List of Publications by Year in descending order

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236 papers	39,635 citations	1163 111 h-index	2617 194 g-index
239 all docs	239 docs citations	239 times ranked	20503 citing authors

#	Article	IF	Citations
1	Progress in triboelectric nanogenerators as a new energy technology and self-powered sensors. Energy and Environmental Science, 2015, 8, 2250-2282.	15.6	1,723
2	Micro-cable structured textile for simultaneously harvesting solar and mechanical energy. Nature Energy, 2016, 1, .	19.8	879
3	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. Nature Nanotechnology, 2019, 14, 705-711.	15.6	773
4	A Leavening Strategy to Prepare Reduced Graphene Oxide Foams. Advanced Materials, 2012, 24, 4144-4150.	11.1	765
5	Reviving Vibration Energy Harvesting and Self-Powered Sensing by a Triboelectric Nanogenerator. Joule, 2017, 1, 480-521.	11.7	748
6	Radial-arrayed rotary electrification for high performance triboelectric generator. Nature Communications, 2014, 5, 3426.	5.8	734
7	HarmonicâEResonatorâEBased Triboelectric Nanogenerator as a Sustainable Power Source and a SelfâEPowered Active Vibration Sensor. Advanced Materials, 2013, 25, 6094-6099.	11.1	672
8	Human Skin Based Triboelectric Nanogenerators for Harvesting Biomechanical Energy and as Self-Powered Active Tactile Sensor System. ACS Nano, 2013, 7, 9213-9222.	7.3	667
9	Smart Textiles for Electricity Generation. Chemical Reviews, 2020, 120, 3668-3720.	23.0	644
10	Triboelectric nanogenerators as a new energy technology: From fundamentals, devices, to applications. Nano Energy, 2015, 14, 126-138.	8.2	574
11	Integrated Multilayered Triboelectric Nanogenerator for Harvesting Biomechanical Energy from Human Motions. ACS Nano, 2013, 7, 3713-3719.	7.3	538
12	Triboelectric Nanogenerator for Harvesting Wind Energy and as Self-Powered Wind Vector Sensor System. ACS Nano, 2013, 7, 9461-9468.	7.3	524
13	Single-Electrode-Based Sliding Triboelectric Nanogenerator for Self-Powered Displacement Vector Sensor System. ACS Nano, 2013, 7, 7342-7351.	7.3	523
14	Sign-to-speech translation using machine-learning-assisted stretchable sensor arrays. Nature Electronics, 2020, 3, 571-578.	13.1	513
15	Networks of Triboelectric Nanogenerators for Harvesting Water Wave Energy: A Potential Approach toward Blue Energy. ACS Nano, 2015, 9, 3324-3331.	7.3	509
16	EardrumâEInspired Active Sensors for SelfâEPowered Cardiovascular System Characterization and ThroatâEAttached AntiâEInterference Voice Recognition. Advanced Materials, 2015, 27, 1316-1326.	11.1	487
17	Unconventional supercapacitors from nanocarbon-based electrode materials to device configurations. Chemical Society Reviews, 2016, 45, 4340-4363.	18.7	480
18	Harvesting Water Wave Energy by Asymmetric Screening of Electrostatic Charges on a Nanostructured Hydrophobic Thin-Film Surface. ACS Nano, 2014, 8, 6031-6037.	7.3	471

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19	Harvesting Energy from the Natural Vibration of Human Walking. ACS Nano, 2013, 7, 11317-11324.	7.3	448
20	Linear-Grating Triboelectric Generator Based on Sliding Electrification. Nano Letters, 2013, 13, 2282-2289.	4.5	442
21	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. ACS Nano, 2015, 9, 4236-4243.	7.3	419
22	A Shapeâ€Adaptive Thinâ€Filmâ€Based Approach for 50% Highâ€Efficiency Energy Generation Through Microâ€Grating Sliding Electrification. Advanced Materials, 2014, 26, 3788-3796.	11.1	415
23	Self-Powered, Ultrasensitive, Flexible Tactile Sensors Based on Contact Electrification. Nano Letters, 2014, 14, 3208-3213.	4.5	405
24	Triboelectric Nanogenerator Enabled Body Sensor Network for Self-Powered Human Heart-Rate Monitoring. ACS Nano, 2017, 11, 8830-8837.	7.3	400
