

Ya Yang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7261276/ya-yang-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | A Nanostructured Moisture Absorbing Gel for Fast and Large-Scale Passive Dehumidification.. <i>Advanced Materials</i> , 2022 , e2200865 | 24 | 7 |
| 221 | Lever-inspired triboelectric nanogenerator with ultra-high output for pulse monitoring. <i>Nano Energy</i> , 2022 , 97, 107159 | 17.1 | 0 |
| 220 | Ferroelectric Photovoltaic Materials and Devices. <i>Advanced Functional Materials</i> , 2022 , 32, 2109625 | 15.6 | 2 |
| 219 | Multi-dimensional, transparent and foldable cellulose-based triboelectric nanogenerator for touching password recognition. <i>Nano Energy</i> , 2022 , 98, 107307 | 17.1 | 1 |
| 218 | Enhanced photocurrent in ferroelectric Bi _{0.5} Na _{0.5} TiO ₃ materials via ferro-pyro-phototronic effect. <i>Nano Energy</i> , 2022 , 98, 107312 | 17.1 | 5 |
| 217 | Ferroelectric Materials Based Coupled Nanogenerators. <i>Nanoenergy Advances</i> , 2021 , 1, 131-180 | | 5 |
| 216 | Boosting Output Performance of Triboelectric Nanogenerator via Mutual Coupling Effects Enabled Photon-Carriers and Plasmon. <i>Advanced Science</i> , 2021 , e2103957 | 13.6 | 2 |
| 215 | Recent Advances in Pyroelectric Materials and Applications. <i>Small</i> , 2021 , e2103960 | 11 | 12 |
| 214 | 2D Nanomaterials for Effective Energy Scavenging. <i>Nano-Micro Letters</i> , 2021 , 13, 82 | 19.5 | 15 |
| 213 | Self-Powered Room-Temperature Ethanol Sensor Based on Brush-Shaped Triboelectric Nanogenerator. <i>Research</i> , 2021 , 2021, 8564780 | 7.8 | 8 |
| 212 | Low-Temperature Induced Enhancement of Photoelectric Performance in Semiconducting Nanomaterials. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 3 |
| 211 | Fiber-Shaped Triboiontronic Electrochemical Transistor. <i>Research</i> , 2021 , 2021, 9840918 | 7.8 | 3 |
| 210 | Scavenging Energy Sources Using Ferroelectric Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2100905 | 19.5 | 9 |
| 209 | Dual-polarity output response-based photoelectric devices. <i>Cell Reports Physical Science</i> , 2021 , 2, 100418 | 8.1 | 6 |
| 208 | Hybridized nanogenerators for effectively scavenging mechanical and solar energies. <i>IScience</i> , 2021 , 24, 102415 | 6.1 | 5 |
| 207 | A universal managing circuit with stabilized voltage for maintaining safe operation of self-powered electronics system. <i>IScience</i> , 2021 , 24, 102502 | 6.1 | 7 |
| 206 | Soft triboelectric nanogenerators for mechanical energy scavenging and self-powered sensors. <i>Nano Energy</i> , 2021 , 84, 105919 | 17.1 | 35 |

| | | | |
|-----|--|------|----|
| 205 | Growth, Properties and Applications of BiNaTiO Ferroelectric Nanomaterials. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 3 |
| 204 | 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 |
| 203 | Defect states contributed nanoscale contact electrification at ZnO nanowires packed film surfaces. <i>Nano Energy</i> , 2021 , 79, 105406 | 17.1 | 13 |
| 202 | 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 |
| 201 | Redox-induced electricity for energy scavenging and self-powered sensors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19116-19148 | 13 | 3 |
| 200 | Self-Powered Light-Temperature Dual-Parameter Sensor Using Nb-Doped SrTiO ₃ Materials Via Thermo-Phototronic Effect. <i>Advanced Functional Materials</i> , 2021 , 31, 2010439 | 15.6 | 3 |
| 199 | Biopolymer Nanofibers for Nanogenerator Development. <i>Research</i> , 2021 , 2021, 1843061 | 7.8 | 9 |
