

Jin Yang

List of Publications by Year in descending order

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112
papers

9,800
citations

60835

43
h-index

36816

97
g-index

114
all docs

114
docs citations

114
times ranked

8251
citing authors

#	ARTICLE	IF	CITATIONS
1	Networks of Triboelectric Nanogenerators for Harvesting Water Wave Energy: A Potential Approach toward Blue Energy. <i>ACS Nano</i> , 2015, 9, 3324-3331.	15.3	528
2	Eardrum-Inspired Active Sensors for Self-Powered Cardiovascular System Characterization and Throat-Attached Anti-Interference Voice Recognition. <i>Advanced Materials</i> , 2015, 27, 1316-1326.	24.3	510
3	Harvesting Energy from the Natural Vibration of Human Walking. <i>ACS Nano</i> , 2013, 7, 11317-11324.	15.3	463
4	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. <i>ACS Nano</i> , 2015, 9, 4236-4243.	15.3	447
5	Triboelectric Nanogenerator Enabled Body Sensor Network for Self-Powered Human Heart-Rate Monitoring. <i>ACS Nano</i> , 2017, 11, 8830-8837.	15.3	418
6	Triboelectrification-Based Organic Film Nanogenerator for Acoustic Energy Harvesting and Self-Powered Active Acoustic Sensing. <i>ACS Nano</i> , 2014, 8, 2649-2657.	15.3	409
7	Large-Scale and Washable Smart Textiles Based on Triboelectric Nanogenerator Arrays for Self-Powered Sleeping Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1704112.	16.5	351
8	Machine-knitted washable sensor array textile for precise epidermal physiological signal monitoring. <i>Science Advances</i> , 2020, 6, eaay2840.	10.9	347
9	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907.	10.2	337
10	Flexible Weaving Constructed Self-Powered Pressure Sensor Enabling Continuous Diagnosis of Cardiovascular Disease and Measurement of Cuffless Blood Pressure. <i>Advanced Functional Materials</i> , 2019, 29, 1806388.	16.5	314
11	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014, 4, 1301322.	22.2	297
12	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. <i>Nature Communications</i> , 2015, 6, 8401.	13.2	287
13	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. <i>Advanced Functional Materials</i> , 2014, 24, 4090-4096.	16.5	270
14	A Wearable All-Solid Photovoltaic Textile. <i>Advanced Materials</i> , 2016, 28, 263-269.	24.3	262
15	Super-robust and frequency-multiplied triboelectric nanogenerator for efficient harvesting water and wind energy. <i>Nano Energy</i> , 2019, 64, 103908.	16.5	260
16	Single-layered ultra-soft washable smart textiles for all-around ballistocardiograph, respiration, and posture monitoring during sleep. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112064.	10.4	255
17	Membrane-Based Self-Powered Triboelectric Sensors for Pressure Change Detection and Its Uses in Security Surveillance and Healthcare Monitoring. <i>Advanced Functional Materials</i> , 2014, 24, 5807-5813.	16.5	253
18	Personalized Keystroke Dynamics for Self-Powered Human-Machine Interfacing. <i>ACS Nano</i> , 2015, 9, 105-116.	15.3	246

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19	Triboelectric Nanogenerator Built on Suspended 3D Spiral Structure as Vibration and Positioning Sensor and Wave Energy Harvester. <i>ACS Nano</i> , 2013, 7, 10424-10432.	15.3	206
20	β -cyclodextrin enhanced triboelectrification for self-powered phenol detection and electrochemical degradation. <i>Energy and Environmental Science</i> , 2015, 8, 887-896.	32.2	195
21	A Triboelectric Nanogenerator-Based Smart Insole for Multifunctional Gait Monitoring. <i>Advanced Materials Technologies</i> , 2019, 4, 1800360.	6.2	191
22	Triboelectrification Based Motion Sensor for Human-Machine Interfacing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7479-7484.	8.3	165
23	Self-Powered Trajectory, Velocity, and Acceleration Tracking of a Moving Object/Body using a Triboelectric Sensor. <i>Advanced Functional Materials</i> , 2014, 24, 7488-7494.	16.5	165
24	Modeling, characterization and fabrication of vibration energy harvester using Terfenol-D/PZT/Terfenol-D composite transducer. <i>Sensors and Actuators A: Physical</i> , 2009, 156, 350-358.	4.2	138
25	Rationally designed rotation triboelectric nanogenerators with much extended lifetime and durability. <i>Nano Energy</i> , 2020, 68, 104378.	16.5	120
26	Controllable Graphene Wrinkle for a High-Performance Flexible Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20448-20458.	8.3	120
27	Wireless self-powered sensor networks driven by triboelectric nanogenerator for in-situ real time survey of environmental monitoring. <i>Nano Energy</i> , 2018, 53, 501-507.	16.5	117
28	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. <i>ACS Nano</i> , 2015, 9, 12334-12343.	15.3	116
29	Smart Insole for Robust Wearable Biomechanical Energy Harvesting in Harsh Environments. <i>ACS Nano</i> , 2020, 14, 14126-14133.	15.3	116
30	Smart textile triboelectric nanogenerators: Current status and perspectives. <i>MRS Bulletin</i> , 2021, 46, 512-521.	4.2	116
31	Triboelectric vibration sensor for a human-machine interface built on ubiquitous surfaces. <i>Nano Energy</i> , 2019, 59, 689-696.	16.5	106
32	Elastic-Connection and Soft-Contact Triboelectric Nanogenerator with Superior Durability and Efficiency. <i>Advanced Functional Materials</i> , 2021, 31, 2105237.	16.5	87
33	Leak location in gas pipelines using cross-time-frequency spectrum of leakage-induced acoustic vibrations. <i>Journal of Sound and Vibration</i> , 2014, 333, 3889-3903.	4.1	70
34	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. <i>Advanced Materials Technologies</i> , 2019, 4, 1800167.	6.2	62
35	Recent Progress in Triboelectric Nanogenerators as a Renewable and Sustainable Power Source. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-24.	2.8	59
36	An all-textile triboelectric sensor for wearable teleoperated human-machine interaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26804-26811.	10.5	58

