

Jin Yang

List of Publications by Year in descending order

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101
papers

9,673
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57631

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102
all docs

102
docs citations

102
times ranked

6597
citing authors

#	ARTICLE	IF	CITATIONS
1	Sign-to-speech translation using machine-learning-assisted stretchable sensor arrays. <i>Nature Electronics</i> , 2020, 3, 571-578.	13.1	513
2	Networks of Triboelectric Nanogenerators for Harvesting Water Wave Energy: A Potential Approach toward Blue Energy. <i>ACS Nano</i> , 2015, 9, 3324-3331.	7.3	509
3	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.	11.1	487
4	Harvesting Energy from the Natural Vibration of Human Walking. <i>ACS Nano</i> , 2013, 7, 11317-11324.	7.3	448
5	Ultrathin, Rollable, Paper-Based Triboelectric Nanogenerator for Acoustic Energy Harvesting and Self-Powered Sound Recording. <i>ACS Nano</i> , 2015, 9, 4236-4243.	7.3	419
6	Triboelectric Nanogenerator Enabled Body Sensor Network for Self-Powered Human Heart-Rate Monitoring. <i>ACS Nano</i> , 2017, 11, 8830-8837.	7.3	400
7	Triboelectrification-Based Organic Film Nanogenerator for Acoustic Energy Harvesting and Self-Powered Active Acoustic Sensing. <i>ACS Nano</i> , 2014, 8, 2649-2657.	7.3	390
8	Large-Scale and Washable Smart Textiles Based on Triboelectric Nanogenerator Arrays for Self-Powered Sleeping Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1704112.	7.8	339
9	A Wireless Textile-Based Sensor System for Self-Powered Personalized Health Care. <i>Matter</i> , 2020, 2, 896-907.	5.0	310
10	Machine-knitted washable sensor array textile for precise epidermal physiological signal monitoring. <i>Science Advances</i> , 2020, 6, eaay2840.	4.7	309
11	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.	7.8	297
12	Broadband Vibrational Energy Harvesting Based on a Triboelectric Nanogenerator. <i>Advanced Energy Materials</i> , 2014, 4, 1301322.	10.2	280
13	3D Stack Integrated Triboelectric Nanogenerator for Harvesting Vibration Energy. <i>Advanced Functional Materials</i> , 2014, 24, 4090-4096.	7.8	263
14	Light-induced pyroelectric effect as an effective approach for ultrafast ultraviolet nanosensing. <i>Nature Communications</i> , 2015, 6, 8401.	5.8	261
15	A Wearable All-Solid Photovoltaic Textile. <i>Advanced Materials</i> , 2016, 28, 263-269.	11.1	254
16	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.	7.8	250
17	Personalized Keystroke Dynamics for Self-Powered Human-Machine Interfacing. <i>ACS Nano</i> , 2015, 9, 105-116.	7.3	239
18	Super-robust and frequency-multiplied triboelectric nanogenerator for efficient harvesting water and wind energy. <i>Nano Energy</i> , 2019, 64, 103908.	8.2	239

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19	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.	5.3	233
20	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.	7.3	204
21	β -cyclodextrin enhanced triboelectrification for self-powered phenol detection and electrochemical degradation. <i>Energy and Environmental Science</i> , 2015, 8, 887-896.	15.6	192
22	A Triboelectric Nanogenerator-Based Smart Insole for Multifunctional Gait Monitoring. <i>Advanced Materials Technologies</i> , 2019, 4, 1800360.	3.0	181
23	Triboelectrification Based Motion Sensor for Human-Machine Interfacing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7479-7484.	4.0	162
24	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.	7.8	161
25	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.	2.0	135
26	Automatic Mode Transition Enabled Robust Triboelectric Nanogenerators. <i>ACS Nano</i> , 2015, 9, 12334-12343.	7.3	111
27	Rationally designed rotation triboelectric nanogenerators with much extended lifetime and durability. <i>Nano Energy</i> , 2020, 68, 104378.	8.2	111
28	Smart textile triboelectric nanogenerators: Current status and perspectives. <i>MRS Bulletin</i> , 2021, 46, 512-521.	1.7	111
29	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.	8.2	109
30	Smart Insole for Robust Wearable Biomechanical Energy Harvesting in Harsh Environments. <i>ACS Nano</i> , 2020, 14, 14126-14133.	7.3	107
31	Controllable Graphene Wrinkle for a High-Performance Flexible Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20448-20458.	4.0	101
32	Triboelectric vibration sensor for a human-machine interface built on ubiquitous surfaces. <i>Nano Energy</i> , 2019, 59, 689-696.	8.2	99
33	Elastic-Connection and Soft-Contact Triboelectric Nanogenerator with Superior Durability and Efficiency. <i>Advanced Functional Materials</i> , 2021, 31, 2105237.	7.8	68
34	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.	2.1	67
35	Keystroke Dynamics Identification Based on Triboelectric Nanogenerator for Intelligent Keyboard Using Deep Learning Method. <i>Advanced Materials Technologies</i> , 2019, 4, 1800167.	3.0	57
36	An all-textile triboelectric sensor for wearable teleoperated human-machine interaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26804-26811.	5.2	57