25	Triboelectricâ€“Pyroelectricâ€“Piezoelectric Hybrid Cell for Highâ€Efficiency Energyâ€Harvesting and Selfâ€Powered Sensing. Advanced Materials, 2015, 27, 2340-2347.	11.1	397
26	Triboelectrification-Based Organic Film Nanogenerator for Acoustic Energy Harvesting and Self-Powered Active Acoustic Sensing. ACS Nano, 2014, 8, 2649-2657.	7.3	390
27	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
28	Nanoporous polyethylene microfibres for large-scale radiative cooling fabric. Nature Sustainability, 2018, 1, 105-112.	11.5	370
29	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. Advanced Materials, 2018, 30, e1802152.	11.1	362
30	Largeâ€Scale and Washable Smart Textiles Based on Triboelectric Nanogenerator Arrays for Selfâ€Powered Sleeping Monitoring. Advanced Functional Materials, 2018, 28, 1704112.	7.8	339
31	Triboelectric nanogenerator built inside shoe insole for harvesting walking energy. Nano Energy, 2013, 2, 856-862.	8.2	337
32	Lawn Structured Triboelectric Nanogenerators for Scavenging Sweeping Wind Energy on Rooftops. Advanced Materials, 2016, 28, 1650-1656.	11.1	334
33	High-Performance Multifunctional Graphene Yarns: Toward Wearable All-Carbon Energy Storage Textiles. ACS Nano, 2014, 8, 2456-2466.	7.3	331
34	A Selfâ€Powered Triboelectric Nanosensor for Mercury Ion Detection. Angewandte Chemie - International Edition, 2013, 52, 5065-5069.	7.2	323
35	Stretchableâ€Rubberâ€Based Triboelectric Nanogenerator and Its Application as Selfâ€Powered Body Motion Sensors. Advanced Functional Materials, 2015, 25, 3688-3696.	7.8	320
36	Electronic Textiles for Wearable Point-of-Care Systems. Chemical Reviews, 2022, 122, 3259-3291.	23.0	316

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37	A Selfâ€Healing Integrated Allâ€inâ€One Zincâ€Ion Battery. Angewandte Chemie - International Edition, 2019, 58, 4313-4317.	7.2	311
38	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. Matter, 2020, 2, 896-907.	5.0	310
39	A Flexible Nanostructured Paper of a Reduced Graphene Oxideâ€“Sulfur Composite for Highâ€Performance Lithiumâ€“Sulfur Batteries with Unconventional Configurations. Advanced Materials, 2016, 28, 9629-9636.	11.1	308
40	Smart textiles for personalized healthcare. Nature Electronics, 2022, 5, 142-156.	13.1	307
41	Flexible Weaving Constructed Selfâ€Powered Pressure Sensor Enabling Continuous Diagnosis of Cardiovascular Disease and Measurement of Cuffless Blood Pressure. Advanced Functional Materials, 2019, 29, 1806388.	7.8	297
42	Power-generating shoe insole based on triboelectric nanogenerators for self-powered consumer electronics. Nano Energy, 2013, 2, 688-692.	8.2	292
43	Textile strain sensors: a review of the fabrication technologies, performance evaluation and applications. Materials Horizons, 2019, 6, 219-249.	6.4	289
44	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. Advanced Energy Materials, 2014, 4, 1301322.	10.2	280
45	Warming up human body by nanoporous metallized polyethylene textile. Nature Communications, 2017, 8, 496.	5.8	280
46	Rotating-Disk-Based Hybridized Electromagneticâ€“Triboelectric Nanogenerator for Sustainably Powering Wireless Traffic Volume Sensors. ACS Nano, 2016, 10, 6241-6247.	7.3	277
47	Alveolus-Inspired Active Membrane Sensors for Self-Powered Wearable Chemical Sensing and Breath Analysis. ACS Nano, 2020, 14, 6067-6075.	7.3	271
48	Hybrid triboelectric nanogenerator for harvesting water wave energy and as a self-powered distress signal emitter. Nano Energy, 2014, 9, 186-195.	8.2	268
49	Advanced nanostructured carbon-based materials for rechargeable lithium-sulfur batteries. Carbon, 2019, 141, 400-416.	5.4	268
50	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. Advanced Functional Materials, 2014, 24, 4090-4096.	7.8	263