| 198 | A Nonresonant Hybridized Electromagnetic-Triboelectric Nanogenerator for Irregular and Ultralow Frequency Blue Energy Harvesting. <i>Research</i> , 2021 , 2021, 5963293 | 7.8 | 11 |
| 197 | Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , 2021 , 80, 105569 | 17.1 | 39 |
| 196 | Investigating the Electrical Properties of Monolayer and Bilayer h-BNs via Atomic Force Microscopy. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100447 | 4.6 | 0 |
| 195 | Multifunctional Chemical Sensing Platform Based on Dual-Resonant Infrared Plasmonic Perfect Absorber for On-Chip Detection of Poly(ethyl cyanoacrylate). <i>Advanced Science</i> , 2021 , 8, e2101879 | 13.6 | 5 |
| 194 | The triboelectricity of the human body. <i>Nano Energy</i> , 2021 , 86, 106041 | 17.1 | 9 |
| 193 | On the evaluation of output voltages for quantifying the performance of pyroelectric energy harvesters. <i>Nano Energy</i> , 2021 , 86, 106045 | 17.1 | 7 |
| 192 | Electromagnetic-Triboelectric Hybridized Nanogenerators. <i>Energies</i> , 2021 , 14, 6219 | 3.1 | 4 |
| 191 | Interfacial electronic structure engineering on molybdenum sulfide for robust dual-pH hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 5260 | 17.4 | 22 |
| 190 | Chemo-phototronic effect induced electricity for enhanced self-powered photodetector system based on ZnO nanowires. <i>Nano Energy</i> , 2021 , 89, 106449 | 17.1 | 1 |
| 189 | Moisture induced electricity for self-powered microrobots. <i>Nano Energy</i> , 2021 , 90, 106499 | 17.1 | 8 |
| 188 | Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , | 9.5 | 1 |

| | | | |
|-----|---|------|----|
| 187 | DC-TENGs: Direct Current Triboelectric Nanogenerators (Adv. Energy Mater. 45/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070186 | 21.8 | |
| 186 | Thermo-Phototronic Effect Induced Electricity in Long Semiconducting ZnO Materials for Self-Powered Light and Temperature Sensors. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000176 | 6.8 | 8 |
| 185 | A high-performance transparent and flexible triboelectric nanogenerator based on hydrophobic composite films. <i>Nano Energy</i> , 2020 , 75, 104918 | 17.1 | 27 |
| 184 | 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 |
| 183 | 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 |
| 182 | Structure, Performance, and Application of BiFeO Nanomaterials. <i>Nano-Micro Letters</i> , 2020 , 12, 81 | 19.5 | 41 |
| 181 | Multieffect Coupled Nanogenerators. <i>Research</i> , 2020 , 2020, 6503157 | 7.8 | 8 |
| 180 | Stretching-enhanced triboelectric nanogenerator for efficient wind energy scavenging and ultrasensitive strain sensing. <i>Nano Energy</i> , 2020 , 75, 104920 | 17.1 | 29 |
| 179 | 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 |
| 178 | Boosting Photocurrent via Heating BiFeO ₃ Materials for Enhanced Self-Powered UV Photodetectors. <i>Advanced Functional Materials</i> , 2020 , 30, 1906232 | 15.6 | 37 |
| 177 | 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 |
| 176 | 2020 , | | 2 |
| 175 | Conjuncted photo-thermoelectric effect in ZnO-graphene nanocomposite foam for self-powered simultaneous temperature and light sensing. <i>Scientific Reports</i> , 2020 , 10, 11864 | 4.9 | 13 |
| 174 | Recent Progress in Hybridized Nanogenerators for Energy Scavenging. <i>IScience</i> , 2020 , 23, 101689 | 6.1 | 23 |
| 173 | Enhanced Power Generation from the Interaction between Sweat and Electrodes for Human Health Monitoring. <i>ACS Energy Letters</i> , 2020 , 5, 3708-3717 | 20.1 | 15 |
| 172 | Piezoelectric Materials for Controlling Electro-Chemical Processes. <i>Nano-Micro Letters</i> , 2020 , 12, 149 | 19.5 | 38 |