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37	Multilayeredâ€Electrodeâ€Based Triboelectric Nanogenerators with Managed Output Voltage and Multifold Enhanced Charge Transport. <i>Advanced Energy Materials</i> , 2015, 5, 1401452.	10.2	56
38	Broadband and three-dimensional vibration energy harvesting by a non-linear magnetoelectric generator. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	54
39	Recent Progress in Triboelectric Nanogenerators as a Renewable and Sustainable Power Source. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-24.	1.5	53
40	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.	4.0	51
41	A two-dimensional broadband vibration energy harvester using magnetoelectric transducer. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	50
42	Flexible Timboâ€Like Triboelectric Nanogenerator as Selfâ€Powered Force and Bend Sensor for Wireless and Distributed Landslide Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1800144.	3.0	50
43	Leak location using blind system identification in water distribution pipelines. <i>Journal of Sound and Vibration</i> , 2008, 310, 134-148.	2.1	48
44	An arc-shaped piezoelectric generator for multi-directional wind energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2015, 236, 173-179.	2.0	46
45	Design and analysis of a 2D broadband vibration energy harvester for wireless sensors. <i>Sensors and Actuators A: Physical</i> , 2014, 205, 47-52.	2.0	45
46	Eco-friendly in-situ gap generation of no-spacer triboelectric nanogenerator for monitoring cardiovascular activities. <i>Nano Energy</i> , 2021, 90, 106580.	8.2	35
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.	8.2	35
48	Detecting and Evaluating the Signals of Wirelessly Interrogational Passive SAW Resonator Sensors. <i>IEEE Sensors Journal</i> , 2004, 4, 828-836.	2.4	34
49	Transparent and flexible barcode based on sliding electrification for self-powered identification systems. <i>Nano Energy</i> , 2015, 12, 278-286.	8.2	34
50	An airtight-cavity-structural triboelectric nanogenerator-based insole for high performance biomechanical energy harvesting. <i>Nanoscale</i> , 2019, 11, 6802-6809.	2.8	34
51	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.	1.1	33
52	Leak detection and location for gas pipelines using acoustic emission sensors. , 2012, , .		29
53	Enabling the Unconstrained Epidermal Pulse Wave Monitoring via Fingerâ€Touching. <i>Advanced Functional Materials</i> , 2021, 31, 2102378.	7.8	29
54	Piezoelectric energy harvester scavenging AC magnetic field energy from electric power lines. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 59-68.	2.0	27

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55	A magnetoelectric, broadband vibration-powered generator for intelligent sensor systems. <i>Sensors and Actuators A: Physical</i> , 2011, 168, 358-364.	2.0	26
56	Three-dimensional piezoelectric vibration energy harvester using spiral-shaped beam with triple operating frequencies. <i>Review of Scientific Instruments</i> , 2016, 87, 015003.	0.6	25
57	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.	4.0	25
58	Magnetoelectric Energy Harvesting from Vibrations of Multiple Frequencies. <i>Journal of Intelligent Material Systems and Structures</i> , 2011, 22, 1631-1639.	1.4	24
59	A vibration energy harvester using magnet/piezoelectric composite transducer. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	23
60	Study on an improved acoustic leak detection method for water distribution systems. <i>Urban Water Journal</i> , 2013, 10, 71-84.	1.0	21
61	Self-Contained Wireless Hall Current Sensor Applied for Two-Wire Zip-Cords. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	20
62	A passive wireless triboelectric sensor via a surface acoustic wave resonator (SAWR). <i>Nano Energy</i> , 2020, 78, 105307.	8.2	20
63	Determination of acoustic speed for improving leak detection and location in gas pipelines. <i>Review of Scientific Instruments</i> , 2014, 85, 024901.	0.6	18
64	Enhanced Broadband Vibration Energy Harvesting Using a Multimodal Nonlinear Magnetoelectric Converter. <i>Journal of Electronic Materials</i> , 2016, 45, 3554-3561.	1.0	17
65	Knitting integral conformal all-textile strain sensor with commercial apparel characteristics for smart textiles. <i>Applied Materials Today</i> , 2022, 27, 101508.	2.3	16
66	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.	1.1	14
67	A magnetoelectric-based broadband vibration energy harvester for powering wireless sensors. <i>Science China Technological Sciences</i> , 2011, 54, 1419-1427.	2.0	13
68	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.	4.0	13
69	Dynamic magnetostrictive properties of magnetization-graded ferromagnetic material and application in magnetoelectric composite. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	12
70	Design and optimization of a bi-axial vibration-driven electromagnetic generator. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	12
71	3D, wideband vibro-impacting-based piezoelectric energy harvester. <i>AIP Advances</i> , 2015, 5, .	0.6	12
72	Multi-directional electromagnetic vibration energy harvester using circular Halbach array. <i>AIP Advances</i> , 2017, 7, .	0.6	12