51	Nanogenerators for smart cities in the era of 5G and Internet of Things. Joule, 2021, 5, 1391-1431.	11.7	261
52	Blow-driven triboelectric nanogenerator as an active alcohol breath analyzer. Nano Energy, 2015, 16, 38-46.	8.2	255
53	A Wearable Allâ€Solid Photovoltaic Textile. Advanced Materials, 2016, 28, 263-269.	11.1	254
54	Wearable Pressure Sensors for Pulse Wave Monitoring. Advanced Materials, 2022, 34, e2109357.	11.1	253

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55	Triboelectric nanogenerator as self-powered active sensors for detecting liquid/gaseous water/ethanol. Nano Energy, 2013, 2, 693-701.	8.2	250
56	Membraneâ€Based Selfâ€Powered Triboelectric Sensors for Pressure Change Detection and Its Uses in Security Surveillance and Healthcare Monitoring. Advanced Functional Materials, 2014, 24, 5807-5813.	7.8	250
57	Cylindrical Rotating Triboelectric Nanogenerator. ACS Nano, 2013, 7, 6361-6366.	7.3	249
58	Shape Memory Polymers for Body Motion Energy Harvesting and Selfâ€Powered Mechanosensing. Advanced Materials, 2018, 30, 1705195.	11.1	249
59	Personalized Keystroke Dynamics for Self-Powered Humanâ€“Machine Interfacing. ACS Nano, 2015, 9, 105-116.	7.3	239
60	Single-layered ultra-soft washable smart textiles for all-around ballistocardiograph, respiration, and posture monitoring during sleep. Biosensors and Bioelectronics, 2020, 155, 112064.	5.3	233
61	Manipulating Relative Permittivity for High-Performance Wearable Triboelectric Nanogenerators. Nano Letters, 2020, 20, 6404-6411.	4.5	231
62	A chemically self-charging aqueous zinc-ion battery. Nature Communications, 2020, 11, 2199.	5.8	221
63	Highly Compressible and Allâ€Solidâ€State Supercapacitors Based on Nanostructured Composite Sponge. Advanced Materials, 2015, 27, 6002-6008.	11.1	217
64	Selfâ€Powered Respiration Monitoring Enabled By a Triboelectric Nanogenerator. Advanced Materials, 2021, 33, e2101262.	11.1	217
65	Harvesting vibration energy by a triple-cantilever based triboelectric nanogenerator. Nano Research, 2013, 6, 880-886.	5.8	209
66	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
67	Wearable triboelectric nanogenerators for biomechanical energy harvesting. Nano Energy, 2020, 77, 105303.	8.2	206
68	Triboelectrificationâ€Enabled Selfâ€Powered Detection and Removal of Heavy Metal Ions in Wastewater. Advanced Materials, 2016, 28, 2983-2991.	11.1	204
69	Photo-Rechargeable Fabrics as Sustainable and Robust Power Sources for Wearable Bioelectronics. Matter, 2020, 2, 1260-1269.	5.0	204
70	A wireless energy transmission enabled wearable active acetone biosensor for non-invasive prediabetes diagnosis. Nano Energy, 2020, 74, 104941.	8.2	193
71	Î²-cyclodextrin enhanced triboelectrification for self-powered phenol detection and electrochemical degradation. Energy and Environmental Science, 2015, 8, 887-896.	15.6	192
72	Leveraging triboelectric nanogenerators for bioengineering. Matter, 2021, 4, 845-887.	5.0	192

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73	Smart textiles for personalized thermoregulation. Chemical Society Reviews, 2021, 50, 9357-9374.	18.7	184
74	Self-Powered Safety Helmet Based on Hybridized Nanogenerator for Emergency. ACS Nano, 2016, 10, 7874-7881.	7.3	179
75	Triboelectric Nanogenerators. Green Energy and Technology, 2016, , .	0.4	176
76	Tuning Cu/Cu₂O Interfaces for the Reduction of Carbon Dioxide to Methanol in Aqueous Solutions. Angewandte Chemie - International Edition, 2018, 57, 15415-15419.	7.2	175
77	Giant magnetoelastic effect in soft systems for bioelectronics. Nature Materials, 2021, 20, 1670-1676.	13.3	175
