Yan Zhang

List of Publications by Year
in descending order

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		13078	20777
209	14,540	68	116
papers	citations	h-index	g-index

220	220	220	15817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wireless real-time monitoring based on triboelectric nanogenerator with artificial intelligence. Internet of Things and Cyber-physical Systems, 2024, 4, 77-81.	8.8	2
2	High-efficiency piezo-phototronic solar cells by strain-induced polarization. MRS Bulletin, 2024, 49, 91-99.	4.2	0
3	Selfâ€Powered Wireless Temperature Monitor System Based on Triboelectric Nanogenerator with Machine Learning. Advanced Energy and Sustainability Research, 2024, 5, .	6.1	4
4	Self-Powered Wireless Devices and Machine Learning Enable Local Humidity Monitoring. IEEE Transactions on Intelligent Transportation Systems, 2024, , 1-6.	8.4	0
5	A wireless battery-free eye modulation patch for high myopia therapy. Nature Communications, 2024, 15, .	13.2	6
6	Recent Progress in Regulating Surface Potential for High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2024, 9, 1674-1681.	18.4	3
7	Polarization-induced giant thermoelectric effect in monolayer MoS2. Journal of Applied Physics, 2024, 135, .	2.3	0
8	Recent advances in high charge density triboelectric nanogenerators. International Journal of Extreme Manufacturing, 2024, 6, 042001.	12.8	2
9	Implantable self-powered therapeutic pellet for wireless photodynamic/sonodynamic hybrid therapy of cancer recurrence inhibition and tumor regression. Nano Energy, 2023, 105, 108002.	16.5	17
10	Association between Management Care Perception and Professional Quality of Life among Intensive Care Unit Nurses: A Cross-Sectional Study. Perspectives in Psychiatric Care, 2023, 2023, 1-8.	2.0	0
11	Graves' Disease-Associated Dilated Cardiomyopathy Unmasked by Blunt Chest Trauma. Cureus, 2023, , .	0.5	0
12	Highâ€Speed Data Communication for Oil and Natural Gas Drilling Based on Triboelectric Nanogenerator. Advanced Materials Technologies, 2023, 8, .	6.2	1
13	Polarization-driven high Rabi frequency of piezotronic valley transistors. Nano Energy, 2023, 113, 108550.	16.5	3
14	Polarization-Driven Topological-Insulator Transition for Piezotronic Field-Effect Transistors with Subthreshold Swing of 5ÂmV/decade. Physical Review Applied, 2023, 20, .	3.8	0
15	A self-powered biocompatible brain probe for remote blood pressure regulation. Nano Energy, 2023, 115, 108764.	16.5	2
16	A self-powered wireless detachable drug/light injector for metronomic photodynamic therapy in cancer treatment. Nano Energy, 2023, 116, 108826.	16.5	9
17	Multi-Charge Storage Layer Model of High-Charge-Density Triboelectric Nanogenerator. Nanoenergy Advances, 2023, 3, 247-258.	8.1	1
18	Theory of high performance piezotronic quantum harmonic oscillator under nonuniform strain. Nano Energy, 2023, 118, 108954.	16.5	0

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19	High-Performance Piezophototronic Solar Cells Based on Polarization Modulation Perovskite. Advanced Devices & Instrumentation, 2023, 4, .	6.8	7
20	Recent Progress in Polarizationâ€Enhanced PVDFâ€Based Perovskite Solar Cells. Solar Rrl, 2023, 7, .	6.0	0
21	Triboelectric nanogenerator and artificial intelligence to promote precision medicine for cancer. Nano Energy, 2022, 92, 106783.	16.5	38
22	Constructing nanocomposites with robust covalent connection between nanoparticles and polymer for high discharged energy density and excellent tensile properties. Journal of Energy Chemistry, 2022, 68, 195-205.	13.4	20
23	A self-powered wearable body-detecting/brain-stimulating system for improving sports endurance performance. Nano Energy, 2022, 93, 106851.	16.5	17
24	A self-powered closed-loop brain-machine-interface system for real-time detecting and rapidly adjusting blood glucose concentration. Nano Energy, 2022, 93, 106817.	16.5	22
