Jin Yang

List of Publications by Year
in descending order

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	Ultraâ€Broadband Flexible Thinâ€Film Sensor for Sound Monitoring and Ultrasonic Diagnosis. Small, 2024, 20, .	11.2	3
2	Flexible Batteryâ€Free Wireless Sensor Array Based on Functional Gradientâ€Structured Wood for Pressure and Temperature Monitoring. Advanced Functional Materials, 2023, 33, .	16.5	12
3	Capacitive Sensors with Hybrid Dielectric Structures and High Sensitivity over a Wide Pressure Range for Monitoring Biosignals. ACS Applied Materials & Interfaces, 2023, 15, 6217-6227.	8.3	23
4	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
5	Iontronic Textileâ€based Capacitive Pressure Sensor for Unconstrained Respiration and Heartbeat Monitoring. Advanced Materials Technologies, 2023, 8, .	6.2	2
6	Wearable and Flexible Helical Pressure Sensor for Noninvasive Respiratory Monitoring. , 2023, 1, 2765-2771.		1
7	Characterization of Thickness Loss in a Storage Tank Plate with Piezoelectric Wafer Active Sensors. Crystals, 2022, 12, 92.	2.3	1
8	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
9	Avoiding Pro Forma: A Health Equityâ€“Conscious Approach to Cancer Control Research. American Journal of Preventive Medicine, 2022, 62, 799-802.	3.1	6
10	3D Waterproof MXeneâ€Based Textile Electronics for Physiology and Motion Signals Monitoring. Advanced Materials Interfaces, 2022, 9, .	4.1	11
11	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
12	Knitting integral conformal all-textile strain sensor with commercial apparel characteristics for smart textiles. Applied Materials Today, 2022, 27, 101508.	4.5	22
13	Flexible triboelectric nanogenerator toward ultrahigh-frequency vibration sensing. Nano Research, 2022, 15, 7484-7491.	10.6	12
14	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
15	Controllable Graphene Wrinkle for a High-Performance Flexible Pressure Sensor. ACS Applied Materials & Interfaces, 2021, 13, 20448-20458.	8.3	120
16	Smart textile triboelectric nanogenerators: Current status and perspectives. MRS Bulletin, 2021, 46, 512-521.	4.2	116
17	Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Fingerâ€Touching. Advanced Functional Materials, 2021, 31, 2102378.	16.5	37
18	Elasticâ€Connection and Softâ€Contact Triboelectric Nanogenerator with Superior Durability and Efficiency. Advanced Functional Materials, 2021, 31, 2105237.	16.5	87

#	Article	IF	Citations
19	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
20	Eco-friendly in-situ gap generation of no-spacer triboelectric nanogenerator for monitoring cardiovascular activities. Nano Energy, 2021, 90, 106580.	16.5	42
21	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
22	A self-powered and high-frequency vibration sensor with layer-powder-layer structure for structural health monitoring. Nano Energy, 2021, 90, 106366.	16.5	41
23	Graded Microstructured Flexible Pressure Sensors with High Sensitivity and an Ultrabroad Pressure Range for Epidermal Pulse Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 55747-55755.	8.3	15
24	Rationally designed rotation triboelectric nanogenerators with much extended lifetime and durability. Nano Energy, 2020, 68, 104378.	16.5	120
25	A passive wireless triboelectric sensor via a surface acoustic wave resonator (SAWR). Nano Energy, 2020, 78, 105307.	16.5	23
26	Smart Insole for Robust Wearable Biomechanical Energy Harvesting in Harsh Environments. ACS Nano, 2020, 14, 14126-14133.	15.3	116
27	Machine-knitted washable sensor array textile for precise epidermal physiological signal monitoring. Science Advances, 2020, 6, eaay2840.	10.9	347
28	Single-layered ultra-soft washable smart textiles for all-around ballistocardiograph, respiration, and posture monitoring during sleep. Biosensors and Bioelectronics, 2020, 155, 112064.	10.4	255
29	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. Matter, 2020, 2, 896-907.	10.2	337
30	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.	16.5	314
31	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. Advanced Materials Technologies, 2019, 4, 1800167.	6.2	62
32	Super-robust and frequency-multiplied triboelectric nanogenerator for efficient harvesting water and wind energy. Nano Energy, 2019, 64, 103908.	16.5	260
33	Triboelectric vibration sensor for a human-machine interface built on ubiquitous surfaces. Nano Energy, 2019, 59, 689-696.	16.5	106
34	An airtight-cavity-structural triboelectric nanogenerator-based insole for high performance biomechanical energy harvesting. Nanoscale, 2019, 11, 6802-6809.	5.8	39
35	An all-textile triboelectric sensor for wearable teleoperated humanâ€“machine interaction. Journal of Materials Chemistry A, 2019, 7, 26804-26811.	10.5	58
36	Ultrasensitive Fingertip-Contacted Pressure Sensors To Enable Continuous Measurement of Epidermal Pulse Waves on Ubiquitous Object Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 46399-46407.	8.3	29

