Chenguo Hu

List of Publications by Year
in descending order

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208 papers	16,957 citations	13068 68 h-index	16605 123 g-index
210 all docs	210 docs citations	210 times ranked	12915 citing authors

#	Article	IF	Citations
1	Self-powered textile for wearable electronics by hybridizing fiber-shaped nanogenerators, solar cells, and supercapacitors. Science Advances, 2016, 2, e1600097.	4.7	705
2	Harvesting Low-Frequency (<5 Hz) Irregular Mechanical Energy: A Possible Killer Application of Triboelectric Nanogenerator. ACS Nano, 2016, 10, 4797-4805.	7.3	606
3	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. Science Robotics, 2018, 3, .	9.9	573
4	Eye motion triggered self-powered mechnosensational communication system using triboelectric nanogenerator. Science Advances, 2017, 3, e1700694.	4.7	491
5	Enhancing Performance of Triboelectric Nanogenerator by Filling High Dielectric Nanoparticles into Sponge PDMS Film. ACS Applied Materials & Interfaces, 2016, 8, 736-744.	4.0	474
6	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. Nano Energy, 2019, 62, 275-281.	8.2	455
7	Triboelectric Nanogenerator for Harvesting Vibration Energy in Full Space and as Selfâ€Powered Acceleration Sensor. Advanced Functional Materials, 2014, 24, 1401-1407.	7.8	381
8	Synthesis of CuO nanostructures and their application for nonenzymatic glucose sensing. Sensors and Actuators B: Chemical, 2010, 144, 220-225.	4.0	375
9	Integrated charge excitation triboelectric nanogenerator. Nature Communications, 2019, 10, 1426.	5.8	375
10	High performance solid state flexible supercapacitor based on molybdenum sulfide hierarchical nanospheres. Journal of Power Sources, 2015, 285, 63-69.	4.0	357
11	All-in-One Shape-Adaptive Self-Charging Power Package for Wearable Electronics. ACS Nano, 2016, 10, 10580-10588.	7.3	290
12	Multifunctional TENG for Blue Energy Scavenging and Selfâ€Powered Windâ€Speed Sensor. Advanced Energy Materials, 2017, 7, 1602397.	10.2	273
13	Porous Fe2O3 nanospheres anchored on activated carbon cloth for high-performance symmetric supercapacitors. Nano Energy, 2019, 57, 379-387.	8.2	251
14	Harvesting Broad Frequency Band Blue Energy by a Triboelectricâ€“Electromagnetic Hybrid Nanogenerator. ACS Nano, 2016, 10, 6526-6534.	7.3	244
15	A Waterâ€Proof Triboelectricâ€“Electromagnetic Hybrid Generator for Energy Harvesting in Harsh Environments. Advanced Energy Materials, 2016, 6, 1501593.	10.2	243
16	Improving energy conversion efficiency for triboelectric nanogenerator with capacitor structure by maximizing surface charge density. Nanoscale, 2015, 7, 1896-1903.	2.8	222
17	Quantifying contact status and the air-breakdown model of charge-excitation triboelectric nanogenerators to maximize charge density. Nature Communications, 2020, 11, 1599.	5.8	216
18	Rotation sensing and gesture control of a robot joint via triboelectric quantization sensor. Nano Energy, 2018, 54, 453-460.	8.2	203

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19	Ultralight Cut-Paper-Based Self-Charging Power Unit for Self-Powered Portable Electronic and Medical Systems. ACS Nano, 2017, 11, 4475-4482.	7.3	201
20	High performance floating self-excited sliding triboelectric nanogenerator for micro mechanical energy harvesting. Nature Communications, 2021, 12, 4689.	5.8	186
21	Growth of ZnO nanotube arrays and nanotube based piezoelectric nanogenerators. Journal of Materials Chemistry, 2009, 19, 9260.	6.7	181
22	UV sensor based on TiO2 nanorod arrays on FTO thin film. Sensors and Actuators B: Chemical, 2011, 156, 114-119.	4.0	179
23	Airflow-Induced Triboelectric Nanogenerator as a Self-Powered Sensor for Detecting Humidity and Airflow Rate. ACS Applied Materials & Interfaces, 2014, 6, 17184-17189.	4.0	176
24	Oblate Spheroidal Triboelectric Nanogenerator for Allâ€Weather Blue Energy Harvesting. Advanced Energy Materials, 2019, 9, 1900801.	10.2	162
