Caofeng Pan

List of Publications by Year
in descending order

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Version: 2024-02-01

168	19,063	8159	11899
papers	citations	76 h-index	134 g-index

168	168	168	15066
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biologically Inspired Stretchable, Multifunctional, and 3D Electronic Skin by Strain Visualization and Triboelectric Pressure Sensing. Small Science, 2022, 2, 2100083.	5.8	34
2	Significance of Flexible Substrates for Wearable and Implantable Devices: Recent Advances and Perspectives. Advanced Materials Technologies, 2022, 7, .	3.0	81
3	Recent advances in curved image sensor arrays for bioinspired vision system. Nano Today, 2022, 42, 101366.	6.2	16
4	Bimodal Tactile Sensor without Signal Fusion for User-Interactive Applications. ACS Nano, 2022, 16, 2789-2797.	7.3	54
5	Anisotropic Carrier Mobility from 2H WSe₂. Advanced Materials, 2022, 34, e2108615.	11.1	11
6	Self-powered high-performance flexible GaN/ZnO heterostructure UV photodetectors with piezo-phototronic effect enhanced photoresponse. Nano Energy, 2022, 94, 106945.	8.2	73
7	Molten Salt Shielded Synthesis of Monodisperse Layered CaZnOSâ€Based Semiconductors for Piezophotonic and Xâ€Ray Detection Applications. Small, 2022, 18, e2107437.	5.2	20
8	Bidirectional Photoresponse in Perovskiteâ€ZnO Heterostructure for Fully Opticalâ€Controlled Artificial Synapse. Advanced Optical Materials, 2022, 10, .	3.6	30
9	Biodegradable, Breathable Leaf Veinâ€Based Tactile Sensors with Tunable Sensitivity and Sensing Range. Small, 2022, 18, e2106906.	5.2	28
10	Flexible and Stretchable Strategies for Electronic Skins: Materials, Structure, and Integration. ACS Applied Electronic Materials, 2022, 4, 1-26.	2.0	20
11	Strainâ€Insensitive Selfâ€Powered Tactile Sensor Arrays Based on Intrinsically Stretchable and Patternable Ultrathin Conformal Wrinkled Grapheneâ€Elastomer Composite. Advanced Functional Materials, 2022, 32, .	7.8	47
12	Energy Conversion Analysis of Multilayered Triboelectric Nanogenerators for Synergistic Rain and Solar Energy Harvesting. Advanced Materials, 2022, 34, e2202238.	11.1	63
13	Ultrathin and Conformable Lead Halide Perovskite Photodetector Arrays for Potential Application in Retinaâ€Like Vision Sensing. Advanced Materials, 2021, 33, e2006006.	11.1	87
14	Wavelength tunable single-mode lasing from cesium lead halide perovskite microwires. Applied Physics Letters, 2021, 118, .	1.5	11
15	Piezophototronic Effect in Nanosensors. Small Science, 2021, 1, 2000060.	5.8	28
16	Stable Ultrathin Perovskite/Polyvinylidene Fluoride Composite Films for Imperceptible Multiâ€Color Fluorescent Antiâ€Counterfeiting Labels. Advanced Materials Technologies, 2021, 6, 2100229.	3.0	26
17	Tunable and Nacreâ€Mimetic Multifunctional Electronic Skins for Highly Stretchable Contactâ€Noncontact Sensing. Small, 2021, 17, e2100542.	5.2	69
18	Spherical Triboelectric Nanogenerator with Dense Point Contacts for Harvesting Multidirectional Water Wave and Vibration Energy. ACS Energy Letters, 2021, 6, 2809-2816.	8.8	48