#	Article	IF	Citations
37	A Triboelectric Nanogeneratorâ€Based Smart Insole for Multifunctional Gait Monitoring. Advanced Materials Technologies, 2019, 4, 1800360.	6.2	191
38	Largeâ€Scale and Washable Smart Textiles Based on Triboelectric Nanogenerator Arrays for Selfâ€Powered Sleeping Monitoring. Advanced Functional Materials, 2018, 28, 1704112.	16.5	351
39	Wireless self-powered sensor networks driven by triboelectric nanogenerator for in-situ real time survey of environmental monitoring. Nano Energy, 2018, 53, 501-507.	16.5	117
40	Flexible Timboâ€Like Triboelectric Nanogenerator as Selfâ€Powered Force and Bend Sensor for Wireless and Distributed Landslide Monitoring. Advanced Materials Technologies, 2018, 3, 1800144.	6.2	50
41	A high-sensitivity zero-biased magnetoelectric sensor using five-phase laminate composites based on FeCoV nanocrystalline soft magnetic alloy. AIP Advances, 2017, 7, .	1.3	4
42	Modeling of Magnetoelectric Effects in Magnetostrictive/Piezoelectric Laminated Composites Using the Energy Method. IEEE Transactions on Magnetics, 2017, 53, 1-6.	2.2	5
43	Multi-directional electromagnetic vibration energy harvester using circular Halbach array. AIP Advances, 2017, 7, .	1.3	13
44	Surface Engineering of Graphene Composite Transparent Electrodes for High-Performance Flexible Triboelectric Nanogenerators and Self-Powered Sensors. ACS Applied Materials & Interfaces, 2017, 9, 36017-36025.	8.3	53
45	Triboelectric Nanogenerator Enabled Body Sensor Network for Self-Powered Human Heart-Rate Monitoring. ACS Nano, 2017, 11, 8830-8837.	15.3	418
46	Asymmetric arcâ€shaped vortexâ€induced electromagnetic generator for harvesting energy from lowâ€velocity flowing water. IET Renewable Power Generation, 2017, 11, 1503-1508.	3.2	4
47	Functional Nanomaterials for Sustainable Energy Technologies. Journal of Nanomaterials, 2016, 2016, 1-2.	2.8	5
48	Recent Progress in Triboelectric Nanogenerators as a Renewable and Sustainable Power Source. Journal of Nanomaterials, 2016, 2016, 1-24.	2.8	59
49	A Comprehensive Review of Portosystemic Collaterals in Cirrhosis: Historical Aspects, Anatomy, and Classifications. International Journal of Hepatology, 2016, 2016, 1-15.	1.1	44
50	A Wearable Allâ€Solid Photovoltaic Textile. Advanced Materials, 2016, 28, 263-269.	24.3	262
51	Broadband and three-dimensional vibration energy harvesting by a non-linear magnetoelectric generator. Applied Physics Letters, 2016, 109, .	3.2	54
52	Three-dimensional piezoelectric vibration energy harvester using spiral-shaped beam with triple operating frequencies. Review of Scientific Instruments, 2016, 87, 015003.	1.4	25
53	Enhanced Broadband Vibration Energy Harvesting Using a Multimodal Nonlinear Magnetoelectric Converter. Journal of Electronic Materials, 2016, 45, 3554-3561.	2.2	18
54	Self-Contained Wireless Hall Current Sensor Applied for Two-Wire Zip-Cords. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.2	25