78	Enhanced Performance of a ZnO Nanowireâ€Based Selfâ€Powered Glucose Sensor by Piezotronic Effect. Advanced Functional Materials, 2013, 23, 5868-5874.	7.8	174
79	A Hybridized Power Panel to Simultaneously Generate Electricity from Sunlight, Raindrops, and Wind around the Clock. Advanced Energy Materials, 2015, 5, 1501152.	10.2	174
80	A linear-to-rotary hybrid nanogenerator for high-performance wearable biomechanical energy harvesting. Nano Energy, 2020, 67, 104235.	8.2	172
81	Muscle Fibers Inspired Highâ€Performance Piezoelectric Textiles for Wearable Physiological Monitoring. Advanced Functional Materials, 2021, 31, 2010962.	7.8	169
82	Ambulatory Cardiovascular Monitoring Via a Machineâ€Learningâ€Assisted Textile Triboelectric Sensor. Advanced Materials, 2021, 33, e2104178.	11.1	167
83	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Lowâ€Grade Thermal Energy. Advanced Materials, 2017, 29, 1605652.	11.1	166
84	A hybrid energy cell for self-powered water splitting. Energy and Environmental Science, 2013, 6, 2429.	15.6	162
85	Triboelectrification Based Motion Sensor for Human-Machine Interfacing. ACS Applied Materials & Interfaces, 2014, 6, 7479-7484.	4.0	162
86	Advances in triboelectric nanogenerators for biomedical sensing. Biosensors and Bioelectronics, 2021, 171, 112714.	5.3	159
87	Stretchable Lithiumâ€Ion Batteries Enabled by Deviceâ€Scaled Wavy Structure and Elasticâ€Sticky Separator. Advanced Energy Materials, 2017, 7, 1701076.	10.2	158
88	Thermogalvanic Hydrogel for Synchronous Evaporative Cooling and Low-Grade Heat Energy Harvesting. Nano Letters, 2020, 20, 3791-3797.	4.5	154
89	3D-Printed Ultra-Robust Surface-Doped Porous Silicone Sensors for Wearable Biomonitoring. ACS Nano, 2020, 14, 1520-1532.	7.3	151
90	Piezoelectric fiber composites with polydopamine interfacial layer for self-powered wearable biomonitoring. Nano Energy, 2021, 89, 106321.	8.2	151

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91	Promoting Energy Efficiency via a Selfâ€Adaptive Evaporative Cooling Hydrogel. Advanced Materials, 2020, 32, e1907307.	11.1	151
92	Progress in triboelectric nanogenerators as self-powered smart sensors. Journal of Materials Research, 2017, 32, 1628-1646.	1.2	150
93	Soft fibers with magnetoelasticity for wearable electronics. Nature Communications, 2021, 12, 6755.	5.8	150
94	In-situ phase transition of WO3 boosting electron and hydrogen transfer for enhancing hydrogen evolution on Pt. Nano Energy, 2020, 71, 104653.	8.2	149
95	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. Science Advances, 2021, 7, eabl3742.	4.7	145
96	Piezoelectric nanogenerators for personalized healthcare. Chemical Society Reviews, 2022, 51, 3380-3435.	18.7	145
97	Triboelectric Sensor for Self-Powered Tracking of Object Motion inside Tubing. ACS Nano, 2014, 8, 3843-3850.	7.3	142
98	A 3D Hydroxylated MXene/Carbon Nanotubes Composite as a Scaffold for Dendriteâ€Free Sodiumâ€Metal Electrodes. Angewandte Chemie - International Edition, 2020, 59, 16705-16711.	7.2	138
99	Case-Encapsulated Triboelectric Nanogenerator for Harvesting Energy from Reciprocating Sliding Motion. ACS Nano, 2014, 8, 3836-3842.	7.3	137
100	Epidermis-Inspired Ultrathin 3D Cellular Sensor Array for Self-Powered Biomedical Monitoring. ACS Applied Materials & Interfaces, 2018, 10, 41070-41075.	4.0	136
101	Recent progress on lithium-ion batteries with high electrochemical performance. Science China Chemistry, 2019, 62, 533-548.	4.2	136
102	An Ultrarobust High-Performance Triboelectric Nanogenerator Based on Charge Replenishment. ACS Nano, 2015, 9, 5577-5584.	7.3	135
103	High-efficiency ramie fiber degumming and self-powered degumming wastewater treatment using triboelectric nanogenerator. Nano Energy, 2016, 22, 548-557.	8.2	132
