

Caofeng Pan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Biologically Inspired Stretchable, Multifunctional, and 3D Electronic Skin by Strain Visualization and Triboelectric Pressure Sensing. <i>Small Science</i> , 2022, 2, 2100083.	9.9	34
2	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	81
3	Recent advances in curved image sensor arrays for bioinspired vision system. <i>Nano Today</i> , 2022, 42, 101366.	11.9	16
4	Bimodal Tactile Sensor without Signal Fusion for User-Interactive Applications. <i>ACS Nano</i> , 2022, 16, 2789-2797.	14.6	54
5	Anisotropic Carrier Mobility from 2H WSe ₂ . <i>Advanced Materials</i> , 2022, 34, e2108615.	21.0	11
6	Self-powered high-performance flexible GaN/ZnO heterostructure UV photodetectors with piezo-phototronic effect enhanced photoresponse. <i>Nano Energy</i> , 2022, 94, 106945.	16.0	73
7	Molten Salt Shielded Synthesis of Monodisperse Layered CaZnOS ₄ -Based Semiconductors for Piezophotonic and X-Ray Detection Applications. <i>Small</i> , 2022, 18, e2107437.	10.0	20
8	Bidirectional Photoresponse in Perovskite/ZnO Heterostructure for Fully Optical-Controlled Artificial Synapse. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	30
9	Biodegradable, Breathable Leaf Vein-Based Tactile Sensors with Tunable Sensitivity and Sensing Range. <i>Small</i> , 2022, 18, e2106906.	10.0	28
10	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1-26.	4.3	20
11	Strain-Insensitive Self-Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Graphene/Elastomer Composite. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	47
12	Energy Conversion Analysis of Multilayered Triboelectric Nanogenerators for Synergistic Rain and Solar Energy Harvesting. <i>Advanced Materials</i> , 2022, 34, e2202238.	21.0	63
13	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retina-Like Vision Sensing. <i>Advanced Materials</i> , 2021, 33, e2006006.	21.0	87
14	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	11
15	Piezophototronic Effect in Nanosensors. <i>Small Science</i> , 2021, 1, 2000060.	9.9	28
16	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multi-Color Fluorescent Anti-Counterfeiting Labels. <i>Advanced Materials Technologies</i> , 2021, 6, 2100229.	5.8	26
17	Tunable and Nacre-Mimetic Multifunctional Electronic Skins for Highly Stretchable Contact/Noncontact Sensing. <i>Small</i> , 2021, 17, e2100542.	10.0	69
18	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. <i>ACS Energy Letters</i> , 2021, 6, 2809-2816.	17.4	48

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19	A high performance CsPbBr ₃ microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. <i>Nano Energy</i> , 2021, 85, 105951.	16.0	38
20	Piezotronics in two-dimensional materials. <i>Informa Materials</i> , 2021, 3, 987-1007.	17.3	54
21	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. <i>Nano Energy</i> , 2021, 86, 106077.	16.0	44
22	Piezo-phototronic effect enhanced performance of a p-ZnO NW based UV-Vis-NIR photodetector. <i>Nano Energy</i> , 2021, 86, 106090.	16.0	17
23	Bioinspired Multifunctional Photonic-Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Self-Powered Sensing. <i>Advanced Materials</i> , 2021, 33, e2102332.	21.0	107
24	Mechanoluminescent hybrids from a natural resource for energy-related applications. <i>Informa Materials</i> , 2021, 3, 1272-1284.	17.3	53
25	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. <i>Nanotechnology</i> , 2021, 32, 475204.	2.6	18
26	Metal Halide Perovskite Arrays: From Construction to Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005230.	14.9	40
27	Recent progress in tactile sensors and their applications in intelligent systems. <i>Science Bulletin</i> , 2020, 65, 70-88.	9.0	132
