> , 2013 , 2, 693-701	17.1	208
206	Scanning probe study on the piezotronic effect in ZnO nanomaterials and nanodevices. <i>Advanced Materials</i> , 2012 , 24, 4647-55	24	205

205	Super-Flexible Nanogenerator for Energy Harvesting from Gentle Wind and as an Active Deformation Sensor. <i>Advanced Functional Materials</i> , 2013 , 23, 2445-2449	15.6	202
204	Scavenging Wind Energy by Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2018 , 8, 1702649	21.8	200
203	Flexible pyroelectric nanogenerators using a composite structure of lead-free KNbO ₃ nanowires. <i>Advanced Materials</i> , 2012 , 24, 5357-62	24	194
202	A One-Structure-Based Hybridized Nanogenerator for Scavenging Mechanical and Thermal Energies by Triboelectric-Piezoelectric-Pyroelectric Effects. <i>Advanced Materials</i> , 2016 , 28, 2881-7	24	191
201	Hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy for sustainably powering wearable electronics. <i>ACS Nano</i> , 2015 , 9, 3521-9	16.7	190
200	Pyroelectric nanogenerators for driving wireless sensors. <i>Nano Letters</i> , 2012 , 12, 6408-13	11.5	183
199	Triboelectric nanogenerator built inside clothes for self-powered glucose biosensors. <i>Nano Energy</i> , 2013 , 2, 1019-1024	17.1	181
198	Triboelectric nanogenerators as flexible power sources. <i>Npj Flexible Electronics</i> , 2017 , 1,	10.7	180
197	Thermoelectric nanogenerators based on single Sb-doped ZnO micro/nanobelts. <i>ACS Nano</i> , 2012 , 6, 6984-9	16.7	174
196	Nanowire-composite based flexible thermoelectric nanogenerators and self-powered temperature sensors. <i>Nano Research</i> , 2012 , 5, 888-895	10	162
195	Triboelectric Nanogenerator as an Active UV Photodetector. <i>Advanced Functional Materials</i> , 2014 , 24, 2810-2816	15.6	150
194	Efficient Scavenging of Solar and Wind Energies in a Smart City. <i>ACS Nano</i> , 2016 , 10, 5696-700	16.7	148
193	Ultrahigh sensitive piezotronic strain sensors based on a ZnSnO ₃ nanowire/microwire. <i>ACS Nano</i> , 2012 , 6, 4369-74	16.7	148
192	Hybridized Electromagnetic-Triboelectric Nanogenerator for a Self-Powered Electronic Watch. <i>ACS Nano</i> , 2015 , 9, 12301-10	16.7	147
191	Self-powered magnetic sensor based on a triboelectric nanogenerator. <i>ACS Nano</i> , 2012 , 6, 10378-83	16.7	144
190	Elasto-Aerodynamics-Driven Triboelectric Nanogenerator for Scavenging Air-Flow Energy. <i>ACS Nano</i> , 2015 , 9, 9554-63	16.7	142
189	Photovoltaic-Pyroelectric Coupled Effect Induced Electricity for Self-Powered Photodetector System. <i>Advanced Materials</i> , 2017 , 29, 1703694	24	140
188	Ultrathin Nanogenerators as Self-Powered/Active Skin Sensors for Tracking Eye Ball Motion. <i>Advanced Functional Materials</i> , 2014 , 24, 1163-1168	15.6	139

187	Single-electrode-based rotating triboelectric nanogenerator for harvesting energy from tires. <i>ACS Nano</i> , 2014 , 8, 680-9	16.7	139
186	A hybrid energy cell for self-powered water splitting. <i>Energy and Environmental Science</i> , 2013 , 6, 2429	35.4	137
185	Directed Growth and Microwave Absorption Property of Crossed ZnO Netlike Micro-/Nanostructures. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10088-10091	3.8	136
184	Manipulating nanoscale contact electrification by an applied electric field. <i>Nano Letters</i> , 2014 , 14, 1567-72	12.5	135
183	Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. <i>Applied Physics Letters</i> , 2010 , 97, 223113	3.4	133
182	Flow-driven triboelectric generator for directly powering a wireless sensor node. <i>Advanced Materials</i> , 2015 , 27, 240-8	24	131
181	Hybridized nanogenerator for simultaneously scavenging mechanical and thermal energies by electromagnetic-triboelectric-thermoelectric effects. <i>Nano Energy</i> , 2016 , 26, 164-171	17.1	130
180	Hybrid energy cell for degradation of methyl orange by self-powered electrocatalytic oxidation. <i>Nano Letters</i> , 2013 , 13, 803-8	11.5	129
179	Size dependence of dielectric constant in a single pencil-like ZnO nanowire. <i>Nano Letters</i> , 2012 , 12, 1919-25	12.5	128
178	Hybridized electromagnetic-triboelectric nanogenerator for scavenging air-flow energy to sustainably power temperature sensors. <i>ACS Nano</i> , 2015 , 9, 4553-62	16.7	127