104	Stretchable Lithium Metal Anode with Improved Mechanical and Electrochemical Cycling Stability. Joule, 2018, 2, 1857-1865.	11.7	132
105	Engineering Materials at the Nanoscale for Triboelectric Nanogenerators. Cell Reports Physical Science, 2020, 1, 100142.	2.8	130
106	Highly fluorescent copper nanoclusters for sensing and bioimaging. Biosensors and Bioelectronics, 2020, 154, 112078.	5.3	130
107	Simultaneously harvesting mechanical and chemical energies by a hybrid cell for self-powered biosensors and personal electronics. Energy and Environmental Science, 2013, 6, 1744.	15.6	129
108	Bioinspired Graphene Oxide Membranes with pH-Responsive Nanochannels for High-Performance Nanofiltration. ACS Nano, 2021, 15, 13178-13187.	7.3	128

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109	A Universal Method to Engineer Metal Oxideâ€“Metalâ€“Carbon Interface for Highly Efficient Oxygen Reduction. ACS Nano, 2018, 12, 3042-3051.	7.3	125
110	Electrospinning nanofibers and nanomembranes for oil/water separation. Journal of Materials Chemistry A, 2021, 9, 21659-21684.	5.2	121
111	A Selfâ€Powered Angle Measurement Sensor Based on Triboelectric Nanogenerator. Advanced Functional Materials, 2015, 25, 2166-2174.	7.8	119
112	One-step synthesis of hierarchically porous carbons for high-performance electric double layer supercapacitors. Journal of Power Sources, 2016, 315, 120-126.	4.0	118
113	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. ACS Nano, 2015, 9, 12334-12343.	7.3	111
114	An approaching-theoretical-capacity anode material for aqueous battery: Hollow hexagonal prism Bi2O3 assembled by nanoparticles. Energy Storage Materials, 2020, 28, 82-90.	9.5	109
115	Smart Insole for Robust Wearable Biomechanical Energy Harvesting in Harsh Environments. ACS Nano, 2020, 14, 14126-14133.	7.3	107
116	Largeâ€Area Reduced Graphene Oxide Composite Films for Flexible Asymmetric Sandwich and Microsized Supercapacitors. Advanced Functional Materials, 2018, 28, 1707247.	7.8	103
117	Wearable Triboelectric Nanogenerators for Therapeutics. Trends in Chemistry, 2021, 3, 279-290.	4.4	100
118	Phosphorusâ€Based Materials as the Anode for Sodiumâ€Ion Batteries. Small Methods, 2017, 1, 1700216.	4.6	98
119	Advanced Wearable Thermocells for Body Heat Harvesting. Advanced Energy Materials, 2020, 10, 2002539.	10.2	97
120	Textile Triboelectric Nanogenerators for Wearable Pulse Wave Monitoring. Trends in Biotechnology, 2021, 39, 1078-1092.	4.9	96
121	Highly stretchable van der Waals thin films for adaptable and breathable electronic membranes. Science, 2022, 375, 852-859.	6.0	96
122	A self-powered solar-blind photodetector with largeV_{oc}enhancing performance based on the PEDOT:PSS/Ga₂O₃organicâ€“inorganic hybrid heterojunction. Journal of Materials Chemistry C, 2020, 8, 1292-1300.	2.7	94
123	Advances in Nanostructures for Highâ€Performance Triboelectric Nanogenerators. Advanced Materials Technologies, 2021, 6, 2000916.	3.0	94
124	Discovering giant magnetoelasticity in soft matter for electronic textiles. Matter, 2021, 4, 3725-3740.	5.0	94
125	Triboelectric Nanogenerators for Therapeutic Electrical Stimulation. Advanced Materials, 2021, 33, e2007502.	11.1	92
126	Carbon Nanotube Reinforced Strong Carbon Matrix Composites. ACS Nano, 2020, 14, 9282-9319.	7.3	89

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127	Ternary Electrification Layered Architecture for High-Performance Triboelectric Nanogenerators. ACS Nano, 2020, 14, 9050-9058.	7.3	88
128	Simultaneous Biomechanical and Biochemical Monitoring for Self-Powered Breath Analysis. ACS Applied Materials & Interfaces, 2022, 14, 7301-7310.	4.0	86
129	Foldable All-Solid-State Supercapacitors Integrated with Photodetectors. Advanced Functional Materials, 2017, 27, 1604639.	7.8	83