25	Ultrahigh Electricity Generation from Low-Frequency Mechanical Energy by Efficient Energy Management. Joule, 2021, 5, 441-455.	11.7	159
26	Boosting output performance of sliding mode triboelectric nanogenerator by charge space-accumulation effect. Nature Communications, 2020, 11, 4277.	5.8	158
27	Switched-capacitor-convertors based on fractal design for output power management of triboelectric nanogenerator. Nature Communications, 2020, 11, 1883.	5.8	154
28	Aligning graphene sheets in PDMS for improving output performance of triboelectric nanogenerator. Carbon, 2017, 111, 569-576.	5.4	153
29	High efficient harvesting of underwater ultrasonic wave energy by triboelectric nanogenerator. Nano Energy, 2017, 38, 101-108.	8.2	146
30	A highly efficient triboelectric negative air ion generator. Nature Sustainability, 2021, 4, 147-153.	11.5	143
31	An Ultrarobust High-Performance Triboelectric Nanogenerator Based on Charge Replenishment. ACS Nano, 2015, 9, 5577-5584.	7.3	135
32	Traditional weaving craft for one-piece self-charging power textile for wearable electronics. Nano Energy, 2018, 50, 536-543.	8.2	135
33	Faradic redox active material of Cu₇S₄ nanowires with a high conductance for flexible solid state supercapacitors. Nanoscale, 2015, 7, 13610-13618.	2.8	134
34	Flexible full-solid state supercapacitors based on zinc sulfide spheres growing on carbon textile with superior charge storage. Journal of Materials Chemistry A, 2016, 4, 667-674.	5.2	133
35	Self-Powered Triboelectric Micro Liquid/Gas Flow Sensor for Microfluidics. ACS Nano, 2016, 10, 8104-8112.	7.3	131
36	Approaching the lithium-manganese oxides' energy storage limit with Li2MnO3 nanorods for high-performance supercapacitor. Nano Energy, 2018, 43, 168-176.	8.2	128

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37	DNA Functionalized Single-Walled Carbon Nanotubes for Electrochemical Detection. Journal of Physical Chemistry B, 2005, 109, 20072-20076.	1.2	127
38	A nanogenerator for harvesting airflow energy and light energy. Journal of Materials Chemistry A, 2014, 2, 2079-2087.	5.2	126
39	Wearable triboelectric sensors for biomedical monitoring and human-machine interface. IScience, 2021, 24, 102027.	1.9	125
40	Hierarchical mesoporous NiFe₂O₄ nanocone forest directly growing on carbon textile for high performance flexible supercapacitors. Journal of Materials Chemistry A, 2016, 4, 8851-8859.	5.2	123
41	Whirligig-inspired triboelectric nanogenerator with ultrahigh specific output as reliable portable instant power supply for personal health monitoring devices. Nano Energy, 2018, 47, 74-80.	8.2	122
42	Flexible and transparent triboelectric nanogenerator based on high performance well-ordered porous PDMS dielectric film. Nano Research, 2016, 9, 3714-3724.	5.8	120
43	Direct growth of CuCo₂S₄ nanosheets on carbon fiber textile with enhanced electrochemical pseudocapacitive properties and electrocatalytic properties towards glucose oxidation. Nanoscale, 2018, 10, 14304-14313.	2.8	119
44	A Triboelectric Generator Based on Checkerâ€Like Interdigital Electrodes with a Sandwiched PET Thin Film for Harvesting Sliding Energy in All Directions. Advanced Energy Materials, 2015, 5, 1400790.	10.2	116
45	Growth of NiMn LDH nanosheet arrays on KCu₇S₄ microwires for hybrid supercapacitors with enhanced electrochemical performance. Journal of Materials Chemistry A, 2017, 5, 20579-20587.	5.2	116
46	In situ Raman study of nickel bicarbonate for high-performance energy storage device. Nano Energy, 2019, 64, 103919.	8.2	112
47	Strain Effects To Optimize Thermoelectric Properties of Doped Bi₂O₂Se via Tranâ€“Blaha Modified Beckeâ€“Johnson Density Functional Theory. Journal of Physical Chemistry C, 2013, 117, 21597-21602.	1.5	111
48	Embedding variable micro-capacitors in polydimethylsiloxane for enhancing output power of triboelectric nanogenerator. Nano Research, 2017, 10, 320-330.	5.8	106
