

Baodong Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4620264/publications.pdf>

Version: 2024-02-01

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 Self-Powered Early Warning Glove with Integrated Elastic-Arched Triboelectric Nanogenerator and Flexible Printed Circuit for Real-Time Safety Protection. <i>Advanced Materials Technologies</i> , 2022, 7, 2100787.	3.0	17
2	Flexible Alternating-Current Electroluminescence Plunging to Below 1ÂHz Frequency by Triboelectrification. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	17
3	Flexible Film-Discharge-Switch Assisted Universal Power Management System for the Four Operation Modes of Triboelectric Nanogenerators. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
4	Self-Rebound Cambered Triboelectric Nanogenerator Array for Self-Powered Sensing in Kinematic Analytics. <i>ACS Nano</i> , 2022, 16, 1271-1279.	7.3	18
5	Toward a New Era of Sustainable Energy: Advanced Triboelectric Nanogenerator for Harvesting High Entropy Energy. <i>Small</i> , 2022, 18, e2107034.	5.2	45
6	Barycenter Self-Adapting Triboelectric Nanogenerator for Sea Water Wave High-Entropy Energy Harvesting and Self-Powered Forecasting in Marine Meteorology. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	19
7	Aerodynamics-Based Triboelectric Nanogenerator for Enhancing Multi-Operating Robustness via Mode Automatic Switching. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
8	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
9	Self-powered ammonia synthesis under ambient conditions via N ₂ discharge driven by Tesla turbine triboelectric nanogenerators. <i>Microsystems and Nanoengineering</i> , 2021, 7, 7.	3.4	24
10	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
11	Real-Time and Online Lubricating Oil Condition Monitoring Enabled by Triboelectric Nanogenerator. <i>ACS Nano</i> , 2021, 15, 11869-11879.	7.3	56
12	Bioinspired Triboelectric Soft Robot Driven by Mechanical Energy. <i>Advanced Functional Materials</i> , 2021, 31, 2104770.	7.8	36
13	A turbine disk-type triboelectric nanogenerator for wind energy harvesting and self-powered wildfire pre-warning. <i>Materials Today Energy</i> , 2021, 22, 100867.	2.5	19
14	3D-printed bearing structural triboelectric nanogenerator for intelligent vehicle monitoring. <i>Cell Reports Physical Science</i> , 2021, 2, 100666.	2.8	10
15	Irregular Wind Energy Harvesting by a Turbine Vent Triboelectric Nanogenerator and Its Application in a Self-Powered On-Site Industrial Monitoring System. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55136-55144.	4.0	26
16	Seawater Degradable Triboelectric Nanogenerators for Blue Energy. <i>Advanced Materials Technologies</i> , 2020, 5, 2000455.	3.0	32
17	A Triboelectric Closed-Loop Sensing System for Authenticity Identification of Paper-Based Artworks. <i>Advanced Materials Technologies</i> , 2020, 5, 2000194.	3.0	5
18	Piezo-phototronic effect enhanced polarization-sensitive photodetectors based on cation-mixed organic-inorganic perovskite nanowires. <i>Materials Today</i> , 2020, 37, 56-63.	8.3	28