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19	A high performance CsPbBr3 microwire based photodetector boosted by coupling plasmonic and piezo-phototronic effects. Nano Energy, 2021, 85, 105951.	8.2	38
20	Piezotronics in twoâ€dimensional materials. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 987-1007.	8.5	54
21	MXene enhanced self-powered alternating current electroluminescence devices for patterned flexible displays. Nano Energy, 2021, 86, 106077.	8.2	44
22	Piezo-phototronic effect enhanced performance of a p-ZnO NW based UVâ€“Visâ€“NIR photodetector. Nano Energy, 2021, 86, 106090.	8.2	17
23	Bioinspired Multifunctional Photonicâ€Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Selfâ€Powered Sensing. Advanced Materials, 2021, 33, e2102332.	11.1	107
24	Mechanoluminescent hybrids from a natural resource for energyâ€related applications. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 1272-1284.	8.5	53
25	Interfacial-engineering enhanced performance and stability of ZnO nanowire-based perovskite solar cells. Nanotechnology, 2021, 32, 475204.	1.3	18
26	Metal Halide Perovskite Arrays: From Construction to Optoelectronic Applications. Advanced Functional Materials, 2021, 31, 2005230.	7.8	40
27	Recent progress in tactile sensors and their applications in intelligent systems. Science Bulletin, 2020, 65, 70-88.	4.3	132
28	Lateral bipolar photoresistance effect in the CIGS heterojunction and its application in position sensitive detector and memory device. Science Bulletin, 2020, 65, 477-485.	4.3	28
29	Flexible GaN microwire-based piezotronic sensory memory device. Nano Energy, 2020, 78, 105312.	8.2	13
30	53â€5: Lateâ€News Paper: aâ€IGZO TFT Based Active Matrix Pressure Sensor by Integrating ZnO Nanowires as Sensing Unit. Digest of Technical Papers SID International Symposium, 2020, 51, 789-791.	0.1	1
31	Real-time pressure mapping smart insole system based on a controllable vertical pore dielectric layer. Microsystems and Nanoengineering, 2020, 6, 62.	3.4	69
32	Force-induced charge carrier storage: a new route for stress recording. Light: Science and Applications, 2020, 9, 182.	7.7	83
33	Recent Progress in Optoelectronic Synapses for Artificial Visualâ€Perception System. Small Structures, 2020, 1, 2000029.	6.9	90
34	High precision epidermal radio frequency antenna via nanofiber network for wireless stretchable multifunction electronics. Nature Communications, 2020, 11, 5629.	5.8	48
35	Bioinspired Selfâ€Healing Humanâ€“Machine Interactive Touch Pad with Pressureâ€Sensitive Adhesiveness on Targeted Substrates. Advanced Materials, 2020, 32, e2004290.	11.1	210
36	Visually aided tactile enhancement system based on ultrathin highly sensitive crack-based strain sensors. Applied Physics Reviews, 2020, 7, .	5.5	30

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37	Recent advances of wearable and flexible piezoresistivity pressure sensor devices and its future prospects. Journal of Materiomics, 2020, 6, 86-101.	2.8	102
38	Human spinal reflex like strain-controlled power devices based on piezotronic effect. Science Bulletin, 2020, 65, 1228-1230.	4.3	1
39	High-performance Sb-doped p-ZnO NW films for self-powered piezoelectric strain sensors. Nano Energy, 2020, 73, 104744.	8.2	52
40	Mechanoluminescence materials for advanced artificial skin. Science Bulletin, 2020, 65, 1147-1149.	4.3	62
41	Piezotronic Synapse Based on a Single GaN Microwire for Artificial Sensory Systems. Nano Letters, 2020, 20, 3761-3768.	4.5	26
42	Dynamically Modulated GaN Whispering Gallery Lasing Mode for Strain Sensor. Advanced Functional Materials, 2019, 29, 1905051.	7.8	56
43	Fiber-Integrated Reversibly Wavelength-Tunable Nanowire Laser Based on Nanocavity Mode Coupling. ACS Nano, 2019, 13, 9965-9972.	7.3	11
44	Piezotronics and Piezo-phototronics of Third Generation Semiconductor Nanowires. Chemical Reviews, 2019, 119, 9303-9359.	23.0	213
45	Mechanoluminescence enhancement of ZnS:Cu,Mn with piezotronic effect induced trap-depth reduction originated from PVDF ferroelectric film. Nano Energy, 2019, 63, 103861.	8.2	50
46	Electronic Skin for Closed-Loop Systems. ACS Nano, 2019, 13, 12287-12293.	7.3	103
47	Two Photonâ€“Pumped Whisperingâ€Gallery Mode Lasing and Dynamic Regulation. Advanced Science, 2019, 6, 1900916.	5.6	9
48	WS2/CsPbBr3 van der Waals heterostructure planar photodetectors with ultrahigh on/off ratio and piezo-phototronic effect-induced strain-gated characteristics. Nano Energy, 2019, 65, 104001.	8.2	48
49	Tactile Sensors for Advanced Intelligent Systems. Advanced Intelligent Systems, 2019, 1, 1900090.	3.3	80
50	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. Nano Energy, 2019, 66, 104143.	8.2	249
51	Achieving high-resolution pressure mapping via flexible GaN/ ZnO nanowire LEDs array by piezo-phototronic effect. Nano Energy, 2019, 58, 633-640.	8.2	120
52	Wavelengthâ€Tunable Micro/Nanolasers. Advanced Optical Materials, 2019, 7, 1900275.	3.6	13
53	Crystal-Orientation-Related Dynamic Tuning of the Lasing Spectra of CdS Nanobelts by Piezoelectric Polarization. ACS Nano, 2019, 13, 5049-5057.	7.3	21
54	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	7.3	82