49	An inductor-free auto-power-management design built-in triboelectric nanogenerators. Nano Energy, 2017, 31, 302-310.	8.2	104
50	Harvesting heat energy from hot/cold water with a pyroelectric generator. Journal of Materials Chemistry A, 2014, 2, 11940-11947.	5.2	101
51	Rolling Friction Enhanced Freeâ€Standing Triboelectric Nanogenerators and their Applications in Selfâ€Powered Electrochemical Recovery Systems. Advanced Functional Materials, 2016, 26, 1054-1062.	7.8	101
52	Robust Triboelectric Nanogenerator Achieved by Centrifugal Force Induced Automatic Working Mode Transition. Advanced Energy Materials, 2020, 10, 2000886.	10.2	100
53	High-performance asymmetric Mn(OH)2//Fe2O3 supercapacitor achieved by enhancing and matching respective properties of cathode and anode materials. Nano Energy, 2021, 79, 105410.	8.2	98
54	A full-packaged rolling triboelectric-electromagnetic hybrid nanogenerator for energy harvesting and building up self-powered wireless systems. Nano Energy, 2019, 56, 300-306.	8.2	96

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55	An Ultrarobust and Highâ€Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. Advanced Materials, 2022, 34, e2105882.	11.1	92
56	Hybridized nanogenerator based on honeycomb-like three electrodes for efficient ocean wave energy harvesting. Nano Energy, 2018, 47, 217-223.	8.2	89
57	A Nonencapsulative Pendulumâ€Like Paperâ€“Based Hybrid Nanogenerator for Energy Harvesting. Advanced Energy Materials, 2019, 9, 1901149.	10.2	88
58	Advanced designs for output improvement of triboelectric nanogenerator system. Materials Today, 2021, 45, 93-119.	8.3	86
59	Polydirectional Microvibration Energy Collection for Self-Powered Multifunctional Systems Based on Hybridized Nanogenerators. ACS Nano, 2020, 14, 3328-3336.	7.3	85
60	Enhancing the Output Charge Density of TENG via Building Longitudinal Paths of Electrostatic Charges in the Contacting Layers. ACS Applied Materials & Interfaces, 2018, 10, 2158-2165.	4.0	83
61	Two voltages in contact-separation triboelectric nanogenerator: From asymmetry to symmetry for maximum output. Nano Energy, 2020, 69, 104452.	8.2	83
62	Tracking Pseudocapacitive Contribution to Superior Energy Storage of MnS Nanoparticles Grown on Carbon Textile. ACS Applied Materials & Interfaces, 2016, 8, 24621-24628.	4.0	82
63	Magnetic Array Assisted Triboelectric Nanogenerator Sensor for Real-Time Gesture Interaction. Nano-Micro Letters, 2021, 13, 51.	14.4	82
64	Effective solar absorption and radial microchannels of SnO2 hierarchical structure for high photocatalytic activity. Catalysis Communications, 2011, 14, 32-36.	1.6	77
65	Charge storage in KCu7S4 as redox active material for a flexible all-solid-state supercapacitor. Nano Energy, 2016, 19, 363-372.	8.2	77
66	Composite-hydroxide-mediated approach as a general methodology for synthesizing nanostructures. Journal of Materials Chemistry, 2009, 19, 858.	6.7	75
67	A flutter-effect-based triboelectric nanogenerator for breeze energy collection from arbitrary directions and self-powered wind speed sensor. Nano Research, 2019, 12, 3018-3023.	5.8	74
68	Magnetorheological elastomers enabled high-sensitive self-powered tribo-sensor for magnetic field detection. Nanoscale, 2018, 10, 4745-4752.	2.8	73
69	A Flexible micro-supercapacitor based on a pen ink-carbon fiber thread. Journal of Materials Chemistry A, 2014, 2, 19665-19669.	5.2	69
70	Flexible triboelectric 3D touch pad with unit subdivision structure for effective XY positioning and pressure sensing. Nano Energy, 2020, 76, 105047.	8.2	69
71	Synthesis and characterization of TiO2/CdS coreâ€“shell nanorod arrays and their photoelectrochemical property. Journal of Alloys and Compounds, 2012, 523, 139-145.	2.8	68
72	Nanorod-aggregated flower-like CuO grown on a carbon fiber fabric for a super high sensitive non-enzymatic glucose sensor. Journal of Materials Chemistry B, 2015, 3, 5777-5785.	2.9	68