#	Article	IF	Citations
55	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. Nano Energy, 2015, 12, 278-286.	16.5	36
56	Î²-cyclodextrin enhanced triboelectrification for self-powered phenol detection and electrochemical degradation. Energy and Environmental Science, 2015, 8, 887-896.	32.2	195
57	Eardrumâ€Inspired Active Sensors for Selfâ€Powered Cardiovascular System Characterization and Throatâ€Attached Antiâ€Interference Voice Recognition. Advanced Materials, 2015, 27, 1316-1326.	24.3	510
58	Personalized Keystroke Dynamics for Self-Powered Humanâ€“Machine Interfacing. ACS Nano, 2015, 9, 105-116.	15.3	246
59	A resonant electromagnetic vibration energy harvester for intelligent wireless sensor systems. Journal of Applied Physics, 2015, 117, 17B509.	2.3	10
60	Networks of Triboelectric Nanogenerators for Harvesting Water Wave Energy: A Potential Approach toward Blue Energy. ACS Nano, 2015, 9, 3324-3331.	15.3	528
61	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. ACS Nano, 2015, 9, 4236-4243.	15.3	447
62	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. Nature Communications, 2015, 6, 8401.	13.2	287
63	3D, wideband vibro-impacting-based piezoelectric energy harvester. AIP Advances, 2015, 5, .	1.3	12
64	An arc-shaped piezoelectric generator for multi-directional wind energy harvesting. Sensors and Actuators A: Physical, 2015, 236, 173-179.	4.2	48
65	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. ACS Nano, 2015, 9, 12334-12343.	15.3	116
66	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
67	Multilayeredâ€Electrodeâ€Based Triboelectric Nanogenerators with Managed Output Voltage and Multifold Enhanced Charge Transport. Advanced Energy Materials, 2015, 5, 1401452.	22.2	56
68	Wideband and 2D vibration energy harvester using multiple magnetoelectric transducers. Smart Structures and Systems, 2015, 16, 579-591.	1.9	0
69	Dynamic magnetostrictive properties of magnetization-graded ferromagnetic material and application in magnetoelectric composite. Journal of Applied Physics, 2014, 115, .	2.3	12
70	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. Advanced Energy Materials, 2014, 4, 1301322.	22.2	297
71	Design and optimization of a bi-axial vibration-driven electromagnetic generator. Journal of Applied Physics, 2014, 116, .	2.3	12
72	Determination of acoustic speed for improving leak detection and location in gas pipelines. Review of Scientific Instruments, 2014, 85, 024901.	1.4	18

#	Article	IF	Citations
73	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. Advanced Functional Materials, 2014, 24, 4090-4096.	16.5	270
74	Modal analysis of leakage-induced acoustic vibrations in different directions for leak detection and location in fluid-filled pipelines. , 2014, , .		4
75	A vibration energy harvester using magnet/piezoelectric composite transducer. Journal of Applied Physics, 2014, 115, .	2.3	24
76	Leak location in gas pipelines using cross-timeâ€“frequency spectrum of leakage-induced acoustic vibrations. Journal of Sound and Vibration, 2014, 333, 3889-3903.	4.1	70
77	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
78	Triboelectrification Based Motion Sensor for Human-Machine Interfacing. ACS Applied Materials & Interfaces, 2014, 6, 7479-7484.	8.3	165
79	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.	16.5	253
80	Triboelectrification-Based Organic Film Nanogenerator for Acoustic Energy Harvesting and Self-Powered Active Acoustic Sensing. ACS Nano, 2014, 8, 2649-2657.	15.3	409
81	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
82	High-sensitivity laminated magnetoelectric sensors without bias in composite of positive/negative giant magnetostrictive materials and piezoelectric single crystals. Journal of Applied Physics, 2014, 115, .	2.3	8
83	Enhanced sensitivity in magnetoelectric current-sensing devices with frequency up-conversion mechanism by modulating the magnetostrictive strain. Journal of Applied Physics, 2014, 115, .	2.3	6
84	Design and analysis of a 2D broadband vibration energy harvester for wireless sensors. Sensors and Actuators A: Physical, 2014, 205, 47-52.	4.2	45
85	Selfâ€Powered Trajectory, Velocity, and Acceleration Tracking of a Moving Object/Body using a Triboelectric Sensor. Advanced Functional Materials, 2014, 24, 7488-7494.	16.5	165
86	Investigation of magnetostrictive/piezoelectric multilayer composite with a giant zero-biased magnetoelectric effect. Applied Physics A: Materials Science and Processing, 2013, 113, 413-421.	2.4	34
87	Piezoelectric energy harvester scavenging AC magnetic field energy from electric power lines. Sensors and Actuators A: Physical, 2013, 193, 59-68.	4.2	27
88	A two-dimensional broadband vibration energy harvester using magnetoelectric transducer. Applied Physics Letters, 2013, 103, .	3.2	50
89	Harvesting Energy from the Natural Vibration of Human Walking. ACS Nano, 2013, 7, 11317-11324.	15.3	463
90	Triboelectric Nanogenerator Built on Suspended 3D Spiral Structure as Vibration and Positioning Sensor and Wave Energy Harvester. ACS Nano, 2013, 7, 10424-10432.	15.3	206