130	A portable triboelectric spirometer for wireless pulmonary function monitoring. Biosensors and Bioelectronics, 2021, 187, 113329.	5.3	83
131	Flexible electrical stimulation device with Chitosan-VaselineÂ® dressing accelerates wound healing in diabetes. Bioactive Materials, 2021, 6, 230-243.	8.6	81
132	Advances in self-powered chemical sensingviaa triboelectric nanogenerator. Nanoscale, 2021, 13, 2065-2081.	2.8	81
133	A hand-driven portable triboelectric nanogenerator using whirligig spinning dynamics. Nano Energy, 2021, 83, 105845.	8.2	81
134	Recent Advances on Dualâ€Band Electrochromic Materials and Devices. Advanced Functional Materials, 2022, 32, .	7.8	81
135	Multistaged discharge constructing heterostructure with enhanced solid-solution behavior for long-life lithium-oxygen batteries. Nature Communications, 2019, 10, 5810.	5.8	80
136	Two-dimensional rotary triboelectric nanogenerator as a portable and wearable power source for electronics. Nano Energy, 2015, 17, 10-16.	8.2	78
137	Textiles for learning tactile interactions. Nature Electronics, 2021, 4, 175-176.	13.1	76
138	A non-printed integrated-circuit textile for wireless theranostics. Nature Communications, 2021, 12, 4876.	5.8	76
139	Advances in graphene oxide membranes for water treatment. Nano Research, 2022, 15, 6636-6654.	5.8	76
140	Wearable Biosensors for Non-Invasive Sweat Diagnostics. Biosensors, 2021, 11, 245.	2.3	75
141	A Deepâ€Learningâ€Assisted Onâ€Mask Sensor Network for Adaptive Respiratory Monitoring. Advanced Materials, 2022, 34, e2200252.	11.1	72
142	An ultrathin robust polymer membrane for wearable solid-state electrochemical energy storage. Nano Energy, 2020, 76, 105179.	8.2	70
143	A Personalized Acoustic Interface for Wearable Humanâ€“Machine Interaction. Advanced Functional Materials, 2022, 32, 2109430.	7.8	69
144	Tailoring carbon nanomaterials via a molecular scissor. Nano Today, 2021, 36, 101033.	6.2	67

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145	Triboelectric Nanogenerator Enabled Smart Shoes for Wearable Electricity Generation. Research, 2020, 2020, 7158953.	2.8	67
146	Single Atoms on Graphene for Energy Storage and Conversion. Small Methods, 2019, 3, 1800443.	4.6	64
147	Tuning infrared plasmon resonances in doped metal-oxide nanocrystals through cation-exchange reactions. Nature Communications, 2019, 10, 1394.	5.8	64
148	Wearable triboelectric nanogenerators for heart rate monitoring. Chemical Communications, 2021, 57, 5871-5879.	2.2	64
149	Triboelectric Nanogenerators for Selfâ€Powered Wound Healing. Advanced Healthcare Materials, 2021, 10, e2100975.	3.9	64
150	Kirigamiâ€Inspired Pressure Sensors for Wearable Dynamic Cardiovascular Monitoring. Advanced Materials, 2022, 34, .	11.1	63
151	MXeneâ€Sponge Based Highâ€Performance Piezoresistive Sensor for Wearable Biomonitoring and Realâ€Time Tactile Sensing. Small Methods, 2022, 6, e2101051.	4.6	61
152	Ultrafast and Selective Nanofiltration Enabled by Graphene Oxide Membranes with Unzipped Carbon Nanotube Networks. ACS Applied Materials & Interfaces, 2022, 14, 1850-1860.	4.0	60
153	Giant Magnetoelastic Effect Enabled Stretchable Sensor for Self-Powered Biomonitoring. ACS Nano, 2022, 16, 6013-6022.	7.3	59
154	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. Advanced Materials Technologies, 2019, 4, 1800167.	3.0	57
155	Smart polyethylene textiles for radiative and evaporative cooling. Joule, 2021, 5, 752-754.	11.7	56
156	Self-powered environmental monitoring via a triboelectric nanogenerator. Nano Energy, 2022, 98, 107282.	8.2	56
157	A fluorinated polymer sponge with superhydrophobicity for high-performance biomechanical energy harvesting. Nano Energy, 2021, 85, 106021.	8.2	55