177	Rotating-disk-based hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy as a mobile power source. <i>Nano Energy</i> , 2015 , 13, 771-780	17.1	125
176	Single micro/nanowire pyroelectric nanogenerators as self-powered temperature sensors. <i>ACS Nano</i> , 2012 , 6, 8456-61	16.7	123
175	Simultaneously harvesting mechanical and chemical energies by a hybrid cell for self-powered biosensors and personal electronics. <i>Energy and Environmental Science</i> , 2013 , 6, 1744	35.4	122
174	Piezotronic effect on the output voltage of P3HT/ZnO micro/nanowire heterojunction solar cells. <i>Nano Letters</i> , 2011 , 11, 4812-7	11.5	122
173	Fully Enclosed Triboelectric Nanogenerators for Applications in Water and Harsh Environments. <i>Advanced Energy Materials</i> , 2013 , 3, 1563-1568	21.8	116
172	Direct-Current Triboelectric Generator. <i>Advanced Functional Materials</i> , 2014 , 24, 3745-3750	15.6	116
171	Effective energy storage from a hybridized electromagnetic-triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 32, 36-41	17.1	115
170	Triboelectric nanogenerator for harvesting pendulum oscillation energy. <i>Nano Energy</i> , 2013 , 2, 1113-1120	7.1	114

169	Silicon-based hybrid energy cell for self-powered electrodegradation and personal electronics. <i>ACS Nano</i> , 2013 , 7, 2808-13	16.7	114
168	Piezo-phototronics effect on nano/microwire solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6850-6	35.4	111
167	Hierarchically patterned self-powered sensors for multifunctional tactile sensing. <i>Science Advances</i> , 2020 , 6, eabb9083	14.3	110
166	A One-Structure-Based Piezo-Tribo-Pyro-Photoelectric Effects Coupled Nanogenerator for Simultaneously Scavenging Mechanical, Thermal, and Solar Energies. <i>Advanced Energy Materials</i> , 2017 , 7, 1601852	21.8	109
165	Self-Powered Wireless Smart Sensor Node Enabled by an Ultrastable, Highly Efficient, and Superhydrophobic-Surface-Based Triboelectric Nanogenerator. <i>ACS Nano</i> , 2016 , 10, 9044-52	16.7	103
164	Hybrid energy cells for simultaneously harvesting multi-types of energies. <i>Nano Energy</i> , 2015 , 14, 245-256	17.1	102
163	Electret film-enhanced triboelectric nanogenerator matrix for self-powered instantaneous tactile imaging. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3680-8	9.5	102
162	Applicability of triboelectric generator over a wide range of temperature. <i>Nano Energy</i> , 2014 , 4, 150-156	17.1	98
161	Hybrid energy cell for simultaneously harvesting wind, solar, and chemical energies. <i>Nano Research</i> , 2014 , 7, 1631-1639	10	97
160	Unity Convolved Design of Solid Li-Ion Battery and Triboelectric Nanogenerator for Self-Powered Wearable Electronics. <i>Advanced Energy Materials</i> , 2017 , 7, 1701629	21.8	96
159	Electron Transfer in Nanoscale Contact Electrification: Effect of Temperature in the Metal-Dielectric Case. <i>Advanced Materials</i> , 2019 , 31, e1808197	24	94
158	Hybrid electromagnetic-triboelectric nanogenerator for harvesting vibration energy. <i>Nano Research</i> , 2015 , 8, 3272-3280	10	92
157	Performance and service behavior in 1-D nanostructured energy conversion devices. <i>Nano Energy</i> , 2015 , 14, 30-48	17.1	91
156	Fully enclosed cylindrical single-electrode-based triboelectric nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 553-9	9.5	88
155	Hybrid energy cell for harvesting mechanical energy from one motion using two approaches. <i>Nano Energy</i> , 2015 , 11, 162-170	17.1	87
154	Triboelectric liquid volume sensor for self-powered lab-on-chip applications. <i>Nano Energy</i> , 2016 , 23, 80-88	17.1	87
153	Enhanced self-powered UV photoresponse of ferroelectric BaTiO ₃ materials by pyroelectric effect. <i>Nano Energy</i> , 2017 , 40, 352-359	17.1	82
152	Nano-Newton transverse force sensor using a vertical GaN nanowire based on the piezotronic effect. <i>Advanced Materials</i> , 2013 , 25, 883-8	24	81

151	Triboelectrification-Enabled Self-Charging Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700103	21.8	79
150	A chaotic pendulum triboelectric-electromagnetic hybridized nanogenerator for wave energy scavenging and self-powered wireless sensing system. <i>Nano Energy</i> , 2020 , 69, 104440	17.1	79