| 171 | 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 | 17.1 | 14 |
| 170 | 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 |

| | | | |
|-----|---|------|-----|
| 169 | Direct Current Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2020 , 10, 2002756 | 21.8 | 24 |
| 168 | Coupled Nanogenerators for New Physical Effects 2020 , 337-355 | | |
| 167 | Wind-Driven Triboelectric Nanogenerators 2020 , 19-58 | | |
| 166 | Hybridizing Nanogenerators and Sensors 2020 , 133-171 | | |
| 165 | Hybridizing Nanogenerators and Energy Storage Devices 2020 , 173-218 | | |
| 164 | PhotovoltaicPyroelectric Coupled Effect Nanogenerators 2020 , 259-292 | | |
| 163 | Multi-effects Coupled Nanogenerators 2020 , 293-335 | | |
| 162 | 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 |
| 161 | A Triboelectric Nanogenerator Exploiting the Bernoulli Effect for Scavenging Wind Energy. <i>Cell Reports Physical Science</i> , 2020 , 1, 100207 | 6.1 | 11 |
| 160 | Cellulose-Based Fully Green Triboelectric Nanogenerators with Output Power Density of 300 W m. <i>Advanced Materials</i> , 2020 , 32, e2002824 | 24 | 45 |
| 159 | Hierarchically patterned self-powered sensors for multifunctional tactile sensing. <i>Science Advances</i> , 2020 , 6, eabb9083 | 14.3 | 110 |
| 158 | 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 |
| 157 | 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 |
| 156 | Efficient water scavenging by cooling superhydrophobic surfaces to obtain jumping water droplets from air. <i>Scientific Reports</i> , 2019 , 9, 13784 | 4.9 | 8 |
| 155 | Coupling Enhancement of Photo-Thermoelectric Conversion in a Lateral ZnO Nanowire Array. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7647-7654 | 6.1 | 8 |
| 154 | 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 |
| 153 | PhotovoltaicPyroelectricPiezoelectric Coupled Effect Induced Electricity for Self-Powered Coupled Sensing. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900195 | 6.4 | 29 |
| 152 | Electron Transfer in Nanoscale Contact Electrification: Effect of Temperature in the Metal-Dielectric Case. <i>Advanced Materials</i> , 2019 , 31, e1808197 | 24 | 94 |

| | | | |
|-----|--|------|----|
| 151 | 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 |
| 150 | Nanogenerator-Based Self-Charging Energy Storage Devices. <i>Nano-Micro Letters</i> , 2019 , 11, 19 | 19.5 | 33 |
| 149 | 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 |
| 148 | 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 |
| 147 | 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 |
| 146 | Frequency and voltage response of a wind-driven fluttering triboelectric nanogenerator. <i>Scientific Reports</i> , 2019 , 9, 5543 | 4.9 | 23 |
| 145 | Optically Controlled Abnormal Photovoltaic Current Modulation with Temperature in BiFeO ₃ . <i>Advanced Electronic Materials</i> , 2019 , 5, 1800791 | 6.4 | 21 |
| 144 | Design, Performance, and Application of Thermoelectric Nanogenerators. <i>Small</i> , 2019 , 15, e1805241 | 11 | 45 |
| 143 | Structure Design and Performance of Hybridized Nanogenerators. <i>Advanced Functional Materials</i> , 2019 , 29, 1806435 | 15.6 | 21 |
| 142 | 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 |
| 141 | Configuration design of BiFeO ₃ photovoltaic devices for self-powered electronic watch. <i>Nano Energy</i> , 2019 , 64, 103909 | 17.1 | 27 |
| 140 | Sensing body motions based on charges generated on the body. <i>Nano Energy</i> , 2019 , 63, 103842 | 17.1 | 27 |
| 139 | Conjoined Pyro-Piezoelectric Effect for Self-Powered Simultaneous Temperature and Pressure Sensing. <i>Advanced Materials</i> , 2019 , 31, e1902831 | 24 | 61 |
