

# Baodong Chen

## List of Publications by Year in descending order

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53  
papers

2,903  
citations

185998

28  
h-index

189595

50  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2442  
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, .	9.9	573
2	Water wave energy harvesting and self-powered liquid-surface fluctuation sensing based on bionic-jellyfish triboelectric nanogenerator. <i>Materials Today</i> , 2018, 21, 88-97.	8.3	192
3	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. <i>Nano Energy</i> , 2018, 45, 380-389.	8.2	178
4	Giant Voltage Enhancement via Triboelectric Charge Supplement Channel for Self-Powered Electroadhesion. <i>ACS Nano</i> , 2018, 12, 10262-10271.	7.3	109
5	Self-Powered Insole Plantar Pressure Mapping System. <i>Advanced Functional Materials</i> , 2018, 28, 1801606.	7.8	104
6	A Self-Powered Angle Sensor at Nanoradian-Resolution for Robotic Arms and Personalized Medicare. <i>Advanced Materials</i> , 2020, 32, e2001466.	11.1	93
7	Au nanocomposite enhanced electret film for triboelectric nanogenerator. <i>Nano Research</i> , 2018, 11, 3096-3105.	5.8	89
8	Harsh-Environmental-Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. <i>Advanced Energy Materials</i> , 2018, 8, 1801898.	10.2	82
9	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2017, 11, 1894-1900.	7.3	79
10	Smart Floor with Integrated Triboelectric Nanogenerator As Energy Harvester and Motion Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26126-26133.	4.0	78
11	Open-book-like triboelectric nanogenerators based on low-frequency roll-swing oscillators for wave energy harvesting. <i>Nanoscale</i> , 2019, 11, 7199-7208.	2.8	78
12	A multi-dielectric-layered triboelectric nanogenerator as energized by corona discharge. <i>Nanoscale</i> , 2017, 9, 9668-9675.	2.8	73
13	Advanced 3D printing-based triboelectric nanogenerator for mechanical energy harvesting and self-powered sensing. <i>Materials Today</i> , 2021, 50, 224-238.	8.3	73
14	Piezo-phototronic Effect Enhanced Photodetector Based on $\text{CH}_3\text{NH}_3\text{PbI}_3$ Single Crystals. <i>ACS Nano</i> , 2018, 12, 10501-10508.	7.3	67
15	Ultrafine Capillary-Tube Triboelectric Nanogenerator as Active Sensor for Microliquid Biological and Chemical Sensing. <i>Advanced Materials Technologies</i> , 2018, 3, 1700229.	3.0	64
16	Piezotronic Effect on Rashba Spin-Orbit Coupling in a ZnO/P3HT Nanowire Array Structure. <i>ACS Nano</i> , 2018, 12, 1811-1820.	7.3	61
17	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 48, 292-300.	8.2	60
18	Wind-driven self-powered wireless environmental sensors for Internet of Things at long distance. <i>Nano Energy</i> , 2020, 73, 104819.	8.2	58

#	ARTICLE	IF	CITATIONS
19	Real-Time and Online Lubricating Oil Condition Monitoring Enabled by Triboelectric Nanogenerator. ACS Nano, 2021, 15, 11869-11879.	7.3	56
20	A Triboelectric Nanogenerator as a Self-Powered Sensor for a Soft-Rigid Hybrid Actuator. Advanced Materials Technologies, 2019, 4, 1900337.	3.0	53
21	Self-powered versatile shoes based on hybrid nanogenerators. Nano Research, 2018, 11, 3972-3978.	5.8	45
22	Toward a New Era of Sustainable Energy: Advanced Triboelectric Nanogenerator for Harvesting High Entropy Energy. Small, 2022, 18, e2107034.	5.2	45
23	Integrative square-grid triboelectric nanogenerator as a vibrational energy harvester and impulsive force sensor. Nano Research, 2018, 11, 1157-1164.	5.8	44
24	Bioinspired Triboelectric Soft Robot Driven by Mechanical Energy. Advanced Functional Materials, 2021, 31, 2104770.	7.8	36
25	Hourglass Triboelectric Nanogenerator as a "Direct Current" Power Source. Advanced Energy Materials, 2017, 7, 1700644.	10.2	34
26	Seawater Degradable Triboelectric Nanogenerators for Blue Energy. Advanced Materials Technologies, 2020, 5, 2000455.	3.0	32
27	Directly Visualizing Tactile Perception and Ultrasensitive Tactile Sensors by Utilizing Body-Enhanced Induction of Ambient Electromagnetic Waves. Advanced Functional Materials, 2018, 28, 1805277.	7.8	30
28	Bladeless-Turbine-Based Triboelectric Nanogenerator for Fluid Energy Harvesting and Self-Powered Fluid Gauge. Advanced Materials Technologies, 2019, 4, 1800560.	3.0	30
29	Piezo-phototronic effect enhanced polarization-sensitive photodetectors based on cation-mixed organic-inorganic perovskite nanowires. Materials Today, 2020, 37, 56-63.	8.3	28
30	Radial-Grating Pendulum-Structured Triboelectric Nanogenerator for Energy Harvesting and Tilting-Angle Sensing. Advanced Materials Technologies, 2018, 3, 1700251.	3.0	26
31	Irregular Wind Energy Harvesting by a Turbine Vent Triboelectric Nanogenerator and Its Application in a Self-Powered On-Site Industrial Monitoring System. ACS Applied Materials & Interfaces, 2021, 13, 55136-55144.	4.0	26
32	Preparation of SrZrO <sub>3</sub> Thermal Barrier Coating by Solution Precursor Plasma Spray. Journal of Thermal Spray Technology, 2017, 26, 371-377.	1.6	25
33	Self-powered ammonia synthesis under ambient conditions via N <sub>2</sub> discharge driven by Tesla turbine triboelectric nanogenerators. Microsystems and Nanoengineering, 2021, 7, 7.	3.4	24
34	Characteristics of triboelectrification on dielectric surfaces contacted with a liquid metal in different gases. Applied Physics Letters, 2017, 110, .	1.5	22
35	Piezo-phototronic and pyro-phototronic effects to enhance Cu(In, Ga)Se <sub>2</sub> thin film solar cells. Nano Research, 2018, 11, 3877-3885.	5.8	22
36	A turbine disk-type triboelectric nanogenerator for wind energy harvesting and self-powered wildfire pre-warning. Materials Today Energy, 2021, 22, 100867.	2.5	19