28	Lateral bipolar photoresistance effect in the CIGS heterojunction and its application in position sensitive detector and memory device. <i>Science Bulletin</i> , 2020, 65, 477-485.	9.0	28
29	Flexible GaN microwire-based piezotronic sensory memory device. <i>Nano Energy</i> , 2020, 78, 105312.	16.0	13
30	53rd Late News Paper: a-CIGZO TFT Based Active Matrix Pressure Sensor by Integrating ZnO Nanowires as Sensing Unit. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 789-791.	0.3	1
31	Real-time pressure mapping smart insole system based on a controllable vertical pore dielectric layer. <i>Microsystems and Nanoengineering</i> , 2020, 6, 62.	7.0	69
32	Force-induced charge carrier storage: a new route for stress recording. <i>Light: Science and Applications</i> , 2020, 9, 182.	16.6	83
33	Recent Progress in Optoelectronic Synapses for Artificial Visual Perception System. <i>Small Structures</i> , 2020, 1, 2000029.	12.0	90
34	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. <i>Nature Communications</i> , 2020, 11, 5629.	12.8	48
35	Bioinspired Self-Healing Human-Machine Interactive Touch Pad with Pressure-Sensitive Adhesiveness on Targeted Substrates. <i>Advanced Materials</i> , 2020, 32, e2004290.	21.0	210
36	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	30

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37	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. <i>Journal of Materiomics</i> , 2020, 6, 86-101.	5.7	102
38	Human spinal reflex like strain-controlled power devices based on piezotronic effect. <i>Science Bulletin</i> , 2020, 65, 1228-1230.	9.0	1
39	High-performance Sb-doped p-ZnO NW films for self-powered piezoelectric strain sensors. <i>Nano Energy</i> , 2020, 73, 104744.	16.0	52
40	Mechanoluminescence materials for advanced artificial skin. <i>Science Bulletin</i> , 2020, 65, 1147-1149.	9.0	62
41	Piezotronic Synapse Based on a Single GaN Microwire for Artificial Sensory Systems. <i>Nano Letters</i> , 2020, 20, 3761-3768.	9.1	26
42	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. <i>Advanced Functional Materials</i> , 2019, 29, 1905051.	14.9	56
43	Fiber-Integrated Reversibly Wavelength-Tunable Nanowire Laser Based on Nanocavity Mode Coupling. <i>ACS Nano</i> , 2019, 13, 9965-9972.	14.6	11
44	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. <i>Chemical Reviews</i> , 2019, 119, 9303-9359.	47.7	213
45	Mechanoluminescence enhancement of ZnS:Cu,Mn with piezotronic effect induced trap-depth reduction originated from PVDF ferroelectric film. <i>Nano Energy</i> , 2019, 63, 103861.	16.0	50
46	Electronic Skin for Closed-Loop Systems. <i>ACS Nano</i> , 2019, 13, 12287-12293.	14.6	103
47	Two Photonâ€Pumped Whisperingâ€Gallery Mode Lasing and Dynamic Regulation. <i>Advanced Science</i> , 2019, 6, 1900916.	11.2	9
48	WS ₂ /CsPbBr ₃ van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. <i>Nano Energy</i> , 2019, 65, 104001.	16.0	48
49	Tactile Sensors for Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900090.	6.1	80
50	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <i>Nano Energy</i> , 2019, 66, 104143.	16.0	249
51	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. <i>Nano Energy</i> , 2019, 58, 633-640.	16.0	120
52	Wavelengthâ€Tunable Micro/Nanolasers. <i>Advanced Optical Materials</i> , 2019, 7, 1900275.	7.3	13
53	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. <i>ACS Nano</i> , 2019, 13, 5049-5057.	14.6	21
54	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. <i>ACS Nano</i> , 2019, 13, 4507-4513.	14.6	82

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55	Transparent and stretchable triboelectric nanogenerator for self-powered tactile sensing. <i>Nano Energy</i> , 2019, 59, 302-310.	16.0	285