25	Piezo-phototronic intersubband terahertz devices based on layer-dependent van der Waals quantum well. Nano Energy, 2022, 94, 106912.	16.5	7
26	Optimizing care coordination to address social determinants of health needs for dual-use veterans. BMC Health Services Research, 2022, 22, 59.	2.2	8
27	Piezo-phototronic spin laser based on wurtzite quantum wells. Nano Energy, 2022, 96, 107100.	16.5	5
28	High performance quantum piezotronic tunneling transistor based on edge states of MoS2 nanoribbon. Nano Energy, 2022, 98, 107275.	16.5	10
29	Ultrahigh sensitivity and ultrafast piezotronic and piezophototronic avalanche devices. Nano Energy, 2022, 100, 107450.	16.5	1
30	Deep-neural-network solution of piezo-phototronic transistor based on GaN/AlN quantum wells. Nano Energy, 2022, 101, 107586.	16.5	2
31	High performance piezotronic thermoelectric devices based on zigzag MoS2 nanoribbon. Nano Energy, 2022, 104, 107888.	16.5	7
32	HMGCS1 Promotes male differentiation of chicken embryos by regulating the generate of cholesterol. International Journal of Transgender Health, 2021, 14, 577-587.	1.4	5
33	Enhanced Electrical Performance of Monolayer MoS2 with Rare Earth Element Sm Doping. Nanomaterials, 2021, 11, 769.	4.2	19
34	Highâ€Performance Piezoâ€Phototronic Devices Based on Intersubband Transition of Wurtzite Quantum Well. Small, 2021, 17, e2008106.	11.2	7
35	Piezoelectric tunability and topological insulator transition in a GaN/InN/GaN quantum-well device. JPhys Materials, 2021, 4, 034008.	4.3	1
36	Construction of Bioâ€Piezoelectric Platforms: From Structures and Synthesis to Applications. Advanced Materials, 2021, 33, e2008452.	24.3	132

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37	Triboelectric nanogenerator based self-powered sensor for artificial intelligence. Nano Energy, 2021, 84, 105887.	16.5	191
38	Edge-state transport in circular quantum point contact quantum piezotronic transistors. Nano Energy, 2021, 85, 106002.	16.5	1
39	Nanogenerator-based self-powered sensors for data collection. Beilstein Journal of Nanotechnology, 2021, 12, 680-693.	2.9	20
40	Combining triboelectric nanogenerator with piezoelectric effect for optimizing Schottky barrier height modulation. Science Bulletin, 2021, 66, 1409-1418.	11.1	9
41	Polarization Field on Edge States of Single-layered MoS2. Journal of Physics: Conference Series, 2021, 2002, 012053.	0.4	0
42	Piezophototronic Effect Enhanced Perovskite Solar Cell Based on P(VDFâ€TrFE). Solar Rrl, 2021, 5, 2100692.	6.0	9
43	Polarization-induced ultrahigh Rashba spin-orbit interaction in ZnO/CdO quantum well. Nano Energy, 2021, 88, 106310.	16.5	5
44	C-V characteristics of piezotronic metal-insulator-semiconductor transistor. Science Bulletin, 2020, 65, 161-168.	11.1	8
45	Self-powered, wireless-control, neural-stimulating electronic skin for in vivo characterization of synaptic plasticity. Nano Energy, 2020, 67, 104182.	16.5	60
46	Reversible Conversion between Schottky and Ohmic Contacts for Highly Sensitive, Multifunctional Biosensors. Advanced Functional Materials, 2020, 30, 1907999.	16.5	62
47	Piezoelectric Materials for Controlling Electro-Chemical Processes. Nano-Micro Letters, 2020, 12, 149.	27.9	93
48	Quantum piezotronic devices based on ZnO/CdO quantum well topological insulator. Nano Energy, 2020, 77, 105154.	16.5	19
49	Dynamical charge transfer for highâ€performance triboelectric nanogenerators. Nano Select, 2020, 1, 461-470.	3.8	15
50	A chemically self-charging aqueous zinc-ion battery. Nature Communications, 2020, 11, 2199.	13.2	260
51	Triboelectric-polarization-enhanced high sensitive ZnO UV sensor. Nano Today, 2020, 33, 100873.	12.3	35
52	Polarization-Driven Edge-State Transport in Transition-Metal Dichalcogenides. Physical Review Applied, 2020, 13, .	3.8	8