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73	An Ultra-Durable Windmill-Like Hybrid Nanogenerator for Steady and Efficient Harvesting of Low-Speed Wind Energy. Nano-Micro Letters, 2020, 12, 175.	14.4	68
74	Harvesting Multidirectional Breeze Energy and Selfâ€Powered Intelligent Fire Detection Systems Based on Triboelectric Nanogenerator and Fluidâ€Dynamic Modeling. Advanced Functional Materials, 2021, 31, 2106527.	7.8	68
75	An inverting TENG to realize the AC mode based on the coupling of triboelectrification and air-breakdown. Energy and Environmental Science, 2021, 14, 5395-5405.	15.6	67
76	A self-powered 2D barcode recognition system based on sliding mode triboelectric nanogenerator for personal identification. Nano Energy, 2018, 43, 253-258.	8.2	65
77	Ultra-stability high-voltage triboelectric nanogenerator designed by ternary dielectric triboelectrification with partial soft-contact and non-contact mode. Nano Energy, 2021, 90, 106585.	8.2	65
78	A teeterboard-like hybrid nanogenerator for efficient harvesting of low-frequency ocean wave energy. Nano Energy, 2020, 67, 104205.	8.2	64
79	A fully-packaged and robust hybridized generator for harvesting vertical rotation energy in broad frequency band and building up self-powered wireless systems. Nano Energy, 2017, 33, 508-514.	8.2	63
80	Achieving Remarkable Charge Density via Selfâ€Polarization of Polar Highâ€k Material in a Chargeâ€Excitation Triboelectric Nanogenerator. Advanced Materials, 2022, 34, e2109918.	11.1	63
81	Actuation and sensor integrated self-powered cantilever system based on TENG technology. Nano Energy, 2019, 64, 103920.	8.2	60
82	A strategy to promote efficiency and durability for sliding energy harvesting by designing alternating magnetic stripe arrays in triboelectric nanogenerator. Nano Energy, 2019, 66, 104087.	8.2	60
83	Pt nanoparticles supported on submicrometer-sized TiO2 spheres for effective methanol and ethanol oxidation. Electrochimica Acta, 2013, 105, 130-136.	2.6	59
84	Power cables for triboelectric nanogenerator networks for large-scale blue energy harvesting. Nano Energy, 2020, 75, 104975.	8.2	59
85	Wireless Electric Energy Transmission through Various Isolated Solid Media Based on Triboelectric Nanogenerator. Advanced Energy Materials, 2018, 8, 1703086.	10.2	58
86	Phase-Transition-Dependent Conductivity and Thermoelectric Property of Silver Telluride Nanowires. Journal of Physical Chemistry C, 2008, 112, 16130-16133.	1.5	56
87	Room-temperature ferromagnetic properties of Fe-doped ZnO rod arrays. Solid State Sciences, 2011, 13, 388-393.	1.5	56
88	Tunable Synthesis and Thermoelectric Property of Bi₂S₃ Nanowires. Journal of Physical Chemistry C, 2013, 117, 5515-5520.	1.5	55
89	Synthesis and visible light photocatalytic activity of Î²-AgVO3 nanowires. Solid State Sciences, 2012, 14, 535-539.	1.5	54
90	High energy density hybrid supercapacitor based on 3D mesoporous cuboidal Mn2O3 and MOF-derived porous carbon polyhedrons. Electrochimica Acta, 2018, 282, 1-9.	2.6	54

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91	Visible-light photocatalytic activity of Ag2O coated Bi2WO6 hierarchical microspheres assembled by nanosheets. Applied Surface Science, 2015, 327, 62-67.	3.1	53
92	A novel Î²-MnO 2 micro/nanorod arrays directly grown on flexible carbon fiber fabric for high-performance enzymeless glucose sensing. Electrochimica Acta, 2017, 225, 121-128.	2.6	52
93	Building Ag nanoparticle 3D catalyst via Na2Ti3O7 nanowires for the detection of hydrogen peroxide. Sensors and Actuators B: Chemical, 2010, 144, 289-294.	4.0	51
94	Carbon-modified Na2Ti3O7Â·2H2O nanobelts as redox active materials for high-performance supercapacitor. Nano Energy, 2016, 28, 115-123.	8.2	51
95	Giant performance improvement of triboelectric nanogenerator systems achieved by matched inductor design. Energy and Environmental Science, 2021, 14, 6627-6637.	15.6	51