56	Coupled Ionâ€œGel Channelâ€œWidth Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1807837.	14.9	27
57	Fabrication of Largeâ€œArea Bimodal Sensors by Allâ€œInkjetâ€œPrinting. <i>Advanced Materials Technologies</i> , 2019, 4, 1800703.	5.8	40
58	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. <i>Nano Energy</i> , 2019, 59, 422-433.	16.0	198
59	Triboiontronic Transistor of MoS ₂ . <i>Advanced Materials</i> , 2019, 31, e1806905.	21.0	93
60	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. <i>Materials Today</i> , 2019, 24, 33-40.	14.2	32
61	Flexible Photodetector Arrays Based on Patterned CH ₃ NH ₃ Pb ³⁺ Cl _x Perovskite Film for Realâ€œTime Photosensing and Imaging. <i>Advanced Materials</i> , 2019, 31, e1805913.	21.0	174
62	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. <i>Nano Energy</i> , 2019, 55, 389-400.	16.0	126
63	Selfâ€œPowered Tactile Sensor Array Systems Based on the Triboelectric Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1806379.	14.9	122
64	Piezoelectric Polyacrylonitrile Nanofiber Film-Based Dual-Function Self-Powered Flexible Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15855-15863.	8.0	132
65	Piezophototronic Effect Enhanced Photoresponse of the Flexible Cu(In,Ga)Se ₂ (CIGS) Heterojunction Photodetectors. <i>Advanced Functional Materials</i> , 2018, 28, 1707311.	14.9	58
66	A Highly Stretchable Transparent Selfâ€œPowered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. <i>Advanced Materials</i> , 2018, 30, e1706738.	21.0	315
67	Piezoâ€œPhototronic Effect Modulated Deep UV Photodetector Based on ZnOâ€œGa ₂ O ₃ Heterojunction Microwire. <i>Advanced Functional Materials</i> , 2018, 28, 1706379.	14.9	126
68	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. <i>Nature Communications</i> , 2018, 9, 244.	12.8	1,034
69	Printable Skinâ€œDriven Mechanoluminescence Devices via Nanodoped Matrix Modification. <i>Advanced Materials</i> , 2018, 30, e1800291.	21.0	178
70	Networks of High Performance Triboelectric Nanogenerators Based on Liquidâ€œSolid Interface Contact Electrification for Harvesting Lowâ€œFrequency Blue Energy. <i>Advanced Energy Materials</i> , 2018, 8, 1800705.	19.5	182
71	ZnO nanowire based CIGS solar cell and its efficiency enhancement by the piezo-phototronic effect. <i>Nano Energy</i> , 2018, 49, 508-514.	16.0	95
72	Oxygen-assisted preparation of mechanoluminescent ZnS:Mn for dynamic pressure mapping. <i>Nano Research</i> , 2018, 11, 1967-1976.	10.4	45

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73	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. ACS Nano, 2018, 12, 11899-11906.	14.6	51
74	Piezo-phototronic effect on optoelectronic nanodevices. MRS Bulletin, 2018, 43, 952-958.	3.5	38
75	Recent Advances in Large-Scale Tactile Sensor Arrays Based on a Transistor Matrix. Advanced Materials Interfaces, 2018, 5, 1801061.	3.7	48
76	In ₂ O ₃ Nanowire Field-Effect Transistors with Sub-60 mV/dec Subthreshold Swing Stemming from Negative Capacitance and Their Logic Applications. ACS Nano, 2018, 12, 9608-9616.	14.6	32
77	Piezo-Phototronic Effect for Enhanced Flexible MoS ₂ /WSe ₂ van der Waals Photodiodes. Advanced Functional Materials, 2018, 28, 1802849.	14.9	130
78	Recent progress in flexible pressure sensor arrays: from design to applications. Journal of Materials Chemistry C, 2018, 6, 11878-11892.	5.5	194
79	Progress in piezotronic and piezo-phototronic effect of 2D materials. 2D Materials, 2018, 5, 042003.	4.4	62
80	Tunable single-mode lasing in a single semiconductor microrod. Optics Express, 2018, 26, 30021.	3.4	6
81	Mechanically induced strong red emission in samarium ions doped piezoelectric semiconductor CaZnOS for dynamic pressure sensing and imaging. Optics Communications, 2017, 395, 24-28.	2.1	40