53	Demonstration of Enhanced Piezo-Catalysis for Hydrogen Generation and Water Treatment at the Ferroelectric Curie Temperature. IScience, 2020, 23, 101095.	4.1	71
54	Triboelectric Nanogenerator Enhanced Schottky Nanowire Sensor for Highly Sensitive Ethanol Detection. Nano Letters, 2020, 20, 4968-4974.	9.5	68

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55	Piezotronic spin and valley transistors based on monolayer MoS2. Nano Energy, 2020, 72, 104678.	16.5	18
56	High-performance piezo-phototronic multijunction solar cells based on single-type two-dimensional materials. Nano Energy, 2020, 76, 105091.	16.5	16
57	Piezo-phototronic effect enhanced photodetectors based on MAPbI₃ perovskite. Journal of Materials Chemistry C, 2020, 8, 2709-2718.	5.6	27
58	Dynamical charge transfer model for high surface charge density triboelectric nanogenerators. Nano Energy, 2020, 70, 104513.	16.5	36
59	Flexible sensor and energy storage device based on piezoelectric nanogenerator. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 170701.	0.5	6
60	Enhanced thermoelectric performance of monolayer MoSSe, bilayer MoSSe and graphene/MoSSe heterogeneous nanoribbons. Physical Chemistry Chemical Physics, 2019, 21, 18161-18169.	2.9	37
61	Study of the Application of Deep Convolutional Neural Networks (CNNs) in Processing Sensor Data and Biomedical Images. Sensors, 2019, 19, 3584.	4.0	18
62	An artificial triboelectricity-brain-behavior closed loop for intelligent olfactory substitution. Nano Energy, 2019, 63, 103884.	16.5	48
63	A water-evaporation-induced self-charging hybrid power unit for application in the Internet of Things. Science Bulletin, 2019, 64, 1409-1417.	11.1	54
64	Piezo-phototronic effect on quantum well terahertz photodetector for continuously modulating wavelength. Nano Energy, 2019, 65, 104091.	16.5	4
65	Enhanced thermoelectric performance of twisted bilayer graphene nanoribbons junction. Carbon, 2019, 145, 622-628.	10.7	27
66	Study on electronic and optical properties of the twisted and strained MoS2/PtS2 heterogeneous interface. Applied Surface Science, 2019, 476, 308-316.	6.3	24
67	Optical and Piezoelectric Properties of Strained Orthorhombic PdS₂. IEEE Nanotechnology Magazine, 2019, 18, 358-364.	2.2	6
68	Quantum information memory based on reconfigurable topological insulators by piezotronic effect. Nano Energy, 2019, 60, 36-42.	16.5	9
69	A self-powered flexibly-arranged gas monitoring system with evaporating rainwater as fuel for building atmosphere big data. Nano Energy, 2019, 60, 52-60.	16.5	71
70	Two-dimensional electron gas in piezotronic devices. Nano Energy, 2019, 59, 667-673.	16.5	10
71	A self-powered wearable sweat-evaporation-biosensing analyzer for building sports big data. Nano Energy, 2019, 59, 754-761.	16.5	118
72	Piezoelectric Nanotopography Induced Neuronâ€Like Differentiation of Stem Cells. Advanced Functional Materials, 2019, 29, 1900372.	16.5	80

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73	High performance piezotronic devices based on non-uniform strain. Nano Energy, 2019, 60, 649-655.	16.5	19
74	Piezo-phototronic solar cell based on 2D monochalcogenides materials. Journal Physics D: Applied Physics, 2019, 52, 204001.	2.9	20
75	Clostridioides difficile Colonization Is Differentially Associated With Gut Microbiome Profiles by Infant Feeding Modality at 3â€“4 Months of Age. Frontiers in Immunology, 2019, 10, 2866.	4.9	25
76	Micro-scale to nano-scale generators for energy harvesting: Self powered piezoelectric, triboelectric and hybrid devices. Physics Reports, 2019, 792, 1-33.	26.1	115
77	Estrategias para la eliminaciÃ³n de malaria: una perspectiva afro-colombiana. Revista De Salud Publica, 2019, 21, 9-16.	0.1	6
78	High-efficiency and stable piezo-phototronic organic perovskite solar cell. RSC Advances, 2018, 8, 8694-8698.	3.7	14