96	Folded Elastic Strip-Based Triboelectric Nanogenerator for Harvesting Human Motion Energy for Multiple Applications. ACS Applied Materials & Interfaces, 2015, 7, 20469-20476.	4.0	50
97	Enhanced Photocatalytic Activity of Nanoparticle-Aggregated Agâ€“AgX(XÂ=ÂCl, Br)@TiO2 Microspheres Under Visible Light. Nano-Micro Letters, 2017, 9, 49.	14.4	50
98	Optical switches based on nanowires synthesized by molten salt solvent method. Solid State Communications, 2009, 149, 1894-1896.	0.9	48
99	Synthesis and Thermoelectric Property of Cu2â^'xSe Nanowires. Journal of Physical Chemistry C, 2010, 114, 14849-14853.	1.5	48
100	Flexible interdigital-electrodes-based triboelectric generators for harvesting sliding and rotating mechanical energy. Journal of Materials Chemistry A, 2014, 2, 19427-19434.	5.2	48
101	Sodium ions pre-intercalation stabilized tunnel structure of Na2Mn8O16 nanorods for supercapacitors with long cycle life. Chemical Engineering Journal, 2018, 354, 1050-1057.	6.6	48
102	A Mobile and Selfâ€Powered Microâ€Flow Pump Based on Triboelectricity Driven Electroosmosis. Advanced Materials, 2021, 33, e2102765.	11.1	48
103	Gradient SEI layer induced by liquid alloy electrolyte additive for high rate lithium metal battery. Nano Energy, 2021, 88, 106237.	8.2	48
104	Ultra-fine CuO Nanoparticles Embedded in Three-dimensional Graphene Network Nano-structure for High-performance Flexible Supercapacitors. Electrochimica Acta, 2017, 234, 63-70.	2.6	46
105	Synthesis and photocatalytic property of ZnSe flowerlike hierarchical structure. Applied Surface Science, 2011, 257, 10679-10685.	3.1	44
106	A high-performance flexible solid-state supercapacitor based on Li-ion intercalation into tunnel-structure iron sulfide. Electrochimica Acta, 2016, 219, 742-750.	2.6	44
107	Recent progresses on paperâ€based triboelectric nanogenerator for portable <scp>selfâ€powered</scp> sensing systems. EcoMat, 2020, 2, e12060.	6.8	44
108	KCu7S4 nanowires and the Mn/KCu7S4 nanostructure for solid-state supercapacitors. Journal of Materials Chemistry A, 2013, 1, 15530.	5.2	43

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109	A Highâ€Performance Bidirectional Direct Current TENG by Triboelectrification of Two Dielectrics and Local Corona Discharge. Advanced Energy Materials, 2022, 12, .	10.2	43
110	Direct growth of MnOOH nanorod arrays on a carbon cloth for high-performance non-enzymatic hydrogen peroxide sensing. Analytica Chimica Acta, 2016, 913, 128-136.	2.6	42
111	A rapid-response humidity sensor based on BaNbO3 nanocrystals. Sensors and Actuators B: Chemical, 2009, 136, 128-132.	4.0	41
112	Bionic Ultraâ€Sensitive Selfâ€Powered Electromechanical Sensor for Muscleâ€Triggered Communication Application. Advanced Science, 2021, 8, e2101020.	5.6	41
113	Synthesis and thermoelectric properties of PbTe nanorods and microcubes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 163, 57-61.	1.7	40
114	Spiral-interdigital-electrode-based multifunctional device: Dual-functional triboelectric generator and dual-functional self-powered sensor. Nano Energy, 2015, 12, 626-635.	8.2	39
115	Precisely quantified catalyst based on in situ growth of Cu 2 O nanoparticles on a graphene 3D network for highly sensitive glucose sensor. Sensors and Actuators B: Chemical, 2017, 250, 333-341.	4.0	39
116	Deep Learning Enabled Neck Motion Detection Using a Triboelectric Nanogenerator. ACS Nano, 2022, 16, 9359-9367.	7.3	39
117	MnO2@KCu7S4 NWs hybrid compositions for high-power all-solid-state supercapacitor. Journal of Power Sources, 2015, 274, 477-482.	4.0	38
118	Rational design of photoelectron-trapped/accumulated site and transportation path for superior photocatalyst. Nano Energy, 2017, 38, 271-280.	8.2	38
119	High-efficiency, stable and non-chemically doped grapheneâ€“Si solar cells through interface engineering and PMMA antireflection. RSC Advances, 2016, 6, 10175-10179.	1.7	36