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37	Multilayered Electrode-Based Triboelectric Nanogenerators with Managed Output Voltage and Multifold Enhanced Charge Transport. <i>Advanced Energy Materials</i> , 2015, 5, 1401452.	22.2	56
38	Broadband and three-dimensional vibration energy harvesting by a non-linear magnetoelectric generator. <i>Applied Physics Letters</i> , 2016, 109, .	3.2	54
39	Surface Engineering of Graphene Composite Transparent Electrodes for High-Performance Flexible Triboelectric Nanogenerators and Self-Powered Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36017-36025.	8.3	53
40	A two-dimensional broadband vibration energy harvester using magnetoelectric transducer. <i>Applied Physics Letters</i> , 2013, 103, .	3.2	50
41	Flexible Timbo-Like Triboelectric Nanogenerator as Self-Powered Force and Bend Sensor for Wireless and Distributed Landslide Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1800144.	6.2	50
42	Leak location using blind system identification in water distribution pipelines. <i>Journal of Sound and Vibration</i> , 2008, 310, 134-148.	4.1	48
43	An arc-shaped piezoelectric generator for multi-directional wind energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 173-179.	4.2	48
44	Design and analysis of a 2D broadband vibration energy harvester for wireless sensors. <i>Sensors and Actuators A: Physical</i> , 2014, 205, 47-52.	4.2	45
45	A Comprehensive Review of Portosystemic Collaterals in Cirrhosis: Historical Aspects, Anatomy, and Classifications. <i>International Journal of Hepatology</i> , 2016, 2016, 1-15.	1.1	44
46	Eco-friendly in-situ gap generation of no-spacer triboelectric nanogenerator for monitoring cardiovascular activities. <i>Nano Energy</i> , 2021, 90, 106580.	16.5	42
47	A self-powered and high-frequency vibration sensor with layer-powder-layer structure for structural health monitoring. <i>Nano Energy</i> , 2021, 90, 106366.	16.5	41
48	An airtight-cavity-structural triboelectric nanogenerator-based insole for high performance biomechanical energy harvesting. <i>Nanoscale</i> , 2019, 11, 6802-6809.	5.8	39
49	Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Finger-Touching. <i>Advanced Functional Materials</i> , 2021, 31, 2102378.	16.5	37
50	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. <i>Nano Energy</i> , 2015, 12, 278-286.	16.5	36
51	Leak detection and location for gas pipelines using acoustic emission sensors. , 2012, , .		35
52	Detecting and Evaluating the Signals of Wirelessly Interrogational Passive SAW Resonator Sensors. <i>IEEE Sensors Journal</i> , 2004, 4, 828-836.	4.8	34
53	Investigation of magnetostrictive/piezoelectric multilayer composite with a giant zero-biased magnetoelectric effect. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 413-421.	2.4	34
54	Ultrasensitive Fingertip-Contacted Pressure Sensors To Enable Continuous Measurement of Epidermal Pulse Waves on Ubiquitous Object Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46399-46407.	8.3	29