149	Enhanced P3HT/ZnO Nanowire Array Solar Cells by Pyro-phototronic Effect. <i>ACS Nano</i> , 2016 , 10, 10331-10338	16.3	78
148	A flexible ultra-sensitive triboelectric tactile sensor of wrinkled PDMS/MXene composite films for E-skin. <i>Nano Energy</i> , 2021 , 81, 105663	17.1	76
147	Self-Powered UV Photodetector Array Based on P3HT/ZnO Nanowire Array Heterojunction. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700208	6.8	75
146	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	9.5	73
145	Thermoelectric effect induced electricity in stretchable graphene-polymer nanocomposites for ultrasensitive self-powered strain sensor system. <i>Nano Energy</i> , 2019 , 56, 25-32	17.1	73
144	Enhanced Photocurrent in BiFeO Materials by Coupling Temperature and Thermo-Phototronic Effects for Self-Powered Ultraviolet Photodetector System. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 13712-13719	9.5	71
143	Conductive Fabric-Based Stretchable Hybridized Nanogenerator for Scavenging Biomechanical Energy. <i>ACS Nano</i> , 2016 , 10, 4728-34	16.7	68
142	Improvement of the performance of dye-sensitized solar cells using Sn-doped ZnO nanoparticles. <i>Journal of Power Sources</i> , 2010 , 195, 5806-5809	8.9	65
141	Fully enclosed hybrid electromagnetic-triboelectric nanogenerator to scavenge vibrational energy. <i>Nano Research</i> , 2016 , 9, 2226-2233	10	64
140	Conjoined Pyro-Piezoelectric Effect for Self-Powered Simultaneous Temperature and Pressure Sensing. <i>Advanced Materials</i> , 2019 , 31, e1902831	24	61
139	Controllable fabrication and electromechanical characterization of single crystalline Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2008 , 92, 183117	3.4	61
138	A One-Structure-Based Multieffects Coupled Nanogenerator for Simultaneously Scavenging Thermal, Solar, and Mechanical Energies. <i>Advanced Science</i> , 2018 , 5, 1700622	13.6	61
137	Graphene-Polymer Nanocomposite-Based Redox-Induced Electricity for Flexible Self-Powered Strain Sensors. <i>Advanced Energy Materials</i> , 2018 , 8, 1800961	21.8	61
136	Polyimide/Graphene Nanocomposite Foam-Based Wind-Driven Triboelectric Nanogenerator for Self-Powered Pressure Sensor. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800723	6.8	59
135	Photovoltaic-Pyroelectric Coupled Effect Based Nanogenerators for Self-Powered Photodetector System. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701189	4.6	56
134	Transparent triboelectric nanogenerator-induced high voltage pulsed electric field for a self-powered handheld printer. <i>Nano Energy</i> , 2018 , 44, 468-475	17.1	56

133	Photocurrent Polarity Controlled by Light Wavelength in Self-Powered ZnO Nanowires/SnS Photodetector System. <i>IScience</i> , 2018 , 1, 16-23	6.1	53
132	Boosted photocurrent in ferroelectric BaTiO ₃ materials via two dimensional planar-structured contact configurations. <i>Nano Energy</i> , 2018 , 50, 417-424	17.1	49
131	PiezoPyroPhotoelectric 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	35.4	48
130	Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 97, 223107	3.4	48
129	High-performance piezoelectric gate diode of a single polar-surface dominated ZnO nanobelt. <i>Nanotechnology</i> , 2009 , 20, 125201	3.4	48
128	Design, Performance, and Application of Thermoelectric Nanogenerators. <i>Small</i> , 2019 , 15, e1805241	11	45
127	Cellulose-Based Fully Green Triboelectric Nanogenerators with Output Power Density of 300 W m. <i>Advanced Materials</i> , 2020 , 32, e2002824	24	45
126	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	9.5	43
125	Dual-polarity response in self-powered ZnO NWs/Sb ₂ Se ₃ film heterojunction photodetector array for optical communication. <i>Nano Energy</i> , 2020 , 68, 104312	17.1	43
124	Enhancing Photocurrent of Radially Polarized Ferroelectric BaTiO Materials by Ferro-Pyro-Phototronic Effect. <i>IScience</i> , 2018 , 3, 208-216	6.1	43
123	A Self-Powered Triboelectric Nanosensor for Mercury Ion Detection. <i>Angewandte Chemie</i> , 2013 , 125, 5169-5173	3.6	42
122	Structure, Performance, and Application of BiFeO Nanomaterials. <i>Nano-Micro Letters</i> , 2020 , 12, 81	19.5	41
121	A Shared-Electrode-Based Hybridized Electromagnetic-Triboelectric Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19573-8	9.5	41