158	Textile triboelectric nanogenerators for self-powered biomonitoring. Journal of Materials Chemistry A, 2021, 9, 19149-19178.	5.2	55
159	Broadband and three-dimensional vibration energy harvesting by a non-linear magnetoelectric generator. Applied Physics Letters, 2016, 109, .	1.5	54
160	Advances in Triboelectric Nanogenerators for Selfâ€Powered Regenerative Medicine. Advanced Functional Materials, 2021, 31, 2105169.	7.8	54
161	Recent Progress in Triboelectric Nanogenerators as a Renewable and Sustainable Power Source. Journal of Nanomaterials, 2016, 2016, 1-24.	1.5	53
162	Machine-Learning-Aided Self-Powered Assistive Physical Therapy Devices. ACS Nano, 2021, 15, 18633-18646.	7.3	53

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163	A dual-electrolyte based air-breathing regenerative microfluidic fuel cell with 1.76 V open-circuit-voltage and 0.74 V water-splitting voltage. Nano Energy, 2016, 27, 619-626.	8.2	52
164	Single-atom catalysts boost nitrogen electroreduction reaction. Materials Today, 2020, 38, 99-113.	8.3	52
165	Low temperature dependence of triboelectric effect for energy harvesting and self-powered active sensing. Applied Physics Letters, 2015, 106, .	1.5	51
166	pH-Sensitive Poly(Î²-amino ester)s Nanocarriers Facilitate the Inhibition of Drug Resistance in Breast Cancer Cells. Nanomaterials, 2018, 8, 952.	1.9	51
167	Eco-Friendly Synthesis of Self-Supported N-Doped Sb₂S₃-Carbon Fibers with High Atom Utilization and Zero Discharge for Commercial Full Lithium-Ion Batteries. ACS Applied Energy Materials, 2020, 3, 6897-6906.	2.5	51
168	Airâ€Stable Conductive Polymer Ink for Printed Wearable Microâ€Supercapacitors. Small, 2021, 17, e2100956.	5.2	51
169	Deep Learning Assisted Body Area Triboelectric Hydrogel Sensor Network for Infant Care. Advanced Functional Materials, 2022, 32, .	7.8	51
170	Bioinspired Nanocomposites with Selfâ€Adaptive Stress Dispersion for Superâ€Foldable Electrodes. Advanced Science, 2022, 9, e2103714.	5.6	49
171	Machine-Learning-Assisted Recognition on Bioinspired Soft Sensor Arrays. ACS Nano, 2022, 16, 6734-6743.	7.3	49
172	In Situ Direct Method To Massively Prepare Hydrophilic Porous Carbide-Derived Carbons for High-Performance Supercapacitors. ACS Applied Energy Materials, 2018, 1, 3544-3553.	2.5	45
173	Leverage Surface Chemistry for High-Performance Triboelectric Nanogenerators. Frontiers in Chemistry, 2020, 8, 577327.	1.8	45
174	High-strength graphene composite films by molecular level couplings for flexible supercapacitors with high volumetric capacitance. Journal of Materials Chemistry A, 2017, 5, 15008-15016.	5.2	44
175	Multifunctional meta-tribomaterial nanogenerators for energy harvesting and active sensing. Nano Energy, 2021, 86, 106074.	8.2	43
176	Wearable Ultrahigh Current Power Source Based on Giant Magnetoelastic Effect in Soft Elastomer System. ACS Nano, 2021, 15, 20582-20589.	7.3	43
177	Graphene Oxide Nanofiltration Membrane Based on Three-Dimensional Size-Controllable Metalâ€“Organic Frameworks for Water Treatment. ACS Applied Nano Materials, 2022, 5, 5196-5207.	2.4	42
178	Recent Advances in Graphene Oxide Membranes for Nanofiltration. ACS Applied Nano Materials, 2022, 5, 3121-3145.	2.4	42
179	Reduced graphene oxideâ€“polyethylene oxide hybrid films for toluene sensing at room temperature. RSC Advances, 2016, 6, 97840-97847.	1.7	41
180	Triboelectric Nanogenerator: Vertical Contact-Separation Mode. Green Energy and Technology, 2016, , 23-47.	0.4	40

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181	Triboelectric Nanogenerators for Self-Powered Breath Monitoring. ACS Applied Energy Materials, 2022, 5, 3952-3965.	2.5	39
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