79	Piezoelectric Polyacrylonitrile Nanofiber Film-Based Dual-Function Self-Powered Flexible Sensor. ACS Applied Materials & Interfaces, 2018, 10, 15855-15863.	8.3	139
80	A Selfâ€Powered Brainâ€Linked Vision Electronicâ€Skin Based on Triboelectricâ€Photodetecing Pixelâ€Addressable Matrix for Visualâ€Image Recognition and Behavior Intervention. Advanced Functional Materials, 2018, 28, 1800275.	16.5	79
81	Strain Modulated Electronic, Mechanical, and Optical Properties of the Monolayer PdS₂, PdSe₂, and PtSe₂ for Tunable Devices. ACS Applied Nano Materials, 2018, 1, 1932-1939.	5.2	93
82	Piezotronic analog-to-digital converters based on strain-gated transistors. Nano Energy, 2018, 46, 423-427.	16.5	12
83	Piezotronic Effect on Rashba Spinâ€“Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. ACS Nano, 2018, 12, 1811-1820.	15.3	65
84	Piezotronic Transistor Based on Topological Insulators. ACS Nano, 2018, 12, 779-785.	15.3	59
85	Self-powered implantable electronic-skin forin situanalysis of urea/uric-acid in body fluids and the potential applications in real-time kidney-disease diagnosis. Nanoscale, 2018, 10, 2099-2107.	5.8	51
86	Atomic-thick 2D MoS₂/insulator interjection structures for enhancing nanogenerator output. Journal of Materials Chemistry C, 2018, 6, 899-906.	5.6	10
87	Dynamic model for piezotronic and piezo-phototronic devices under low and high frequency external compressive stresses. Journal of Applied Physics, 2018, 123, .	2.3	19
88	Linear humidity response of carbon dot-modified molybdenum disulfide. Physical Chemistry Chemical Physics, 2018, 20, 4083-4091.	2.9	28
89	Magneticâ€Inducedâ€Piezopotential Gated MoS₂ Fieldâ€Effect Transistor at Room Temperature. Advanced Materials, 2018, 30, 1704524.	24.3	51
90	Strain Magnitude and Direction Effect on the Energy Band Structure of Hexagonal and Orthorhombic Monolayer MoS<inline-formula> <tex-math notation="LaTeX">$_2$</tex-math> </inline-formula>. IEEE Nanotechnology Magazine, 2018, 17, 419-423.	2.2	5

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91	Piezotronic effect on the luminescence of quantum dots for micro/nano-newton force measurement. Nano Research, 2018, 11, 1977-1986.	10.6	12
92	A self-powered brain multi-perception receptor for sensory-substitution application. Nano Energy, 2018, 44, 43-52.	16.5	46
93	A self-powered brain-linked biosensing electronic-skin for actively tasting beverage and its potential application in artificial gustation. Nanoscale, 2018, 10, 19987-19994.	5.8	24
94	A Self-Powered Breath Analyzer Based on PANI/PVDF Piezo-Gas-Sensing Arrays for Potential Diagnostics Application. Nano-Micro Letters, 2018, 10, 76.	27.9	83
95	Theory of piezotronics and piezo-phototronics. MRS Bulletin, 2018, 43, 928-935.	4.2	70
96	Enhanced H₂ Production of TiO₂/ZnO Nanowires Co-Using Solar and Mechanical Energy through Piezo-Photocatalytic Effect. ACS Sustainable Chemistry and Engineering, 2018, 6, 10162-10172.	6.9	108
97	Ultra-high sensitivity strain sensor based on piezotronic bipolar transistor. Nano Energy, 2018, 50, 744-749.	16.5	28
98	Pulse sensor based on single-electrode triboelectric nanogenerator. Sensors and Actuators A: Physical, 2018, 280, 326-331.	4.2	34
99	Enhanced Efficiency of Flexible GaN/Perovskite Solar Cells Based on the Piezo-Phototronic Effect. ACS Applied Energy Materials, 2018, 1, 3063-3069.	5.3	24
100	Self-powered wearable sensing-textiles for real-time detecting environmental atmosphere and body motion based on surface-triboelectric coupling effect. Nanotechnology, 2018, 29, 405504.	2.7	38
101	A self-powered electronic-skin for real-time perspiration analysis and application in motion state monitoring. Journal of Materials Chemistry C, 2018, 6, 9624-9630.	5.6	54
102	High performance piezotronic logic nanodevices based on GaN/InN/GaN topological insulator. Nano Energy, 2018, 50, 544-551.	16.5	42