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55	Piezoelectric energy harvester scavenging AC magnetic field energy from electric power lines. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 59-68.	4.2	27
56	A magnetolectric, broadband vibration-powered generator for intelligent sensor systems. <i>Sensors and Actuators A: Physical</i> , 2011, 168, 358-364.	4.2	26
57	Three-dimensional piezoelectric vibration energy harvester using spiral-shaped beam with triple operating frequencies. <i>Review of Scientific Instruments</i> , 2016, 87, 015003.	1.4	25
58	Self-Contained Wireless Hall Current Sensor Applied for Two-Wire Zip-Cords. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	2.2	25
59	Magnetolectric Energy Harvesting from Vibrations of Multiple Frequencies. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1631-1639.	2.6	24
60	A vibration energy harvester using magnet/piezoelectric composite transducer. <i>Journal of Applied Physics</i> , 2014, 115, .	2.3	24
61	A passive wireless triboelectric sensor via a surface acoustic wave resonator (SAWR). <i>Nano Energy</i> , 2020, 78, 105307.	16.5	23
62	Capacitive Sensors with Hybrid Dielectric Structures and High Sensitivity over a Wide Pressure Range for Monitoring Biosignals. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 6217-6227.	8.3	23
63	Knitting integral conformal all-textile strain sensor with commercial apparel characteristics for smart textiles. <i>Applied Materials Today</i> , 2022, 27, 101508.	4.5	22
64	Study on an improved acoustic leak detection method for water distribution systems. <i>Urban Water Journal</i> , 2013, 10, 71-84.	2.1	21
65	Determination of acoustic speed for improving leak detection and location in gas pipelines. <i>Review of Scientific Instruments</i> , 2014, 85, 024901.	1.4	18
66	Enhanced Broadband Vibration Energy Harvesting Using a Multimodal Nonlinear Magnetolectric Converter. <i>Journal of Electronic Materials</i> , 2016, 45, 3554-3561.	2.2	18
67	Graded Microstructured Flexible Pressure Sensors with High Sensitivity and an Ultrabroad Pressure Range for Epidermal Pulse Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55747-55755.	8.3	15
68	A magnetolectric-based broadband vibration energy harvester for powering wireless sensors. <i>Science China Technological Sciences</i> , 2011, 54, 1419-1427.	4.0	14
69	Design and testing of piezoelectric energy harvester for powering wireless sensors of electric line monitoring system. <i>Journal of Applied Physics</i> , 2012, 111, 07E510.	2.3	14
70	Multi-directional electromagnetic vibration energy harvester using circular Halbach array. <i>AIP Advances</i> , 2017, 7, .	1.3	13
71	Dynamic magnetostrictive properties of magnetization-graded ferromagnetic material and application in magnetolectric composite. <i>Journal of Applied Physics</i> , 2014, 115, .	2.3	12
72	Design and optimization of a bi-axial vibration-driven electromagnetic generator. <i>Journal of Applied Physics</i> , 2014, 116, .	2.3	12

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73	3D, wideband vibro-impacting-based piezoelectric energy harvester. AIP Advances, 2015, 5, .	1.3	12
74	Robust GMM least square twin K-class support vector machine for urban water pipe leak recognition. Expert Systems With Applications, 2022, 195, 116525.	7.9	12
75	Flexible triboelectric nanogenerator toward ultrahigh-frequency vibration sensing. Nano Research, 2022, 15, 7484-7491.	10.6	12
76	Flexible Battery-Free Wireless Sensor Array Based on Functional Gradient-Structured Wood for Pressure and Temperature Monitoring. Advanced Functional Materials, 2023, 33, .	16.5	12
77	3D Waterproof MXene-Based Textile Electronics for Physiology and Motion Signals Monitoring. Advanced Materials Interfaces, 2022, 9, .	4.1	11
78	Performance of FeCoB based thin-film microwave noise suppressor applied to the electromagnetic interference design in the GHz frequency range. Journal of Applied Physics, 2014, 115, .	2.3	10
79	A resonant electromagnetic vibration energy harvester for intelligent wireless sensor systems. Journal of Applied Physics, 2015, 117, 17B509.	2.3	10
80	Energy Harvesting from Ambient Vibrations with Arbitrary In-Plane Motion Directions Using a Magnetostrictive/Piezoelectric Laminate Composite Transducer. Journal of Electronic Materials, 2014, 43, 2559-2565.	2.2	9
81	High-sensitivity laminated magnetolectric sensors without bias in composite of positive/negative giant magnetostrictive materials and piezoelectric single crystals. Journal of Applied Physics, 2014, 115, .	2.3	8
82	A Smart Pen Based on Triboelectric Effects for Handwriting Pattern Tracking and Biometric Identification. ACS Applied Materials & Interfaces, 2022, 14, 49295-49302.	8.3	8
83	High power and low crest factor of direct-current triboelectric nanogenerator for self-powered optical computing system. Energy and Environmental Science, 2023, 16, 4641-4649.	32.2	8
84	Using Novel Complex-Efficient FastICA Blind Deconvolution Method for Urban Water Pipe Leak Localization in the Presence of Branch Noise. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	3.0	7
85	Leak acoustic detection in water distribution pipelines. , 2008, , .		6
86	Improved piezoelectric multifrequency energy harvesting by magnetic coupling. , 2011, , .		6
87	Enhanced sensitivity in magnetolectric current-sensing devices with frequency up-conversion mechanism by modulating the magnetostrictive strain. Journal of Applied Physics, 2014, 115, .	2.3	6
88	Avoiding Pro Forma: A Health Equity-Conscious Approach to Cancer Control Research. American Journal of Preventive Medicine, 2022, 62, 799-802.	3.1	6
89	A vibration energy harvester using magnetostrictive/piezoelectric composite transducer. , 2009, , .		5
90	DESIGN, MODELING, AND PERFORMANCE MEASUREMENTS OF A BROADBAND VIBRATION ENERGY HARVESTER USING A MAGNETOELECTRIC TRANSDUCER. Instrumentation Science and Technology, 2011, 39, 312-323.	1.7	5