120	Harvesting ambient mechanical energy by multiple mode triboelectric nanogenerator with charge excitation for self-powered freight train monitoring. Nano Energy, 2021, 90, 106543.	8.2	35
121	Miura folding based charge-excitation triboelectric nanogenerator for portable power supply. Nano Research, 2021, 14, 4204-4210.	5.8	34
122	Interface Static Friction Enabled Ultraâ€Durable and High Output Sliding Mode Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	7.8	34
123	Anti-Overturning Fully Symmetrical Triboelectric Nanogenerator Based on an Elliptic Cylindrical Structure for All-Weather Blue Energy Harvesting. Nano-Micro Letters, 2022, 14, 124.	14.4	33
124	Synthesis and photocatalytic property of lead molybdate dendrites with exposed (0 0 1) facet. Applied Surface Science, 2012, 258, 5858-5862.	3.1	32
125	Double-induced-mode integrated triboelectric nanogenerator based on spring steel to maximize space utilization. Nano Research, 2016, 9, 3355-3363.	5.8	32
126	A fast composite-hydroxide-mediated approach for synthesis of 2D-LiCoO2 for high performance asymmetric supercapacitor. Electrochimica Acta, 2020, 331, 135426.	2.6	32

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127	Triboelectric nanogenerators based on elastic electrodes. Nanoscale, 2020, 12, 20118-20130.	2.8	32
128	Optical porous hollow-boxes assembled by SrSO4/TiO2/Pt nanoparticles for high performance of photocatalytic H2 evolution. Nano Energy, 2019, 59, 129-137.	8.2	31
129	Titania nanotube arrays for light sensor and UV photometer. Sensors and Actuators B: Chemical, 2010, 144, 203-207.	4.0	30
130	Preparation and Improved Photocatalytic Activity of WO3Â·0.33H2O Nanonetworks. Catalysis Letters, 2012, 142, 637-645.	1.4	30
131	Super-high photocatalytic activity of Fe 2 O 3 nanoparticles anchored on Bi 2 O 2 CO 3 nanosheets with exposed {0 0 1} active facets. Applied Surface Science, 2014, 316, 93-101.	3.1	29
132	Capturing Dissipation Charge in Charge Space Accumulation Area for Enhancing Output Performance of Sliding Triboelectric Nanogenerator. Advanced Energy Materials, 2022, 12, .	10.2	29
133	Radiative/Nonradiative Recombination Affected by Defects and Electronâ€“Phone Coupling in CdWO₄ Nanorods. Journal of Physical Chemistry C, 2016, 120, 12218-12225.	1.5	28
134	Improving and Quantifying Surface Charge Density via Charge Injection Enabled by Air Breakdown. Advanced Functional Materials, 2022, 32, .	7.8	28
135	An Ultrafast Selfâ€Polarization Effect in Barium Titanate Filled Poly(Vinylidene Fluoride) Composite Film Enabled by Selfâ€Charge Excitation Triboelectric Nanogenerator. Advanced Functional Materials, 2022, 32, .	7.8	28
136	ZnS nanoparticles self-assembled from ultrafine particles and their highly photocatalytic activity. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1071-1075.	1.3	27
137	Three-dimensional CdS nanostructure for photoelectrochemical sensor. Sensors and Actuators B: Chemical, 2013, 182, 461-466.	4.0	27
138	CdS/CdSe core/shell nanowall arrays for high sensitive photoelectrochemical sensors. Journal of Alloys and Compounds, 2015, 630, 94-99.	2.8	27
139	Room-temperature ferromagnetic properties of Ni-doped ZnO rod arrays. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2086-2090.	1.3	26
140	Honeycomb-like three electrodes based triboelectric generator for harvesting energy in full space and as a self-powered vibration alertor. Nano Energy, 2015, 15, 766-775.	8.2	26
141	Promoting power density by cleaving LiCoO2 into nano-flake structure for high performance supercapacitor. Nanoscale, 2017, 9, 5509-5516.	2.8	26
142	High-performance aqueous asymmetric supercapacitor based on hierarchical wheatear-like LiNi0.5Mn1.5O4 cathode and porous Fe2O3 anode. Materials Today Physics, 2021, 17, 100337.	2.9	26
143	Raspite PbWO4 nanobelts: synthesis and properties. CrystEngComm, 2010, 12, 3277.	1.3	25