103	Reflections on Distance Higher Education in Africa. Advances in Mobile and Distance Learning Book Series, 2018, , 236-262.	0.0	0
104	High-performance piezo-phototronic solar cell based on two-dimensional materials. Nano Energy, 2017, 32, 448-453.	16.5	69
105	A self-powered flexible vision electronic-skin for image recognition based on a pixel-addressable matrix of piezophototronic ZnO nanowire arrays. Journal of Materials Chemistry C, 2017, 5, 6005-6013.	5.6	32
106	Piezotronic PIN diode for microwave and piezophototronic devices. Semiconductor Science and Technology, 2017, 32, 044002.	2.1	9
107	Controlling the luminescence of monolayer MoS2 based on the piezoelectric effect. Nano Research, 2017, 10, 2527-2534.	10.6	30
108	Piezo-phototronic Effect Enhanced Responsivity of Photon Sensor Based on Composition-Tunable Ternary CdS_xSe_{1â€“x} Nanowires. ACS Photonics, 2017, 4, 2495-2503.	6.9	48

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109	All-solid-state flexible self-charging power cell basing on piezo-electrolyte for harvesting/storing body-motion energy and powering wearable electronics. Nano Energy, 2017, 39, 590-600.	16.5	105
110	BaTiO3 nanocrystal-mediated micro pseudo-electrochemical cells with ultrasound-driven piezotronic enhancement for polymerization. Nano Energy, 2017, 39, 461-469.	16.5	77
111	A Self-Powered Wearable Noninvasive Electronic-Skin for Perspiration Analysis Based on Piezo-Biosensing Unit Matrix of Enzyme/ZnO Nanoarrays. ACS Applied Materials & Interfaces, 2017, 9, 29526-29537.	8.3	122
112	Control of electro-chemical processes using energy harvesting materials and devices. Chemical Society Reviews, 2017, 46, 7757-7786.	40.3	146
113	A flexible self-powered T-ZnO/PVDF/fabric electronic-skin with multi-functions of tactile-perception, atmosphere-detection and self-clean. Nano Energy, 2017, 31, 37-48.	16.5	184
114	In-situ synthesized polypyrrole-cellulose conductive networks for potential-tunable foldable power paper. Nano Energy, 2017, 31, 174-182.	16.5	100
115	Study of the strain effect on the monolayer MoS<inf>2</inf>. , 2017, , .		0
116	Simulation of wavelength selection using ZnO nanowires array. Journal of Applied Physics, 2017, 121, .	2.3	7
117	Progress in Piezoâ€Phototronicâ€Effectâ€Enhanced Lightâ€Emitting Diodes and Pressure Imaging. Advanced Materials, 2016, 28, 1535-1552.	24.3	114
118	In Situ Fabrication of Vertical Multilayered MoS₂/Si Homotype Heterojunction for High-Speed Visible-Near-Infrared Photodetectors. Small, 2016, 12, 1062-1071.	11.2	198
119	Theoretical study on the top- and enclosed-contacted single-layer MoS2 piezotronic transistors. Applied Physics Letters, 2016, 108, 181603.	3.2	11
120	Self-powered electronic-skin for detecting glucose level in body fluid basing on piezo-enzymatic-reaction coupling process. Nano Energy, 2016, 26, 148-156.	16.5	75
121	Density functional studies on wurtzite piezotronic transistors: influence of different semiconductors and metals on piezoelectric charge distribution and Schottky barrier. Nanotechnology, 2016, 27, 205204.	2.7	13
122	Outputting Olfactory Bionic Electric Impulse by PANI/PTFE/PANI Sandwich Nanostructures and their Application as Flexible, Smelling Electronic Skin. Advanced Functional Materials, 2016, 26, 3128-3138.	16.5	104
123	Recent developments related to multifunctional ferroelectric for room-temperature applications. Science China Technological Sciences, 2016, 59, 513-514.	4.0	2
124	Theoretical study on two-dimensional MoS2 piezoelectric nanogenerators. Nano Research, 2016, 9, 800-807.	10.6	86
125	Ballistic transport in single-layer MoS2 piezotronic transistors. Nano Research, 2016, 9, 282-290.	10.6	18
126	Theoretical study of output of piezoelectric nanogenerator based on composite of PZT nanowires and polymers. Journal of Alloys and Compounds, 2016, 675, 306-310.	5.7	18