82	Full Dynamic-Range Pressure Sensor Matrix Based on Optical and Electrical Dual-Mode Sensing. Advanced Materials, 2017, 29, 1605817.	21.0	176
83	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 1894-1900.	14.6	79
84	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. APL Materials, 2017, 5, .	5.1	53
85	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. Advanced Materials, 2017, 29, 1701253.	21.0	59
86	Light-Emission Enhancement in a Flexible and Size-Controllable ZnO Nanowire/Organic Light-Emitting Diode Array by the Piezotronic Effect. ACS Photonics, 2017, 4, 1344-1349.	6.6	65
87	Flexibly and Repeatedly Modulating Lasing Wavelengths in a Single Core-Shell Semiconductor Microrod. ACS Nano, 2017, 11, 5808-5814.	14.6	26
88	Piezotronics and piezo-phototronics based on <i>x</i> -axis nano/microwires: fundamentals and applications. Semiconductor Science and Technology, 2017, 32, 043005.	2.0	22
89	Flexible Light Emission Diode Arrays Made of Transferred Si Microwires-ZnO Nanofilm with Piezo-Phototronic Effect Enhanced Lighting. ACS Nano, 2017, 11, 3883-3889.	14.6	53
90	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. Nano Energy, 2017, 34, 578-585.	16.0	128

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91	Recent progress in piezo-phototronics with extended materials, application areas and understanding. <i>Semiconductor Science and Technology</i> , 2017, 32, 053002.	2.0	22
92	Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. <i>Advanced Functional Materials</i> , 2017, 27, 1700051.	14.9	89
93	“Energy Relay Center” for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1190-1208.	2.8	35
94	Self-powered Real-time Movement Monitoring Sensor Using Triboelectric Nanogenerator Technology. <i>Scientific Reports</i> , 2017, 7, 10521.	3.3	77
95	Enhanced photoresponsivity of the MoS ₂ -GaN heterojunction diode via the piezo-phototronic effect. <i>NPG Asia Materials</i> , 2017, 9, e418-e418.	7.9	57
96	Efficiency enhance the photoluminescence of ZnO nanowires array by the surface plasmonic effect of Au nanoparticles. <i>International Journal of Nanomanufacturing</i> , 2016, 12, 308.	0.3	0
97	Progress in Piezo-Phototronic Effect Enhanced Light-Emitting Diodes and Pressure Imaging. <i>Advanced Materials</i> , 2016, 28, 1535-1552.	21.0	110
98	Dynamic Triboelectrification-Induced Electroluminescence and its Use in Visualized Sensing. <i>Advanced Materials</i> , 2016, 28, 6656-6664.	21.0	140
99	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. <i>ACS Nano</i> , 2016, 10, 11037-11043.	14.6	37
100	Transparent conducting oxide-free and Pt-free flexible dye-sensitized solar cells employing CuS-nanosheet networks as counter electrodes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6569-6576.	10.3	56
101	CdS nanorods/organic hybrid LED array and the piezo-phototronic effect of the device for pressure mapping. <i>Nanoscale</i> , 2016, 8, 8078-8082.	5.6	78
102	Enhanced performances of flexible ZnO/perovskite solar cells by piezo-phototronic effect. <i>Nano Energy</i> , 2016, 23, 27-33.	16.0	119
103	Progress in piezo-phototronic effect modulated photovoltaics. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 433001.	1.8	16
104	A Stretchable Nanogenerator with Electric/Light Dual-Mode Energy Conversion. <i>Advanced Energy Materials</i> , 2016, 6, 1600829.	19.5	74
105	CdS@SiO ₂ Core-Shell Electroluminescent Nanorod Arrays Based on a Metal-Insulator-Semiconductor Structure. <i>Small</i> , 2016, 12, 5734-5740.	10.0	14
106	Enhancing Photoresponsivity of Self-Aligned MoS ₂ Field-Effect Transistors by Piezo-Phototronic Effect from GaN Nanowires. <i>ACS Nano</i> , 2016, 10, 7451-7457.	14.6	86