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91	Functional Nanomaterials for Sustainable Energy Technologies. Journal of Nanomaterials, 2016, 2016, 1-2.	2.8	5
92	Modeling of Magnetolectric Effects in Magnetostrictive/Piezoelectric Laminated Composites Using the Energy Method. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.2	5
93	Leak Detection in Water Pipes Based on Maximum Entropy Version of Least Square Twin K-Class Support Vector Machine. Entropy, 2021, 23, 1247.	2.3	5
94	A broadband vibration energy harvester using magnetolectric transducer. , 2010, , .		4
95	A magnetostrictive/piezoelectric laminate transducer based vibration energy harvester with resonance frequency tunability. , 2011, , .		4
96	Modal analysis of leakage-induced acoustic vibrations in different directions for leak detection and location in fluid-filled pipelines. , 2014, , .		4
97	A high-sensitivity zero-biased magnetolectric sensor using five-phase laminate composites based on FeCoV nanocrystalline soft magnetic alloy. AIP Advances, 2017, 7, .	1.3	4
98	Asymmetric arc-shaped vortex-induced electromagnetic generator for harvesting energy from low-velocity flowing water. IET Renewable Power Generation, 2017, 11, 1503-1508.	3.2	4
99	A bi-axial and wideband vibration energy harvester using magnetolectric transducer. , 2012, , .		3
100	Ultra-Broadband Flexible Thin-Film Sensor for Sound Monitoring and Ultrasonic Diagnosis. Small, 2024, 20, .	11.2	3
101	Irreversible ischemia of the hand after peripheral administration of tromethamol (THAM). Intensive Care Medicine, 2003, 29, 503-503.	8.2	2
102	A vibration energy harvester using five-phase laminate composite transducer based on nanocrystalline soft magnetic alloy. Journal of Applied Physics, 2015, 117, .	2.3	2
103	Iontronic Textile-based Capacitive Pressure Sensor for Unconstrained Respiration and Heartbeat Monitoring. Advanced Materials Technologies, 2023, 8, .	6.2	2
104	Characterization of Thickness Loss in a Storage Tank Plate with Piezoelectric Wafer Active Sensors. Crystals, 2022, 12, 92.	2.3	1
105	Leak location procedure based on the complex-valued FastICA blind deconvolution algorithm for water-filled branch pipe. Water Science and Technology: Water Supply, 2022, 22, 2560-2572.	2.1	1
106	Wearable and Flexible Helical Pressure Sensor for Noninvasive Respiratory Monitoring. , 2023, 1, 2765-2771.		1
107	A magnetolectric transducer consisting of magnetostrictive and piezoelectric composite array. , 2008, , .		0
108	Application of blind system identification in acoustic source location. , 2008, , .		0

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109	Multi-resonant vibration energy harvester using a spiral cantilever beam. , 2012, , .		0
110	Effect of adjustable bias voltage on magnetoelectric properties of piezoelectric/magnetostrictive laminate transducer. , 2012, , .		0
111	ãfã,1ãf%ã,ãf»ã-ç”ÿã@ã@ÿé“ã@ã§ã@éœ‡ç¼ã~¾ã¿œã*çµŒéŽ. Kagaku To Seibutsu, 2012, 50, 224-227.	0.0	0
112	Wideband and 2D vibration energy harvester using multiple magnetoelectric transducers. Smart Structures and Systems, 2015, 16, 579-591.	1.9	0