| 138 | 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 |
| 137 | Sensors: Conjoined Pyro-Piezoelectric Effect for Self-Powered Simultaneous Temperature and Pressure Sensing (Adv. Mater. 36/2019). <i>Advanced Materials</i> , 2019 , 31, 1970257 | 24 | 2 |
| 136 | Thermo-Phototronic-Effect-Enhanced Photodetectors Based on Porous ZnO Materials. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900776 | 6.4 | 14 |
| 135 | Photo-thermoelectric effect induced electricity in stretchable graphene-polymer nanocomposites for ultrasensitive strain sensing. <i>Nano Research</i> , 2019 , 12, 2982-2987 | 10 | 24 |
| 134 | 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 |

| | | | |
|-----|--|------|-----|
| 133 | Laser-Etched Stretchable Graphene-Polymer Composite Array for Sensitive Strain and Viscosity Sensors. <i>Nano-Micro Letters</i> , 2019 , 11, 99 | 19.5 | 20 |
| 132 | Triboelectric Nanogenerators: Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Electrode-Enabled Surface Plasmon Excitation (Adv. Energy Mater. 44/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970177 | 21.8 | 3 |
| 131 | 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 |
| 130 | Standard and figure-of-merit for quantifying the performance of pyroelectric nanogenerators. <i>Nano Energy</i> , 2019 , 55, 534-540 | 17.1 | 40 |
| 129 | Achieving Light-Induced Ultrahigh Pyroelectric Charge Density Toward Self-Powered UV Light Detection. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800413 | 6.4 | 38 |
| 128 | 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 |
| 127 | Buckminsterfullerene hybridized zinc oxide tetrapods: defects and charge transfer induced optical and electrical response. <i>Nanoscale</i> , 2018 , 10, 10050-10062 | 7.7 | 35 |
| 126 | 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 |
| 125 | Photocurrent Polarity Controlled by Light Wavelength in Self-Powered ZnO Nanowires/SnS Photodetector System. <i>IScience</i> , 2018 , 1, 16-23 | 6.1 | 53 |
| 124 | Electric Field Stiffening Effect in c-Oriented Aluminum Nitride Piezoelectric Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1819-1827 | 9.5 | 6 |
| 123 | Scavenging Wind Energy by Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2018 , 8, 1702649 | 21.8 | 200 |
| 122 | PhotovoltaicPyroelectric Coupled Effect Based Nanogenerators for Self-Powered Photodetector System. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701189 | 4.6 | 56 |
| 121 | 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 |
| 120 | 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 |
| 119 | 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 |
| 118 | Stretchable CNTs-Ecoflex Composite as Variable-Transmittance Skin for Ultrasensitive Strain Sensing. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800248 | 6.8 | 27 |
| 117 | Multi-Band Sensing for Dielectric Property of Chemicals Using Metamaterial Integrated Microfluidic Sensor. <i>Scientific Reports</i> , 2018 , 8, 14801 | 4.9 | 40 |
| 116 | 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 |

| | | | |
|-----|---|------|-----|
| 115 | Enhancing Photocurrent of Radially Polarized Ferroelectric BaTiO Materials by Ferro-Pyro-Phototronic Effect. <i>IScience</i> , 2018 , 3, 208-216 | 6.1 | 43 |
| 114 | GraphenePolymer Nanocomposite-Based Redox-Induced Electricity for Flexible Self-Powered Strain Sensors. <i>Advanced Energy Materials</i> , 2018 , 8, 1800961 | 21.8 | 61 |
| 113 | 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 |
| 112 | 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 |