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127	Piezophototronic effect enhanced luminescence of zinc oxide nanowires. Nano Energy, 2016, 22, 533-538.	16.5	19
128	Lattice Strain Induced Remarkable Enhancement in Piezoelectric Performance of ZnO-Based Flexible Nanogenerators. ACS Applied Materials & Interfaces, 2016, 8, 1381-1387.	8.3	141
129	High thermostable ordered mesoporous SiO2â€“TiO2 coated circulating-bed biofilm reactor for unpredictable photocatalytic and biocatalytic performance. Applied Catalysis B: Environmental, 2016, 180, 521-529.	20.7	114
130	Piezotronic transistors in nonlinear circuit: Model and simulation. Science China Technological Sciences, 2015, 58, 1348-1354.	4.0	3
131	A Streaming Potential/Currentâ€Based Microfluidic Direct Current Generator for Selfâ€Powered Nanosystems. Advanced Materials, 2015, 27, 6482-6487.	24.3	112
132	Flexible, Stretchable and Wearable Multifunctional Sensor Array as Artificial Electronic Skin for Static and Dynamic Strain Mapping. Advanced Electronic Materials, 2015, 1, 1500142.	5.4	236
133	Engineering Nanoscale Stem Cell Niche: Direct Stem Cell Behavior at Cellâ€“Matrix Interface. Advanced Healthcare Materials, 2015, 4, 1900-1914.	8.5	38
134	A tactile sensor translating texture and sliding motion information into electrical pulses. Nanoscale, 2015, 7, 10801-10806.	5.8	15
135	First principle simulations of piezotronic transistors. Nano Energy, 2015, 14, 355-363.	16.5	45
136	Fundamental theories of piezotronics and piezo-phototronics. Nano Energy, 2015, 14, 257-275.	16.5	163
137	Piezo-potential enhanced photocatalytic degradation of organic dye using ZnO nanowires. Nano Energy, 2015, 13, 414-422.	16.5	384
138	Detecting Liquefied Petroleum Gas (LPG) at Room Temperature Using ZnSnO₃/ZnO Nanowire Piezo-Nanogenerator as Self-Powered Gas Sensor. ACS Applied Materials & Interfaces, 2015, 7, 10482-10490.	8.3	68
139	Enhanced Ferroelectric-Nanocrystal-Based Hybrid Photocatalysis by Ultrasonic-Wave-Generated Piezophototronic Effect. Nano Letters, 2015, 15, 2372-2379.	9.5	452
140	Density functional studies on edge-contacted single-layer MoS2 piezotronic transistors. Applied Physics Letters, 2015, 107, .	3.2	20
141	On the mechanism and optimization of triboelectric nanogenerators. Nanotechnology, 2015, 26, 425401.	2.7	4
142	Piezoelectricity and electronic structures of ZnO thin films: A density functional theory study. Surface Science, 2015, 642, 45-50.	2.0	3
143	Self-powered acoustic source locator in underwater environment based on organic film triboelectric nanogenerator. Nano Research, 2015, 8, 765-773.	10.6	86
144	First principle simulations of piezotronic transistors. , 2015, , .		0

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145	A self-powered AC magnetic sensor based on piezoelectric nanogenerator. Nanotechnology, 2014, 25, 455503.	2.7	16
146	Magneticâ€Mechanicalâ€Electricalâ€Optical Coupling Effects in GaNâ€Based LED/Rareâ€Earth Terfenolâ€D Structures. Advanced Materials, 2014, 26, 6767-6772.	24.3	56
147	Biomolecule-adsorption-dependent piezoelectric output of ZnO nanowire nanogenerator and its application as self-powered active biosensor. Biosensors and Bioelectronics, 2014, 57, 269-275.	10.4	76
148	Low frequency wideband nano generators for energy harvesting from natural environment. Nano Energy, 2014, 6, 66-72.	16.5	39
149	Pt/ZnO nanoarray nanogenerator as self-powered active gas sensor with linear ethanol sensing at room temperature. Nanotechnology, 2014, 25, 115502.	2.7	78
150	Flexible Selfâ€Charging Power Cell for Oneâ€Step Energy Conversion and Storage. Advanced Energy Materials, 2014, 4, 1301329.	22.2	94
151	PVDFâ€“PZT nanocomposite film based self-charging power cell. Nanotechnology, 2014, 25, 105401.	2.7	66
152	PVDF mesoporous nanostructures as the piezo-separator for a self-charging power cell. Nano Energy, 2014, 10, 44-52.	16.5	94