107	Progress in piezo-phototronic effect enhanced photodetectors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11341-11354.	5.5	47
108	Bioinspired Electronic Whisker Arrays by Pencil-Drawn Paper for Adaptive Tactile Sensing. <i>Advanced Electronic Materials</i> , 2016, 2, 1600093.	5.1	59

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109	Self-Powered High-Resolution and Pressure-Sensitive Triboelectric Sensor Matrix for Real-Time Tactile Mapping. <i>Advanced Materials</i> , 2016, 28, 2896-2903.	21.0	344
110	Tuning Light Emission of a Pressure-Sensitive Silicon/ZnO Nanowires Heterostructure Matrix through Piezo-phototronic Effects. <i>ACS Nano</i> , 2016, 10, 6074-6079.	14.6	75
111	Recent Progress in Electronic Skin. <i>Advanced Science</i> , 2015, 2, 1500169.	11.2	789
112	Interface-Free Area-Scalable Self-Powered Electroluminescent System Driven by Triboelectric Generator. <i>Scientific Reports</i> , 2015, 5, 13658.	3.3	18
113	Piezo-phototronic Boolean Logic and Computation Using Photon and Strain Dual-Gated Nanowire Transistors. <i>Advanced Materials</i> , 2015, 27, 940-947.	21.0	46
114	Enhancing Light Emission of ZnO Nanofilm/Si Micropillar Heterostructure Arrays by Piezo-Phototronic Effect. <i>Advanced Materials</i> , 2015, 27, 4447-4453.	21.0	81
115	A Streaming Potential/Current-Based Microfluidic Direct Current Generator for Self-Powered Nanosystems. <i>Advanced Materials</i> , 2015, 27, 6482-6487.	21.0	104
116	Flexible, Stretchable and Wearable Multifunctional Sensor Array as Artificial Electronic Skin for Static and Dynamic Strain Mapping. <i>Advanced Electronic Materials</i> , 2015, 1, 1500142.	5.1	226
117	Temperature Dependence of the Piezophototronic Effect in CdS Nanowires. <i>Advanced Functional Materials</i> , 2015, 25, 5277-5284.	14.9	50
118	Piezo-Phototronic Enhanced UV Sensing Based on a Nanowire Photodetector Array. <i>Advanced Materials</i> , 2015, 27, 7963-7969.	21.0	115
119	Dynamic Pressure Mapping of Personalized Handwriting by a Flexible Sensor Matrix Based on the Mechanoluminescence Process. <i>Advanced Materials</i> , 2015, 27, 2324-2331.	21.0	468
120	Enhanced emission intensity of vertical aligned flexible ZnO nanowire/p-polymer hybridized LED array by piezo-phototronic effect. <i>Nano Energy</i> , 2015, 14, 364-371.	16.0	92
121	Mechanically Induced Light Emission and Infrared-Laser-Induced Upconversion in the Er-Doped CaZnOS Multifunctional Piezoelectric Semiconductor for Optical Pressure and Temperature Sensing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28136-28142.	3.1	123
122	Piezotronic effect enhanced detection of flammable/toxic gases by ZnO micro/nanowire sensors. <i>Nano Energy</i> , 2015, 12, 588-596.	16.0	74
123	Piezo-Phototronic UV/Visible Photosensing with Optical-Fiber Nanowire Hybridized Structures. <i>Advanced Materials</i> , 2015, 27, 1553-1560.	21.0	60
124	Wavelength-tunable infrared light emitting diode based on ordered ZnO nanowire/Si _{1-x} Ge _x alloy heterojunction. <i>Nano Research</i> , 2015, 8, 2676-2685.	10.4	16
125	Flexible and Controllable Piezo-Phototronic Pressure Mapping Sensor Matrix by ZnO NW/p-Polymer LED Array. <i>Advanced Functional Materials</i> , 2015, 25, 2884-2891.	14.9	200
126	Piezotronic effect enhanced performance of Schottky-contacted optical, gas, chemical and biological nanosensors. <i>Nano Energy</i> , 2015, 14, 312-339.	16.0	71

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127	CoS NWs/Au Hybridized Networks as Efficient Counter Electrodes for Flexible Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500141.	19.5	46
128	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. <i>Nature Communications</i> , 2015, 6, 8401.	12.8	261