| 111 | Wind-Driven Triboelectric Nanogenerators for Scavenging Biomechanical Energy. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4269-4276 | 6.1 | 32 |
| 110 | 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 |
| 109 | Dielectric and ferroelectric properties of Ba _{0.97-x} CaxLa _{0.03} Ti _{0.9} Sn _{0.1} O ₃ lead-free ceramics. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 141-145 | 5.7 | 15 |
| 108 | Antibacterial triboelectric membrane-based highly-efficient self-charging supercapacitors. <i>Nano Energy</i> , 2017 , 36, 30-37 | 17.1 | 27 |
| 107 | Effective energy storage from a hybridized electromagnetic-triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 32, 36-41 | 17.1 | 115 |
| 106 | Self-Powered UV Photodetector Array Based on P3HT/ZnO Nanowire Array Heterojunction. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700208 | 6.8 | 75 |
| 105 | Enhanced Self-Powered UV Photoresponse of Ferroelectric PZT Materials by Pyroelectric Effect. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700221 | 6.8 | 30 |
| 104 | Photovoltaic-Pyroelectric Coupled Effect Induced Electricity for Self-Powered Photodetector System. <i>Advanced Materials</i> , 2017 , 29, 1703694 | 24 | 140 |
| 103 | Highly Stretchable Variable-Transmittance Skin for Ultrasensitive and Wearable Strain Sensing. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700161 | 6.8 | 18 |
| 102 | Enhanced self-powered UV photoresponse of ferroelectric BaTiO ₃ materials by pyroelectric effect. <i>Nano Energy</i> , 2017 , 40, 352-359 | 17.1 | 82 |
| 101 | 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 |
| 100 | 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 |
| 99 | Triboelectrification-Enabled Self-Charging Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1700103 | 21.8 | 79 |
| 98 | 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 |

| | | | |
|----|---|------|-----|
| 97 | 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 |
| 96 | Triboelectric nanogenerators as flexible power sources. <i>Npj Flexible Electronics</i> , 2017 , 1, | 10.7 | 180 |
| 95 | 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 |
| 94 | 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 |
| 93 | Enhanced P3HT/ZnO Nanowire Array Solar Cells by Pyro-phototronic Effect. <i>ACS Nano</i> , 2016 , 10, 10331-10338 | 16.7 | 78 |
| 92 | 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 |
| 91 | Fully enclosed hybrid electromagnetic-triboelectric nanogenerator to scavenge vibrational energy. <i>Nano Research</i> , 2016 , 9, 2226-2233 | 10 | 64 |
| 90 | 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 |
| 89 | Efficient Scavenging of Solar and Wind Energies in a Smart City. <i>ACS Nano</i> , 2016 , 10, 5696-700 | 16.7 | 148 |
| 88 | Conductive Fabric-Based Stretchable Hybridized Nanogenerator for Scavenging Biomechanical Energy. <i>ACS Nano</i> , 2016 , 10, 4728-34 | 16.7 | 68 |
| 87 | Triboelectric liquid volume sensor for self-powered lab-on-chip applications. <i>Nano Energy</i> , 2016 , 23, 80-88 | 7.1 | 87 |
| 86 | Linear-grating hybridized electromagnetic-triboelectric nanogenerator for sustainably powering portable electronics. <i>Nano Research</i> , 2016 , 9, 974-984 | 10 | 35 |
| 85 | 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 |
| 84 | A Shared-Electrode-Based Hybridized Electromagnetic-Triboelectric Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19573-8 | 9.5 | 41 |
| 83 | Flow-driven triboelectric generator for directly powering a wireless sensor node. <i>Advanced Materials</i> , 2015 , 27, 240-8 | 24 | 131 |