120	Standard and figure-of-merit for quantifying the performance of pyroelectric nanogenerators. <i>Nano Energy</i> , 2019 , 55, 534-540	17.1	40
119	Multi-Band Sensing for Dielectric Property of Chemicals Using Metamaterial Integrated Microfluidic Sensor. <i>Scientific Reports</i> , 2018 , 8, 14801	4.9	40
118	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , 2021 , 80, 105569	17.1	39
117	One-structure-based multi-effects coupled nanogenerators for flexible and self-powered multi-functional coupled sensor systems. <i>Nano Energy</i> , 2020 , 71, 104632	17.1	38
116	Piezoelectric Materials for Controlling Electro-Chemical Processes. <i>Nano-Micro Letters</i> , 2020 , 12, 149	19.5	38

115	Achieving Light-Induced Ultrahigh Pyroelectric Charge Density Toward Self-Powered UV Light Detection. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800413	6.4	38
114	Transverse piezoelectric field-effect transistor based on single ZnO nanobelts. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12415-9	3.6	37
113	Boosting Photocurrent via Heating BiFeO ₃ Materials for Enhanced Self-Powered UV Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1906232	15.6	37
112	Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. <i>Nanoscale</i> , 2018 , 10, 10050-10062	7.7	35
111	Soft triboelectric nanogenerators for mechanical energy scavenging and self-powered sensors. <i>Nano Energy</i> , 2021 , 84, 105919	17.1	35
110	Linear-grating hybridized electromagnetic-triboelectric nanogenerator for sustainably powering portable electronics. <i>Nano Research</i> , 2016 , 9, 974-984	10	35
109	Thermo-Phototronic Effect Enhanced InP/ZnO Nanorod Heterojunction Solar Cells for Self-Powered Wearable Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1703331	15.6	34
108	Wireless Monitoring of Small Strains in Intelligent Robots via a Joule Heating Effect in Stretchable GraphenePolymer Nanocomposites. <i>Advanced Functional Materials</i> , 2020 , 30, 1910809	15.6	34
107	Nanogenerator-Based Self-Charging Energy Storage Devices. <i>Nano-Micro Letters</i> , 2019 , 11, 19	19.5	33
106	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	17.1	33
105	Boosted photocurrent via cooling ferroelectric BaTiO ₃ materials for self-powered 405 nm light detection. <i>Nano Energy</i> , 2019 , 60, 95-102	17.1	32
104	Wind-Driven Triboelectric Nanogenerators for Scavenging Biomechanical Energy. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4269-4276	6.1	32
103	Enhanced Self-Powered UV Photoresponse of Ferroelectric PZT Materials by Pyroelectric Effect. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700221	6.8	30
102	A self-powered and self-functional tracking system based on triboelectric-electromagnetic hybridized blue energy harvesting module. <i>Nano Energy</i> , 2020 , 72, 104684	17.1	30
101	Superhydrophobic surfaces-based redox-induced electricity from water droplets for self-powered wearable electronics. <i>Nano Energy</i> , 2019 , 56, 547-554	17.1	30
100	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	17.1	29
99	PhotovoltaicPyroelectricPiezoelectric Coupled Effect Induced Electricity for Self-Powered Coupled Sensing. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900195	6.4	29
98	Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. <i>Applied Physics Letters</i> , 2010 , 96, 253112	3.4	29

97	Stretching-enhanced triboelectric nanogenerator for efficient wind energy scavenging and ultrasensitive strain sensing. <i>Nano Energy</i> , 2020 , 75, 104920	17.1	29
96	Effective polarization of ferroelectric materials by using a triboelectric nanogenerator to scavenge wind energy. <i>Nano Energy</i> , 2018 , 53, 622-629	17.1	29
95	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	7.7	28
94	Human Body Constituted Triboelectric Nanogenerators as Energy Harvesters, Code Transmitters, and Motion Sensors. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2955-2960	6.1	28
93	Antibacterial triboelectric membrane-based highly-efficient self-charging supercapacitors. <i>Nano Energy</i> , 2017 , 36, 30-37	17.1	27
92	A high-performance transparent and flexible triboelectric nanogenerator based on hydrophobic composite films. <i>Nano Energy</i> , 2020 , 75, 104918	17.1	27