129	A self-powered system based on triboelectric nanogenerators and supercapacitors for metal corrosion prevention. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22663-22668.	10.3	70
130	Development and progress in piezotronics. <i>Nano Energy</i> , 2015, 14, 276-295.	16.0	84
131	Hierarchical TiO ₂ nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. <i>Nano Energy</i> , 2015, 11, 19-27.	16.0	107
132	Mapping strain/pressure with nanowire light-emitting-diode arrays by piezo-phototronic effect. , 2015, , .		0
133	Optimizing Performance of Silicon-Based p-n Junction Photodetectors by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2014, 8, 12866-12873.	14.6	120
134	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2014, 24, 6691-6699.	14.9	104
135	A Three Dimensional Multi-layered Sliding Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014, 4, 1301592.	19.5	106
136	Triboelectric Nanogenerators as a Self-Powered Motion Tracking System. <i>Advanced Functional Materials</i> , 2014, 24, 5059-5066.	14.9	83
137	Features of the piezo-phototronic effect on optoelectronic devices based on wurtzite semiconductor nanowires. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2790.	2.8	28
138	Piezotronic effect enhanced Schottky-contact ZnO micro/nanowire humidity sensors. <i>Nano Research</i> , 2014, 7, 1083-1091.	10.4	81
139	Flexible quantum dot-sensitized solar cells employing CoS nanorod arrays/graphite paper as effective counter electrodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13661.	10.3	80
140	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. <i>Nature Photonics</i> , 2013, 7, 752-758.	31.4	641
141	Piezotronic Effect on the Sensitivity and Signal Level of Schottky Contacted Proactive Micro/Nanowire Nanosensors. <i>ACS Nano</i> , 2013, 7, 1803-1810.	14.6	100
142	Piezotronics and piezo-phototronics – From single nanodevices to array of devices and then to integrated functional system. <i>Nano Today</i> , 2013, 8, 619-642.	11.9	141
143	High performance of ZnO nanowire protein sensors enhanced by the piezotronic effect. <i>Energy and Environmental Science</i> , 2013, 6, 494.	30.8	108
144	In Situ Quantitative Study of Nanoscale Triboelectrification and Patterning. <i>Nano Letters</i> , 2013, 13, 2771-2776.	9.1	210

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145	Linear-Grating Triboelectric Generator Based on Sliding Electrification. Nano Letters, 2013, 13, 2282-2289.	9.1	442
146	Toward Large-Scale Energy Harvesting by a Nanoparticle-Enhanced Triboelectric Nanogenerator. Nano Letters, 2013, 13, 847-853.	9.1	979
147	Enhanced performance of GaN nanobelt-based photodetectors by means of piezotronic effects. Nano Research, 2013, 6, 758-766.	10.4	42
148	Largely Enhanced Efficiency in ZnO Nanowire/p-Polymer Hybridized Inorganic/Organic Ultraviolet Light-Emitting Diode by Piezo-Phototronic Effect. Nano Letters, 2013, 13, 607-613.	9.1	209
149	Enhanced Performance of a ZnO Nanowire-Based Self-Powered Glucose Sensor by Piezotronic Effect. Advanced Functional Materials, 2013, 23, 5868-5874.	14.9	174
150	Triboelectric-Generator-Driven Pulse Electrodeposition for Micropatterning. Nano Letters, 2012, 12, 4960-4965.	9.1	874
151	Progress in nanogenerators for portable electronics. Materials Today, 2012, 15, 532-543.	14.2	417
152	Optical-fiber/TiO ₂ -nanowire-arrays hybrid structures with tubular counterelectrode for dye-sensitized solar cell. Nano Energy, 2012, 1, 176-182.	16.0	58
153	Hybrid cells for simultaneously harvesting multi-type energies for self-powered micro/nanosystems. Nano Energy, 2012, 1, 259-272.	16.0	97
154	Piezo-Phototronic Effect of CdSe Nanowires. Advanced Materials, 2012, 24, 5470-5475.	21.0	77
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