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73	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, .	1.1	10
74	A resonant electromagnetic vibration energy harvester for intelligent wireless sensor systems. Journal of Applied Physics, 2015, 117, 17B509.	1.1	10
75	Flexible triboelectric nanogenerator toward ultrahigh-frequency vibration sensing. Nano Research, 2022, 15, 7484-7491.	5.8	10
76	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.	1.0	9
77	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, .	1.1	8
78	3D Waterproof MXene-Based Textile Electronics for Physiology and Motion Signals Monitoring. Advanced Materials Interfaces, 2022, 9, .	1.9	8
79	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, .	1.3	7
80	Leak acoustic detection in water distribution pipelines. , 2008, , .		6
81	Improved piezoelectric multifrequency energy harvesting by magnetic coupling. , 2011, , .		6
82	Enhanced sensitivity in magnetolectric current-sensing devices with frequency up-conversion mechanism by modulating the magnetostrictive strain. Journal of Applied Physics, 2014, 115, .	1.1	6
83	A vibration energy harvester using magnetostrictive/piezoelectric composite transducer. , 2009, , .		5
84	DESIGN, MODELING, AND PERFORMANCE MEASUREMENTS OF A BROADBAND VIBRATION ENERGY HARVESTER USING A MAGNETOELECTRIC TRANSDUCER. Instrumentation Science and Technology, 2011, 39, 312-323.	0.9	5
85	Functional Nanomaterials for Sustainable Energy Technologies. Journal of Nanomaterials, 2016, 2016, 1-2.	1.5	5
86	Modeling of Magnetolectric Effects in Magnetostrictive/Piezoelectric Laminated Composites Using the Energy Method. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	5
87	A magnetostrictive/piezoelectric laminate transducer based vibration energy harvester with resonance frequency tunability. , 2011, , .		4
88	A high-sensitivity zero-biased magnetolectric sensor using five-phase laminate composites based on FeCoV nanocrystalline soft magnetic alloy. AIP Advances, 2017, 7, .	0.6	4
89	Asymmetric arc-shaped vortex-induced electromagnetic generator for harvesting energy from low-velocity flowing water. IET Renewable Power Generation, 2017, 11, 1503-1508.	1.7	4
90	Leak Detection in Water Pipes Based on Maximum Entropy Version of Least Square Twin K-Class Support Vector Machine. Entropy, 2021, 23, 1247.	1.1	4

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91	A broadband vibration energy harvester using magnetoelectric transducer. , 2010, , .		3
92	A bi-axial and wideband vibration energy harvester using magnetoelectric transducer. , 2012, , .		3
93	Modal analysis of leakage-induced acoustic vibrations in different directions for leak detection and location in fluid-filled pipelines. , 2014, , .		3
94	A vibration energy harvester using five-phase laminate composite transducer based on nanocrystalline soft magnetic alloy. Journal of Applied Physics, 2015, 117, .	1.1	2
95	Characterization of Thickness Loss in a Storage Tank Plate with Piezoelectric Wafer Active Sensors. Crystals, 2022, 12, 92.	1.0	1
96	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.	1.0	1
97	A magnetoelectric transducer consisting of magnetostrictive and piezoelectric composite array. , 2008, , .		0
98	Application of blind system identification in acoustic source location. , 2008, , .		0
99	Multi-resonant vibration energy harvester using a spiral cantilever beam. , 2012, , .		0
100	Effect of adjustable bias voltage on magnetoelectric properties of piezoelectric/magnetostrictive laminate transducer. , 2012, , .		0
101	Wideband and 2D vibration energy harvester using multiple magnetoelectric transducers. Smart Structures and Systems, 2015, 16, 579-591.	1.9	0