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55	Transparent and stretchable triboelectric nanogenerator for self-powered tactile sensing. Nano Energy, 2019, 59, 302-310.	8.2	285
56	Coupled Ionâ€Gel Channelâ€Width Gating and Piezotronic Interface Gating in ZnO Nanowire Devices. Advanced Functional Materials, 2019, 29, 1807837.	7.8	27
57	Fabrication of Largeâ€Area Bimodal Sensors by Allâ€Inkjetâ€Printing. Advanced Materials Technologies, 2019, 4, 1800703.	3.0	40
58	A Universal high accuracy wearable pulse monitoring system via high sensitivity and large linearity graphene pressure sensor. Nano Energy, 2019, 59, 422-433.	8.2	198
59	Triboiontronic Transistor of MoS₂. Advanced Materials, 2019, 31, e1806905.	11.1	93
60	Dynamic regulating of single-mode lasing in ZnO microcavity by piezoelectric effect. Materials Today, 2019, 24, 33-40.	8.3	32
61	Flexible Photodetector Arrays Based on Patterned CH₃NH₃PbI_{3â^'}_xCl_x Perovskite Film for Realâ€Time Photosensing and Imaging. Advanced Materials, 2019, 31, e1805913.	11.1	174
62	Piezophotonic effect based on mechanoluminescent materials for advanced flexible optoelectronic applications. Nano Energy, 2019, 55, 389-400.	8.2	126
63	Selfâ€Powered Tactile Sensor Array Systems Based on the Triboelectric Effect. Advanced Functional Materials, 2019, 29, 1806379.	7.8	122
64	Piezoelectric Polyacrylonitrile Nanofiber Film-Based Dual-Function Self-Powered Flexible Sensor. ACS Applied Materials & Interfaces, 2018, 10, 15855-15863.	4.0	132
65	Piezophototronic Effect Enhanced Photoresponse of the Flexible Cu(In,Ga)Se₂ (CIGS) Heterojunction Photodetectors. Advanced Functional Materials, 2018, 28, 1707311.	7.8	58
66	A Highly Stretchable Transparent Selfâ€Powered Triboelectric Tactile Sensor with Metallized Nanofibers for Wearable Electronics. Advanced Materials, 2018, 30, e1706738.	11.1	315
67	Piezoâ€Phototronic Effect Modulated Deep UV Photodetector Based on ZnOâ€Ga₂O₃ Heterojuction Microwire. Advanced Functional Materials, 2018, 28, 1706379.	7.8	126
68	Skin-inspired highly stretchable and conformable matrix networks for multifunctional sensing. Nature Communications, 2018, 9, 244.	5.8	1,034
69	Printable Skinâ€Driven Mechanoluminescence Devices via Nanodoped Matrix Modification. Advanced Materials, 2018, 30, e1800291.	11.1	178
70	Networks of High Performance Triboelectric Nanogenerators Based on Liquidâ€“Solid Interface Contact Electrification for Harvesting Lowâ€Frequency Blue Energy. Advanced Energy Materials, 2018, 8, 1800705.	10.2	182
71	ZnO nanowire based CIGS solar cell and its efficiency enhancement by the piezo-phototronic effect. Nano Energy, 2018, 49, 508-514.	8.2	95
72	Oxygen-assisted preparation of mechanoluminescent ZnS:Mn for dynamic pressure mapping. Nano Research, 2018, 11, 1967-1976.	5.8	45