#	ARTICLE	IF	CITATIONS
19	A Self-Powered Angle Sensor at Nanoradian-Resolution for Robotic Arms and Personalized Medicare. <i>Advanced Materials</i> , 2020, 32, e2001466.	11.1	93
20	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
21	Wind-driven self-powered wireless environmental sensors for Internet of Things at long distance. <i>Nano Energy</i> , 2020, 73, 104819.	8.2	58
22	A Triboelectric Nanogenerator as a Self-Powered Sensor for a Soft-Rigid Hybrid Actuator. <i>Advanced Materials Technologies</i> , 2019, 4, 1900337.	3.0	53
23	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
24	Bladeless-Turbine-Based Triboelectric Nanogenerator for Fluid Energy Harvesting and Self-Powered Fluid Gauge. <i>Advanced Materials Technologies</i> , 2019, 4, 1800560.	3.0	30
25	Self-powered versatile shoes based on hybrid nanogenerators. <i>Nano Research</i> , 2018, 11, 3972-3978.	5.8	45
26	Study on microstructure and strengthening mechanism of AZ91-Y magnesium alloy. <i>Materials Research Express</i> , 2018, 5, 036501.	0.8	16
27	A Self-Powered Portable Power Bank Based on a Hybridized Nanogenerator. <i>Advanced Materials Technologies</i> , 2018, 3, 1700209.	3.0	15
28	Radial-Grating Pendulum-Structured Triboelectric Nanogenerator for Energy Harvesting and Tilting-Angle Sensing. <i>Advanced Materials Technologies</i> , 2018, 3, 1700251.	3.0	26
29	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
30	Three-dimensional ultraflexible triboelectric nanogenerator made by 3D printing. <i>Nano Energy</i> , 2018, 45, 380-389.	8.2	178
31	Piezo-phototronic and pyro-phototronic effects to enhance Cu(In, Ga)Se ₂ thin film solar cells. <i>Nano Research</i> , 2018, 11, 3877-3885.	5.8	22
32	Particle Transport-Based Triboelectric Nanogenerator for Self-Powered Mass-Flow Detection and Explosion Early Warning. <i>Advanced Materials Technologies</i> , 2018, 3, 1800009.	3.0	13
33	Studying about applied force and the output performance of sliding-mode triboelectric nanogenerators. <i>Nano Energy</i> , 2018, 48, 292-300.	8.2	60
34	Integrative square-grid triboelectric nanogenerator as a vibrational energy harvester and impulsive force sensor. <i>Nano Research</i> , 2018, 11, 1157-1164.	5.8	44
35	Au nanocomposite enhanced electret film for triboelectric nanogenerator. <i>Nano Research</i> , 2018, 11, 3096-3105.	5.8	89
36	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

#	ARTICLE	IF	CITATIONS
37	Ultrafine Capillaryâ€”Tube Triboelectric Nanogenerator as Active Sensor for Microliquid Biological and Chemical Sensing. <i>Advanced Materials Technologies</i> , 2018, 3, 1700229.	3.0	64
38	Directly Visualizing Tactile Perception and Ultrasensitive Tactile Sensors by Utilizing Bodyâ€”Enhanced Induction of Ambient Electromagnetic Waves. <i>Advanced Functional Materials</i> , 2018, 28, 1805277.	7.8	30
39	Piezo-phototronic Effect Enhanced Photodetector Based on CH ₃ NH ₃ PbI ₃ Single Crystals. <i>ACS Nano</i> , 2018, 12, 10501-10508.	7.3	67
40	Giant Voltage Enhancement <i>via</i> Triboelectric Charge Supplement Channel for Self-Powered Electroadhesion. <i>ACS Nano</i> , 2018, 12, 10262-10271.	7.3	109
41	Harshâ€”Environmentalâ€”Resistant Triboelectric Nanogenerator and Its Applications in Autodrive Safety Warning. <i>Advanced Energy Materials</i> , 2018, 8, 1801898.	10.2	82
42	Self â€”Powered Insole Plantar Pressure Mapping System. <i>Advanced Functional Materials</i> , 2018, 28, 1801606.	7.8	104
43	A highly sensitive, self-powered triboelectric auditory sensor for social robotics and hearing aids. <i>Science Robotics</i> , 2018, 3, .	9.9	573
44	Preparation of SrZrO ₃ Thermal Barrier Coating by Solution Precursor Plasma Spray. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 371-377.	1.6	25
45	Enhancing the Efficiency of Silicon-Based Solar Cells by the Piezo-Phototronic Effect. <i>ACS Nano</i> , 2017, 11, 1894-1900.	7.3	79
46	Characteristics of triboelectrification on dielectric surfaces contacted with a liquid metal in different gases. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	22
47	Hourglass Triboelectric Nanogenerator as a â€”Direct Currentâ€”Power Source. <i>Advanced Energy Materials</i> , 2017, 7, 1700644.	10.2	34
48	A multi-dielectric-layered triboelectric nanogenerator as energized by corona discharge. <i>Nanoscale</i> , 2017, 9, 9668-9675.	2.8	73
49	Smart Floor with Integrated Triboelectric Nanogenerator As Energy Harvester and Motion Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26126-26133.	4.0	78
50	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
51	Action of Indium Doping on Near Infrared Photorefractive Properties of Fe:LiNbO ₃ Crystal. <i>Guangxue Xuebao/Acta Optica Sinica</i> , 2012, 32, 0119001.	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	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