144	Different proportions of C/KCu7S4 hybrid structure for high-performance supercapacitors. Journal of Power Sources, 2014, 263, 175-180.	4.0	25

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145	Electrochemical investigations of cobalt-free perovskite cathode material for intermediate temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 2017, 42, 10416-10422.	3.8	25
146	Triboelectric nanogenerator based on magnetically induced retractable spring steel tapes for efficient energy harvesting of large amplitude motion. Nano Research, 2018, 11, 633-641.	5.8	25
147	Î²-NiMoO₄ nanowire arrays grown on carbon cloth for 3D solid asymmetry supercapacitors. RSC Advances, 2015, 5, 107098-107104.	1.7	24
148	Newton's cradle motion-like triboelectric nanogenerator to enhance energy recycle efficiency by utilizing elastic deformation. Journal of Materials Chemistry A, 2015, 3, 21133-21139.	5.2	23
149	Room-Temperature Magnetism of Ceria Nanocubes by Inductively Transferring Electrons to Ce Atoms from Nearby Oxygen Vacancy. Nano-Micro Letters, 2016, 8, 13-19.	14.4	23
150	Ti-Doped Tunnel-Type Na₄Mn₉O₁₈ Nanoparticles as Novel Anode Materials for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 28900-28908.	4.0	23
151	Rational Electron Transmission Structure in an Ag₂O/TiO₂(anatase-B) System for Effective Enhancement of Visible Light Photocatalytic Activity. Journal of Physical Chemistry C, 2019, 123, 1817-1827.	1.5	23
152	Triboelectric and Electromagnetic Hybrid Nanogenerator Based on a Crankshaft Piston System as a Multifunctional Energy Harvesting Device. Advanced Materials Technologies, 2019, 4, 1800278.	3.0	23
153	BaTiO3 nanocubes: Size-selective formation and structure analysis. Materials Letters, 2008, 62, 235-238.	1.3	22
154	Optical properties of ZnTe nanorods synthesized via a facile low-temperature solvothermal route. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 171, 11-15.	1.7	22
155	Synthesis of SnO2 Nanostructures and Their Application for Hydrogen Evolution Reaction. Catalysis Letters, 2012, 142, 809-815.	1.4	22
156	Enhanced output-power of nanogenerator by modifying PDMS film with lateral ZnO nanotubes and Ag nanowires. RSC Advances, 2015, 5, 32566-32571.	1.7	22
157	A facile strategy of in-situ anchoring of Co3O4 on N doped carbon cloth for an ultrahigh electrochemical performance. Nano Research, 2021, 14, 2410.	5.8	22
158	Constructing high output performance triboelectric nanogenerator via V-shape stack and self-charge excitation. Nano Energy, 2022, 96, 107068.	8.2	22
159	Ultrahigh Performance Triboelectric Nanogenerator Enabled by Charge Transmission in Interfacial Lubrication and Potential Decentralization Design. Research, 2022, 2022, .	2.8	22
160	Reshaping the tips of ZnO nanowires by pulsed laser irradiation. Nano Research, 2012, 5, 412-420.	5.8	20
161	Notepad-like Triboelectric Generator for Efficiently Harvesting Low-Velocity Motion Energy by Interconversion between Kinetic Energy and Elastic Potential Energy. ACS Applied Materials & Interfaces, 2015, 7, 1275-1283.	4.0	20
162	Low Li ion diffusion barrier on low-crystalline FeOOH nanosheets and high performance of energy storage. Nano Research, 2020, 13, 759-767.	5.8	20

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163	Large-scale synthesis and photoluminescence of cobalt tungstate nanowires. Physical Review B, 2013, 87, .	1.1	19
164	Rational design of CuO nanostructures grown on carbon fiber fabrics with enhanced electrochemical performance for flexible supercapacitor. Journal of Materials Science, 2018, 53, 739-748.	1.7	19
165	An activated carbon cloth anode obtained with a fast molten salt method for high-performance supercapacitors. Journal of Alloys and Compounds, 2020, 838, 155695.	2.8	19
166	Introducing kalium into copper sulfide for the enhancement of thermoelectric properties. Journal of Materials Chemistry A, 2013, 1, 13721.	5.2	18
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