| 82 | Hybrid energy cells for simultaneously harvesting multi-types of energies. <i>Nano Energy</i> , 2015 , 14, 245-256 | 7.1 | 102 |
| 81 | Performance and service behavior in 1-D nanostructured energy conversion devices. <i>Nano Energy</i> , 2015 , 14, 30-48 | 17.1 | 91 |
| 80 | 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 |

| | | | |
|----|---|------|-----|
| 79 | 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 |
| 78 | Elasto-Aerodynamics-Driven Triboelectric Nanogenerator for Scavenging Air-Flow Energy. <i>ACS Nano</i> , 2015 , 9, 9554-63 | 16.7 | 142 |
| 77 | Hybrid electromagnetic-triboelectric nanogenerator for harvesting vibration energy. <i>Nano Research</i> , 2015 , 8, 3272-3280 | 10 | 92 |
| 76 | Hybrid energy cell for harvesting mechanical energy from one motion using two approaches. <i>Nano Energy</i> , 2015 , 11, 162-170 | 17.1 | 87 |
| 75 | Hybridized Electromagnetic-Triboelectric Nanogenerator for a Self-Powered Electronic Watch. <i>ACS Nano</i> , 2015 , 9, 12301-10 | 16.7 | 147 |
| 74 | Hybridized electromagnetic-triboelectric nanogenerator for scavenging biomechanical energy for sustainably powering wearable electronics. <i>ACS Nano</i> , 2015 , 9, 3521-9 | 16.7 | 190 |
| 73 | Fully enclosed cylindrical single-electrode-based triboelectric nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 553-9 | 9.5 | 88 |
| 72 | 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 |
| 71 | Applicability of triboelectric generator over a wide range of temperature. <i>Nano Energy</i> , 2014 , 4, 150-156 | 17.1 | 98 |
| 70 | Triboelectric Nanogenerator as an Active UV Photodetector. <i>Advanced Functional Materials</i> , 2014 , 24, 2810-2816 | 15.6 | 150 |
| 69 | Manipulating nanoscale contact electrification by an applied electric field. <i>Nano Letters</i> , 2014 , 14, 1567-72 | 12.5 | 135 |
| 68 | 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 |
| 67 | Single-electrode-based rotating triboelectric nanogenerator for harvesting energy from tires. <i>ACS Nano</i> , 2014 , 8, 680-9 | 16.7 | 139 |
| 66 | 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 |
| 65 | Direct-Current Triboelectric Generator. <i>Advanced Functional Materials</i> , 2014 , 24, 3745-3750 | 15.6 | 116 |
| 64 | Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014 , 4, 1301322 | 21.8 | 232 |
| 63 | Hybrid energy cell for simultaneously harvesting wind, solar, and chemical energies. <i>Nano Research</i> , 2014 , 7, 1631-1639 | 10 | 97 |
| 62 | A hybrid energy cell for self-powered water splitting. <i>Energy and Environmental Science</i> , 2013 , 6, 2429 | 35.4 | 137 |

| | | | |
|----|---|------|-----|
| 61 | Hybrid energy cell for degradation of methyl orange by self-powered electrocatalytic oxidation. <i>Nano Letters</i> , 2013 , 13, 803-8 | 11.5 | 129 |
| 60 | Triboelectric nanogenerator as self-powered active sensors for detecting liquid/gaseous water/ethanol. <i>Nano Energy</i> , 2013 , 2, 693-701 | 17.1 | 208 |
| 59 | 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 |
| 58 | 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 |
| 57 | Single-electrode-based sliding triboelectric nanogenerator for self-powered displacement vector sensor system. <i>ACS Nano</i> , 2013 , 7, 7342-51 | 16.7 | 418 |
| 56 | Triboelectric nanogenerator for harvesting pendulum oscillation energy. <i>Nano Energy</i> , 2013 , 2, 1113-1120 | 17.1 | 114 |
| 55 | Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. <i>Nano Energy</i> , 2013 , 2, 856-862 | 17.1 | 271 |
| 54 | 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 |