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73	Piezoelectric Effect Tuning on ZnO Microwire Whispering-Gallery Mode Lasing. ACS Nano, 2018, 12, 11899-11906.	7.3	51
74	Piezo-phototronic effect on optoelectronic nanodevices. MRS Bulletin, 2018, 43, 952-958.	1.7	38
75	Recent Advances in Largeâ€Scale Tactile Sensor Arrays Based on a Transistor Matrix. Advanced Materials Interfaces, 2018, 5, 1801061.	1.9	48
76	In₂O₃ 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.	7.3	32
77	Piezoâ€Phototronic Effect for Enhanced Flexible MoS₂/WSe₂ van der Waals Photodiodes. Advanced Functional Materials, 2018, 28, 1802849.	7.8	130
78	Recent progress in flexible pressure sensor arrays: from design to applications. Journal of Materials Chemistry C, 2018, 6, 11878-11892.	2.7	194
79	Progress in piezotronic and piezo-phototronic effect of 2D materials. 2D Materials, 2018, 5, 042003.	2.0	62
80	Tunable single-mode lasing in a single semiconductor microrod. Optics Express, 2018, 26, 30021.	1.7	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.	1.0	40
82	Full Dynamicâ€Range Pressure Sensor Matrix Based on Optical and Electrical Dualâ€Mode Sensing. Advanced Materials, 2017, 29, 1605817.	11.1	176
83	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. ACS Nano, 2017, 11, 1894-1900.	7.3	79
84	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. APL Materials, 2017, 5, .	2.2	53
85	Visualization Recording and Storage of Pressure Distribution through a Smart Matrix Based on the Piezotronic Effect. Advanced Materials, 2017, 29, 1701253.	11.1	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.	3.2	65
87	Flexibly and Repeatedly Modulating Lasing Wavelengths in a Single Coreâ€“Shell Semiconductor Microrod. ACS Nano, 2017, 11, 5808-5814.	7.3	26
88	Piezotronics and piezo-phototronics based ona-axis nano/microwires: fundamentals and applications. Semiconductor Science and Technology, 2017, 32, 043005.	1.0	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.	7.3	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.	8.2	128