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37	Flexible Filmâ€Dischargeâ€Switch Assisted Universal Power Management System for the Four Operation Modes of Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
38	Barycenter Selfâ€Adapting Triboelectric Nanogenerator for Sea Water Wave Highâ€Entropy Energy Harvesting and Selfâ€Powered Forecasting in Marine Meteorology. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
39	Self-Rebound Cambered Triboelectric Nanogenerator Array for Self-Powered Sensing in Kinematic Analytics. <i>ACS Nano</i> , 2022, 16, 1271-1279.	7.3	18
40	A Selfâ€Powered Early Warning Glove with Integrated Elasticâ€Arched Triboelectric Nanogenerator and Flexible Printed Circuit for Realâ€Time Safety Protection. <i>Advanced Materials Technologies</i> , 2022, 7, 2100787.	3.0	17
41	Flexible Alternatingâ€Current Electroluminescence Plunging to Below 1ÂHz Frequency by Triboelectrification. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
42	Aerodynamicsâ€Based Triboelectric Nanogenerator for Enhancing Multiâ€Operating Robustness via Mode Automatic Switching. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
43	Effects of cerium on as-cast microstructure of AZ91 magnesium alloy under different solidification rates. <i>Journal of Rare Earths</i> , 2016, 34, 736-741.	2.5	16
44	Study on microstructure and strengthening mechanism of AZ91-Y magnesium alloy. <i>Materials Research Express</i> , 2018, 5, 036501.	0.8	16
45	A Selfâ€Powered Portable Power Bank Based on a Hybridized Nanogenerator. <i>Advanced Materials Technologies</i> , 2018, 3, 1700209.	3.0	15
46	Particle Transportâ€Based Triboelectric Nanogenerator for Selfâ€Powered Massâ€Flow Detection and Explosion Early Warning. <i>Advanced Materials Technologies</i> , 2018, 3, 1800009.	3.0	13
47	Electro-blown spinning driven by cylindrical rotating triboelectric nanogenerator and its applications for fabricating nanofibers. <i>Applied Materials Today</i> , 2020, 19, 100631.	2.3	10
48	3D-printed bearing structural triboelectric nanogenerator for intelligent vehicle monitoring. <i>Cell Reports Physical Science</i> , 2021, 2, 100666.	2.8	10
49	A Triboelectric Closedâ€Loop Sensing System for Authenticity Identification of Paperâ€Based Artworks. <i>Advanced Materials Technologies</i> , 2020, 5, 2000194.	3.0	5
50	Double-Network Hydrogel for Stretchable Triboelectric Nanogenerator and Integrated Electroluminescent Skin with Self-Powered Rapid Visual Sensing. <i>Electronics (Switzerland)</i> , 2022, 11, 1928.	1.8	3
51	The Research of Fabricating Two-Dimensional Photorefractive Photonic Lattice within Linear-defect. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2009, 29, 3452-3457.	0.2	0
52	Experiment Research for the Influence of Polarization Direction of Low-power Near-infrared Light on the Light-induced Refractive Index Change. <i>Guangzi Xuebao/Acta Photonica Sinica</i> , 2010, 39, 403-408.	0.1	0
53	Action of Indium Doping on Near Infrared Photorefractive Properties of Fe:LiNbO3Crystal. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2012, 32, 0119001.	0.2	0