| 53 | Fully Enclosed Triboelectric Nanogenerators for Applications in Water and Harsh Environments. <i>Advanced Energy Materials</i> , 2013 , 3, 1563-1568 | 21.8 | 116 |
| 52 | 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 |
| 51 | Flexible hybrid energy cell for simultaneously harvesting thermal, mechanical, and solar energies. <i>ACS Nano</i> , 2013 , 7, 785-90 | 16.7 | 209 |
| 50 | Enhanced triboelectric nanogenerators and triboelectric nanosensor using chemically modified TiO ₂ nanomaterials. <i>ACS Nano</i> , 2013 , 7, 4554-60 | 16.7 | 222 |
| 49 | Triboelectric nanogenerator built inside clothes for self-powered glucose biosensors. <i>Nano Energy</i> , 2013 , 2, 1019-1024 | 17.1 | 181 |
| 48 | Toward large-scale energy harvesting by a nanoparticle-enhanced triboelectric nanogenerator. <i>Nano Letters</i> , 2013 , 13, 847-53 | 11.5 | 804 |
| 47 | Silicon-based hybrid energy cell for self-powered electrodegradation and personal electronics. <i>ACS Nano</i> , 2013 , 7, 2808-13 | 16.7 | 114 |
| 46 | 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 |
| 45 | A self-powered triboelectric nanosensor for mercury ion detection. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5065-9 | 16.4 | 270 |
| 44 | 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 |

| | | | |
|----|--|------|-----|
| 43 | A Self-Powered Triboelectric Nanosensor for Mercury Ion Detection. <i>Angewandte Chemie</i> , 2013 , 125, 5169-5173 | 3.6 | 42 |
| 42 | A single-electrode based triboelectric nanogenerator as self-powered tracking system. <i>Advanced Materials</i> , 2013 , 25, 6594-601 | 24 | 239 |
| 41 | Self-powered magnetic sensor based on a triboelectric nanogenerator. <i>ACS Nano</i> , 2012 , 6, 10378-83 | 16.7 | 144 |
| 40 | Single micro/nanowire pyroelectric nanogenerators as self-powered temperature sensors. <i>ACS Nano</i> , 2012 , 6, 8456-61 | 16.7 | 123 |
| 39 | Progress in nanogenerators for portable electronics. <i>Materials Today</i> , 2012 , 15, 532-543 | 21.8 | 351 |
| 38 | Pyroelectric nanogenerators for driving wireless sensors. <i>Nano Letters</i> , 2012 , 12, 6408-13 | 11.5 | 183 |
| 37 | Thermoelectric nanogenerators based on single Sb-doped ZnO micro/nanobelts. <i>ACS Nano</i> , 2012 , 6, 6984-97 | 16.7 | 174 |
| 36 | Nanowire-composite based flexible thermoelectric nanogenerators and self-powered temperature sensors. <i>Nano Research</i> , 2012 , 5, 888-895 | 10 | 162 |
| 35 | Piezo-phototronics effect on nano/microwire solar cells. <i>Energy and Environmental Science</i> , 2012 , 5, 6850-54 | 35.4 | 111 |
| 34 | BaTiO ₃ Nanotubes-Based Flexible and Transparent Nanogenerators. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3599-604 | 6.4 | 271 |
| 33 | Ultrahigh sensitive piezotronic strain sensors based on a ZnSnO ₃ nanowire/microwire. <i>ACS Nano</i> , 2012 , 6, 4369-74 | 16.7 | 148 |
| 32 | Size dependence of dielectric constant in a single pencil-like ZnO nanowire. <i>Nano Letters</i> , 2012 , 12, 1919-25 | 12.5 | 128 |
| 31 | Scanning probe study on the piezotronic effect in ZnO nanomaterials and nanodevices. <i>Advanced Materials</i> , 2012 , 24, 4647-55 | 24 | 205 |
| 30 | Flexible pyroelectric nanogenerators using a composite structure of lead-free KNbO ₃ nanowires. <i>Advanced Materials</i> , 2012 , 24, 5357-62 | 24 | 194 |
| 29 | Pyroelectric nanogenerators for harvesting thermoelectric energy. <i>Nano Letters</i> , 2012 , 12, 2833-8 | 11.5 | 510 |
| 28 | Laser detection of electrical service safety in a single ZnO nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 547-51 | 1.3 | |