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91	Recent progress in piezo-phototronics with extended materials, application areas and understanding. Semiconductor Science and Technology, 2017, 32, 053002.	1.0	22
92	Photoluminescence Tuning in Stretchable PDMS Film Grafted Doped Core/Multishell Quantum Dots for Anticounterfeiting. Advanced Functional Materials, 2017, 27, 1700051.	7.8	89
93	â€œEnergy Relay Centerâ€•for doped mechanoluminescence materials: a case study on Cu-doped and Mn-doped CaZnOS. Physical Chemistry Chemical Physics, 2017, 19, 1190-1208.	1.3	35
94	Self-powered Real-time Movement Monitoring Sensor Using Triboelectric Nanogenerator Technology. Scientific Reports, 2017, 7, 10521.	1.6	77
95	Enhanced photoresponsivity of the MoS2-GaN heterojunction diode via the piezo-phototronic effect. NPG Asia Materials, 2017, 9, e418-e418.	3.8	57
96	Efficiency enhance the photoluminescence of ZnO nanowires array by the surface plasmonic effect of Au nanoparticles. International Journal of Nanomanufacturing, 2016, 12, 308.	0.3	0
97	Progress in Piezoâ€Phototronicâ€Effectâ€Enhanced Lightâ€Emitting Diodes and Pressure Imaging. Advanced Materials, 2016, 28, 1535-1552.	11.1	110
98	Dynamic Triboelectrificationâ€Induced Electroluminescence and its Use in Visualized Sensing. Advanced Materials, 2016, 28, 6656-6664.	11.1	140
99	Piezopotential-Programmed Multilevel Nonvolatile Memory As Triggered by Mechanical Stimuli. ACS Nano, 2016, 10, 11037-11043.	7.3	37
100	Transparent conducting oxide-free and Pt-free flexible dye-sensitized solar cells employing CuS-nanosheet networks as counter electrodes. Journal of Materials Chemistry A, 2016, 4, 6569-6576.	5.2	56
101	CdS nanorods/organic hybrid LED array and the piezo-phototronic effect of the device for pressure mapping. Nanoscale, 2016, 8, 8078-8082.	2.8	78
102	Enhanced performances of flexible ZnO/perovskite solar cells by piezo-phototronic effect. Nano Energy, 2016, 23, 27-33.	8.2	119
103	Progress in piezo-phototronic effect modulated photovoltaics. Journal of Physics Condensed Matter, 2016, 28, 433001.	0.7	16
104	A Stretchable Nanogenerator with Electric/Light Dualâ€Mode Energy Conversion. Advanced Energy Materials, 2016, 6, 1600829.	10.2	74
105	CdS@SiO₂Core-Shell Electroluminescent Nanorod Arrays Based on a Metal-Insulator-Semiconductor Structure. Small, 2016, 12, 5734-5740.	5.2	14
106	Enhancing Photoresponsivity of Self-Aligned MoS₂ Field-Effect Transistors by Piezo-Phototronic Effect from GaN Nanowires. ACS Nano, 2016, 10, 7451-7457.	7.3	86
107	Progress in piezo-phototronic effect enhanced photodetectors. Journal of Materials Chemistry C, 2016, 4, 11341-11354.	2.7	47
108	Bioinspired Electronic Whisker Arrays by Pencilâ€Drawn Paper for Adaptive Tactile Sensing. Advanced Electronic Materials, 2016, 2, 1600093.	2.6	59

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109	Selfâ€Powered Highâ€Resolution and Pressureâ€Sensitive Triboelectric Sensor Matrix for Realâ€Time Tactile Mapping. Advanced Materials, 2016, 28, 2896-2903.	11.1	344
110	Tuning Light Emission of a Pressure-Sensitive Silicon/ZnO Nanowires Heterostructure Matrix through Piezo-phototronic Effects. ACS Nano, 2016, 10, 6074-6079.	7.3	75
111	Recent Progress in Electronic Skin. Advanced Science, 2015, 2, 1500169.	5.6	789
112	Interface-Free Area-Scalable Self-Powered Electroluminescent System Driven by Triboelectric Generator. Scientific Reports, 2015, 5, 13658.	1.6	18
113	Piezoâ€phototronic Boolean Logic and Computation Using Photon and Strain Dualâ€Gated Nanowire Transistors. Advanced Materials, 2015, 27, 940-947.	11.1	46
114	Enhancing Light Emission of ZnOâ€Nanofilm/Siâ€Micropillar Heterostructure Arrays by Piezoâ€Phototronic Effect. Advanced Materials, 2015, 27, 4447-4453.	11.1	81
115	A Streaming Potential/Currentâ€Based Microfluidic Direct Current Generator for Selfâ€Powered Nanosystems. Advanced Materials, 2015, 27, 6482-6487.	11.1	104
116	Flexible, Stretchable and Wearable Multifunctional Sensor Array as Artificial Electronic Skin for Static and Dynamic Strain Mapping. Advanced Electronic Materials, 2015, 1, 1500142.	2.6	226
117	Temperature Dependence of the Piezophototronic Effect in CdS Nanowires. Advanced Functional Materials, 2015, 25, 5277-5284.	7.8	50
118	Piezoâ€Phototronic Enhanced UV Sensing Based on a Nanowire Photodetector Array. Advanced Materials, 2015, 27, 7963-7969.	11.1	115
119	Dynamic Pressure Mapping of Personalized Handwriting by a Flexible Sensor Matrix Based on the Mechanoluminescence Process. Advanced Materials, 2015, 27, 2324-2331.	11.1	468
120	Enhanced emission intensity of vertical aligned flexible ZnO nanowire/p-polymer hybridized LED array by piezo-phototronic effect. Nano Energy, 2015, 14, 364-371.	8.2	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. Journal of Physical Chemistry C, 2015, 119, 28136-28142.	1.5	123
122	Piezotronic effect enhanced detection of flammable/toxic gases by ZnO micro/nanowire sensors. Nano Energy, 2015, 12, 588-596.	8.2	74
123	Piezoâ€Phototronic UV/Visible Photosensing with Opticalâ€Fiberâ€“Nanowire Hybridized Structures. Advanced Materials, 2015, 27, 1553-1560.	11.1	60
124	Wavelength-tunable infrared light emitting diode based on ordered ZnO nanowire/Si1â€“x Ge x alloy heterojunction. Nano Research, 2015, 8, 2676-2685.	5.8	16
125	Flexible and Controllable Piezoâ€Phototronic Pressure Mapping Sensor Matrix by ZnO NW/pâ€Polymer LED Array. Advanced Functional Materials, 2015, 25, 2884-2891.	7.8	200
126	Piezotronic effect enhanced performance of Schottky-contacted optical, gas, chemical and biological nanosensors. Nano Energy, 2015, 14, 312-339.	8.2	71