#	Article	IF	Citations
91	Study on an improved acoustic leak detection method for water distribution systems. Urban Water Journal, 2013, 10, 71-84.	2.1	21
92	Multi-resonant vibration energy harvester using a spiral cantilever beam. , 2012, , .		0
93	Design and testing of piezoelectric energy harvester for powering wireless sensors of electric line monitoring system. Journal of Applied Physics, 2012, 111, 07E510.	2.3	14
94	A bi-axial and wideband vibration energy harvester using magnetoelectric transducer. , 2012, , .		3
95	Effect of adjustable bias voltage on magnetoelectric properties of piezoelectric/magnetostrictive laminate transducer. , 2012, , .		0
96	ãƒê‚¹ãƒ‰ã‚¯ãƒ»å¦ç”Ÿã®å®Ÿé¨“å®¤ã§é©‡ç½²å¯¾å¿œã•çµŒéŽ. Kagaku To Seibutsu, 2012, 50, 224-227.	0.0	0
97	Leak detection and location for gas pipelines using acoustic emission sensors. , 2012, , .		35
98	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
99	Improved piezoelectric multifrequency energy harvesting by magnetic coupling. , 2011, , .		6
100	Magnetoelectric Energy Harvesting from Vibrations of Multiple Frequencies. Journal of Intelligent Material Systems and Structures, 2011, 22, 1631-1639.	2.6	24
101	A magnetoelectric-based broadband vibration energy harvester for powering wireless sensors. Science China Technological Sciences, 2011, 54, 1419-1427.	4.0	14
102	A magnetoelectric, broadband vibration-powered generator for intelligent sensor systems. Sensors and Actuators A: Physical, 2011, 168, 358-364.	4.2	26
103	A magnetostrictive/piezoelectric laminate transducer based vibration energy harvester with resonance frequency tunability. , 2011, , .		4
104	A broadband vibration energy harvester using magnetoelectric transducer. , 2010, , .		4
105	A vibration energy harvester using magnetostrictive/piezoelectric composite transducer. , 2009, , .		5
106	Modeling, characterization and fabrication of vibration energy harvester using Terfenol-D/PZT/Terfenol-D composite transducer. Sensors and Actuators A: Physical, 2009, 156, 350-358.	4.2	138
107	Leak location using blind system identification in water distribution pipelines. Journal of Sound and Vibration, 2008, 310, 134-148.	4.1	48
108	Leak acoustic detection in water distribution pipelines. , 2008, , .		6

#	Article	IF	Citations
109	A magnetoelectric transducer consisting of magnetostrictive and piezoelectric composite array. , 2008, , .		0
110	Application of blind system identification in acoustic source location. , 2008, , .		0
111	Detecting and Evaluating the Signals of Wirelessly Interrogational Passive SAW Resonator Sensors. IEEE Sensors Journal, 2004, 4, 828-836.	4.8	34
112	Irreversible ischemia of the hand after peripheral administration of tromethamol (THAM). Intensive Care Medicine, 2003, 29, 503-503.	8.2	2