| 27 | 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 |
| 26 | Electrical and mechanical coupling nanodamage in single ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 96, 123103 | 3.4 | 12 |

| | | | |
|----|---|-----|-----|
| 25 | Flexible piezoresistive strain sensor based on single Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2010 , 97, 223107 | 3.4 | 48 |
| 24 | Self-powered ultraviolet photodetector based on a single Sb-doped ZnO nanobelt. <i>Applied Physics Letters</i> , 2010 , 97, 223113 | 3.4 | 133 |
| 23 | Electrical breakdown of ZnO nanowires in metal-semiconductor-metal structure. <i>Applied Physics Letters</i> , 2010 , 96, 253112 | 3.4 | 29 |
| 22 | 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 |
| 21 | Localized ultraviolet photoresponse in single bent ZnO micro/nanowires. <i>Applied Physics Letters</i> , 2010 , 97, 133112 | 3.4 | 15 |
| 20 | Room temperature negative differential resistance based on a single ZnO nanowire/CuPc nanofilm hybrid heterojunction. <i>Applied Physics Letters</i> , 2010 , 97, 263118 | 3.4 | 15 |
| 19 | Size dependence of transverse electric transport in single ZnO nanoneedles. <i>Applied Physics Letters</i> , 2010 , 96, 152101 | 3.4 | 5 |
| 18 | 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 |
| 17 | High intensity, plasma-induced electron emission from large area carbon nanotube array cathodes. <i>Applied Physics Letters</i> , 2010 , 96, 073109 | 3.4 | 9 |
| 16 | Transverse piezoelectric field-effect transistor based on single ZnO nanobelts. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12415-9 | 3.6 | 37 |
| 15 | Synthesis and transverse electromechanical characterization of single crystalline ZnO nanoleaves. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 552-5 | 3.6 | 18 |
| 14 | Mechanical and longitudinal electromechanical properties of Sb-doped ZnO nanobelts. <i>CrystEngComm</i> , 2010 , 12, 2005 | 3.3 | 25 |
| 13 | 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 |
| 12 | Negative differential resistance in PtIr/ZnO ribbon/sexithiophen hybrid double diodes. <i>Applied Physics Letters</i> , 2009 , 95, 123112 | 3.4 | 13 |
| 11 | Electric-induced nanodamage in single ZnO nanowires. <i>Journal of Applied Physics</i> , 2009 , 105, 084319 | 2.5 | 10 |
| 10 | 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 |
| 9 | High-performance piezoelectric gate diode of a single polar-surface dominated ZnO nanobelt. <i>Nanotechnology</i> , 2009 , 20, 125201 | 3.4 | 48 |
| 8 | Field Emission Properties of Large Area Carbon Nanotube Cathodes in DC and Pulse Modes. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1081, 1 | | |

| | | | |
|---|---|-----|----|
| 7 | Controllable fabrication and electromechanical characterization of single crystalline Sb-doped ZnO nanobelts. <i>Applied Physics Letters</i> , 2008 , 92, 183117 | 3.4 | 61 |
| 6 | PtIr/ZnO nanowire/pentacene hybrid back-to-back double diodes. <i>Applied Physics Letters</i> , 2008 , 93, 133104 | 3.4 | 23 |
| 5 | High intensity, plasma-induced emission from large area ZnO nanorod array cathodes. <i>Physics of Plasmas</i> , 2008 , 15, 114505 | 2.1 | 16 |
| 4 | Ferroelectric Materials for Solar Energy Scavenging and Photodetectors. <i>Advanced Optical Materials</i> , 2101741 | 8.1 | 4 |
| 3 | Arc-Shaped Triboelectric Nanogenerator for Wind Energy Harvesting. <i>Energy Technology</i> , 2101156 | 3.5 | 1 |
| 2 | Perovskite Oxide Ferroelectric Thin Films. <i>Advanced Electronic Materials</i> , 2101409 | 6.4 | 1 |
| 1 | Nanogenerators-Based Self-Powered Sensors. <i>Advanced Materials Technologies</i> , 2200282 | 6.8 | 2 |