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127	CoS NWs/Au Hybridized Networks as Efficient Counter Electrodes for Flexible Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500141.	10.2	46
128	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. Nature Communications, 2015, 6, 8401.	5.8	261
129	A self-powered system based on triboelectric nanogenerators and supercapacitors for metal corrosion prevention. Journal of Materials Chemistry A, 2015, 3, 22663-22668.	5.2	70
130	Development and progress in piezotronics. Nano Energy, 2015, 14, 276-295.	8.2	84
131	Hierarchical TiO2 nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. Nano Energy, 2015, 11, 19-27.	8.2	107
132	Mapping strain/pressure with nanowire light- emitting-diode arrays by piezo-phototronic effect. , 2015, , .		0
133	Optimizing Performance of Silicon-Based pâ€“n Junction Photodetectors by the Piezo-Phototronic Effect. ACS Nano, 2014, 8, 12866-12873.	7.3	120
134	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. Advanced Functional Materials, 2014, 24, 6691-6699.	7.8	104
135	A Three Dimensional Multiâ€Layered Sliding Triboelectric Nanogenerator. Advanced Energy Materials, 2014, 4, 1301592.	10.2	106
136	Triboelectric Nanogenerators as a Selfâ€Powered Motion Tracking System. Advanced Functional Materials, 2014, 24, 5059-5066.	7.8	83
137	Features of the piezo-phototronic effect on optoelectronic devices based on wurtzite semiconductor nanowires. Physical Chemistry Chemical Physics, 2014, 16, 2790.	1.3	28
138	Piezotronic effect enhanced Schottky-contact ZnO micro/nanowire humidity sensors. Nano Research, 2014, 7, 1083-1091.	5.8	81
139	Flexible quantum dot-sensitized solar cells employing CoS nanorod arrays/graphite paper as effective counter electrodes. Journal of Materials Chemistry A, 2014, 2, 13661.	5.2	80
140	High-resolution electroluminescent imaging of pressure distribution using a piezoelectric nanowire LED array. Nature Photonics, 2013, 7, 752-758.	15.6	641
141	Piezotronic Effect on the Sensitivity and Signal Level of Schottky Contacted Proactive Micro/Nanowire Nanosensors. ACS Nano, 2013, 7, 1803-1810.	7.3	100
142	Piezotronics and piezo-phototronics â€“ From single nanodevices to array of devices and then to integrated functional system. Nano Today, 2013, 8, 619-642.	6.2	141
143	High performance of ZnO nanowire protein sensors enhanced by the piezotronic effect. Energy and Environmental Science, 2013, 6, 494.	15.6	108
144	In Situ Quantitative Study of Nanoscale Triboelectrification and Patterning. Nano Letters, 2013, 13, 2771-2776.	4.5	210