153	Room-temperature self-powered ethanol sensing of a Pd/ZnO nanoarray nanogenerator driven by human finger movement. Nanoscale, 2014, 6, 4604-4610.	5.8	118
154	Synthesis of CdS nanorod arrays and their applications in flexible piezo-driven active H₂S sensors. Nanotechnology, 2014, 25, 075501.	2.7	19
155	The conversion of PN-junction influencing the piezoelectric output of a CuO/ZnO nanoarray nanogenerator and its application as a room-temperature self-powered active H₂S sensor. Nanotechnology, 2014, 25, 265501.	2.7	56
156	Theoretical study of electric energy consumption for self-powered chaos signal generator. Science China Technological Sciences, 2014, 57, 1063-1067.	4.0	4
157	Fiber-Based Generator for Wearable Electronics and Mobile Medication. ACS Nano, 2014, 8, 6273-6280.	15.3	558
158	Portable room-temperature self-powered/active H2 sensor driven by human motion through piezoelectric screening effect. Nano Energy, 2014, 8, 34-43.	16.5	72
159	A robust anomaly based change detection method for time-series remote sensing images. IOP Conference Series: Earth and Environmental Science, 2014, 17, 012059.	0.3	1
160	Comparison of characteristic of anti-scaling coating for subsurface safety valve for use in oil and gas industry. , 2014, , .		5
161	Finger typing driven triboelectric nanogenerator and its use for instantaneously lighting up LEDs. Nano Energy, 2013, 2, 491-497.	16.5	267
162	Grundlegende Probleme des empirischen Kulturvergleichs. Ein problemorientierter Ãœberblick Ã¼ber aktuelle Diskussionen. Berliner Journal Fur Soziologie, 2013, 23, 257-286.	1.2	5

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163	One-to-Many Chaotic Synchronization with Application in Wireless Sensor Network. IEEE Communications Letters, 2013, 17, 1782-1785.	4.4	12
164	Piezotronics and piezo-phototronics â€“ From single nanodevices to array of devices and then to integrated functional system. Nano Today, 2013, 8, 619-642.	12.3	146
165	Theoretical study of piezotronic heterojunction. Science China Technological Sciences, 2013, 56, 2615-2621.	4.0	16
166	Modeling the open circuit output voltage of piezoelectric nanogenerator. Science China Technological Sciences, 2013, 56, 2622-2629.	4.0	14
167	A self-powered piezotronic strain sensor based on single ZnSnO3 microbelts. RSC Advances, 2013, 3, 25184.	3.7	59
168	An elastic-spring-substrated nanogenerator as an active sensor for self-powered balance. Energy and Environmental Science, 2013, 6, 1164.	32.2	55
169	Transparent flexible nanogenerator as self-powered sensor for transportation monitoring. Nano Energy, 2013, 2, 75-81.	16.5	172
170	Effect of geometrical rotation on conductance fluctuations in graphene quantum dots. Journal of Physics Condensed Matter, 2013, 25, 105802.	1.9	6
171	A Cu/ZnO Nanowire/Cu Resistive Switching Device. Nano-Micro Letters, 2013, 5, 159-162.	27.9	15
172	Nanoâ€Newton Transverse Force Sensor Using a Vertical GaN Nanowire based on the Piezotronic Effect. Advanced Materials, 2013, 25, 883-888.	24.3	94
173	Surface free-carrier screening effect on the output of a ZnO nanowire nanogenerator and its potential as a self-powered active gas sensor. Nanotechnology, 2013, 24, 225501.	2.7	165
174	Piezo-Phototronic Effect on Electroluminescence Properties of p-Type GaN Thin Films. Nano Letters, 2012, 12, 3851-3856.	9.5	60
175	Lead-Free Nanogenerator Made from Single ZnSnO₃ Microbelt. ACS Nano, 2012, 6, 4335-4340.	15.3	135
176	Nanogenerator as an active sensor for vortex capture and ambient wind-velocity detection. Energy and Environmental Science, 2012, 5, 8528.	32.2	78
177	Hybridizing Energy Conversion and Storage in a Mechanical-to-Electrochemical Process for Self-Charging Power Cell. Nano Letters, 2012, 12, 5048-5054.	9.5	265
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