91	Configuration design of BiFeO ₃ photovoltaic devices for self-powered electronic watch. <i>Nano Energy</i> , 2019 , 64, 103909	17.1	27
90	Sensing body motions based on charges generated on the body. <i>Nano Energy</i> , 2019 , 63, 103842	17.1	27
89	Stretchable CNTs-Ecoflex Composite as Variable-Transmittance Skin for Ultrasensitive Strain Sensing. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800248	6.8	27
88	Mechanical and longitudinal electromechanical properties of Sb-doped ZnO nanobelts. <i>CrystEngComm</i> , 2010 , 12, 2005	3.3	25
87	A coupled photo-piezo-catalytic effect in a BST-PDMS porous foam for enhanced dye wastewater degradation. <i>Nano Energy</i> , 2020 , 77, 105305	17.1	25
86	Photo-thermoelectric effect induced electricity in stretchable graphene-polymer nanocomposites for ultrasensitive strain sensing. <i>Nano Research</i> , 2019 , 12, 2982-2987	10	24
85	Electrical bistability and negative differential resistance in single Sb-doped ZnO nanobelts/SiO _x /p-Si heterostructured devices. <i>Applied Physics Letters</i> , 2010 , 96, 093107	3.4	24
84	Direct Current Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2020 , 10, 2002756	21.8	24
83	Superelastic Graphene Nanocomposite for High Cycle-Stability Water Capture-Release under Sunlight. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15616-15622	9.5	23
82	Frequency and voltage response of a wind-driven fluttering triboelectric nanogenerator. <i>Scientific Reports</i> , 2019 , 9, 5543	4.9	23
81	Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Electrode-Enabled Surface Plasmon Excitation. <i>Advanced Energy Materials</i> , 2019 , 9, 1902725	21.8	23
80	PtIr/ZnO nanowire/pentacene hybrid back-to-back double diodes. <i>Applied Physics Letters</i> , 2008 , 93, 133104	10.1	23

79	Recent Progress in Hybridized Nanogenerators for Energy Scavenging. <i>IScience</i> , 2020 , 23, 101689	6.1	23
78	Interfacial electronic structure engineering on molybdenum sulfide for robust dual-pH hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 5260	17.4	22
77	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. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 193-196	5.7	21
76	Optically Controlled Abnormal Photovoltaic Current Modulation with Temperature in BiFeO ₃ . <i>Advanced Electronic Materials</i> , 2019 , 5, 1800791	6.4	21
75	Structure Design and Performance of Hybridized Nanogenerators. <i>Advanced Functional Materials</i> , 2019 , 29, 1806435	15.6	21
74	Differences and Similarities of Photocatalysis and Electrocatalysis in Two-Dimensional Nanomaterials: Strategies, Traps, Applications and Challenges. <i>Nano-Micro Letters</i> , 2021 , 13, 156	19.5	20
73	Laser-Etched Stretchable Graphene-Polymer Composite Array for Sensitive Strain and Viscosity Sensors. <i>Nano-Micro Letters</i> , 2019 , 11, 99	19.5	20
72	Ultra-Stable Electret Nanogenerator to Scavenge High-Speed Rotational Energy for Self-Powered Electronics. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600233	6.8	19
71	Highly Stretchable Variable-Transmittance Skin for Ultrasensitive and Wearable Strain Sensing. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700161	6.8	18
70	Synthesis and transverse electromechanical characterization of single crystalline ZnO nanoleaves. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 552-5	3.6	18
69	Fabrication, structural characterization, and photoluminescence of Ga-doped ZnO nanobelts. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 799-803	2.6	17
68	Self-Powered Wireless Monitoring of Obstacle Position and State in Gas Pipe via Flow-Driven Triboelectric Nanogenerators. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000466	6.8	17
67	Floating robotic insects to obtain electric energy from water surface for realizing some self-powered functions. <i>Nano Energy</i> , 2019 , 63, 103810	17.1	16
66	Integrating a Microwave Resonator and a Microchannel with an Immunochromatographic Strip for Stable and Quantitative Biodetection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14630-14639	9.5	16
65	High intensity, plasma-induced emission from large area ZnO nanorod array cathodes. <i>Physics of Plasmas</i> , 2008 , 15, 114505	2.1	16
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