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145	Linear-Grating Triboelectric Generator Based on Sliding Electrification. Nano Letters, 2013, 13, 2282-2289.	4.5	442
146	Toward Large-Scale Energy Harvesting by a Nanoparticle-Enhanced Triboelectric Nanogenerator. Nano Letters, 2013, 13, 847-853.	4.5	979
147	Enhanced performance of GaN nanobelt-based photodetectors by means of piezotronic effects. Nano Research, 2013, 6, 758-766.	5.8	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.	4.5	209
149	Enhanced Performance of a ZnO Nanowireâ€Based Selfâ€Powered Glucose Sensor by Piezotronic Effect. Advanced Functional Materials, 2013, 23, 5868-5874.	7.8	174
150	Triboelectric-Generator-Driven Pulse Electrodeposition for Micropatterning. Nano Letters, 2012, 12, 4960-4965.	4.5	874
151	Progress in nanogenerators for portable electronics. Materials Today, 2012, 15, 532-543.	8.3	417
152	Optical-fiber/TiO2-nanowire-arrays hybrid structures with tubular counterelectrode for dye-sensitized solar cell. Nano Energy, 2012, 1, 176-182.	8.2	58
153	Hybrid cells for simultaneously harvesting multi-type energies for self-powered micro/nanosystems. Nano Energy, 2012, 1, 259-272.	8.2	97
154	Piezoâ€Phototronic Effect of CdSe Nanowires. Advanced Materials, 2012, 24, 5470-5475.	11.1	77
155	Rectangular Bunched Rutile TiO₂ Nanorod Arrays Grown on Carbon Fiber for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2012, 134, 4437-4441.	6.6	349
156	Vertically Aligned CdSe Nanowire Arrays for Energy Harvesting and Piezotronic Devices. ACS Nano, 2012, 6, 6478-6482.	7.3	91
157	Enhanced Cu₂S/CdS Coaxial Nanowire Solar Cells by Piezo-Phototronic Effect. Nano Letters, 2012, 12, 3302-3307.	4.5	174
158	Piezotronic Effect on the Transport Properties of GaN Nanobelts for Active Flexible Electronics. Advanced Materials, 2012, 24, 3532-3537.	11.1	114
159	Optical Fiberâ€Based Coreâ€“Shell Coaxially Structured Hybrid Cells for Selfâ€Powered Nanosystems. Advanced Materials, 2012, 24, 3356-3361.	11.1	80
160	Wafer-Scale High-Throughput Ordered Arrays of Si and Coaxial Si/Si_{1â€“x}Ge_x Wires: Fabrication, Characterization, and Photovoltaic Application. ACS Nano, 2011, 5, 6629-6636.	7.3	67
161	From proton conductive nanowires to nanofuel cells: A powerful candidate for generating electricity for self-powered nanosystems. Nano Research, 2011, 4, 1099-1109.	5.8	9
162	Fiberâ€Based Hybrid Nanogenerators for/as Selfâ€Powered Systems in Biological Liquid. Angewandte Chemie - International Edition, 2011, 50, 11192-11196.	7.2	92

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163	Generating Electricity from Biofluid with a Nanowireâ€Based Biofuel Cell for Selfâ€Powered Nanodevices. Advanced Materials, 2010, 22, 5388-5392.	11.1	99
164	Highly Sensitive Amperometric Cholesterol Biosensor Based on Pt-Incorporated Fullerene-like ZnO Nanospheres. Journal of Physical Chemistry C, 2010, 114, 243-250.	1.5	131
165	A Single ZnO Nanofiber-Based Highly Sensitive Amperometric Glucose Biosensor. Journal of Physical Chemistry C, 2010, 114, 9308-9313.	1.5	213
166	Bulk synthesis route of the oriented arrays of tip-shape ZnO nanowires and an investigation of their sensing capabilities. Chemical Physics Letters, 2009, 480, 105-109.	1.2	24
167	Nanowireâ€Based Highâ€Performance â€œMicro Fuel Cellsâ€: One Nanowire, One Fuel Cell. Advanced Materials, 2008, 20, 1644-1648.	11.1	126
168	Nano-porous anodic aluminium oxide membranes with 6â€“19 nm pore diameters formed by a low-potential anodizing process. Nanotechnology, 2007, 18, 345302.	1.3	44