

Jianming Wen

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

924
citations

430874

18
h-index

477307

29
g-index

45
all docs

45
docs citations

45
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on a piezo-windmill for energy harvesting. <i>Renewable Energy</i> , 2016, 97, 210-217.	8.9	75
2	Triboelectric Nanogenerator for Ocean Wave Graded Energy Harvesting and Condition Monitoring. <i>ACS Nano</i> , 2021, 15, 16368-16375.	14.6	64
3	A Novel Piezoelectric Inchworm Actuator Driven by One Channel Direct Current Signal. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 2015-2023.	7.9	56
4	A Low-Frequency Structure-Control-Type Inertial Actuator Using Miniaturized Bimorph Piezoelectric Vibrators. <i>IEEE Transactions on Industrial Electronics</i> , 2019, 66, 6179-6188.	7.9	51
5	A self-adapting linear inchworm piezoelectric actuator based on a permanent magnets clamping structure. <i>Mechanical Systems and Signal Processing</i> , 2019, 132, 429-440.	8.0	50
6	Piezoelectric inertial rotary actuators based on asymmetrically clamping structures. <i>Sensors and Actuators A: Physical</i> , 2015, 223, 125-133.	4.1	46
7	Stretchable polyurethane composite foam triboelectric nanogenerator with tunable microwave absorption properties at elevated temperature. <i>Nano Energy</i> , 2021, 89, 106397.	16.0	37
8	A new inertial piezoelectric rotary actuator based on changing the normal pressure. <i>Microsystem Technologies</i> , 2013, 19, 277-283.	2.0	34
9	A novel linear inertial piezoelectric actuator based on asymmetric clamping materials. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111746.	4.1	34
10	An asymmetrical inertial piezoelectric rotary actuator with the bias unit. <i>Sensors and Actuators A: Physical</i> , 2016, 251, 179-187.	4.1	33
11	Flow rate self-sensing of a pump with double piezoelectric actuators. <i>Mechanical Systems and Signal Processing</i> , 2013, 41, 639-648.	8.0	29
12	A Novel Linear Walking Type Piezoelectric Actuator Based on the Parasitic Motion of Flexure Mechanisms. <i>IEEE Access</i> , 2019, 7, 25908-25914.	4.2	28
13	Piezoelectric inertial rotary actuator operating in two-step motion mode for eliminating backward motion. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	26
14	A walking type piezoelectric actuator based on the parasitic motion of obliquely assembled PZT stacks. <i>Smart Materials and Structures</i> , 2021, 30, 085030.	3.5	26
15	Novel inertial piezoelectric actuator with high precision and stability based on a two fixed-end beam structure. <i>Smart Materials and Structures</i> , 2019, 28, 015030.	3.5	24
16	A linear inertial piezoelectric actuator using a single bimorph vibrator. <i>Smart Materials and Structures</i> , 2019, 28, 115020.	3.5	23
17	Performance comparison of two motion modes of a piezoelectric inertial linear motor and its potential application in cell manipulation. <i>Mechanical Systems and Signal Processing</i> , 2021, 157, 107743.	8.0	23
18	Performance evaluation and comparison of a serial-parallel hybrid multichamber piezoelectric pump. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1995-2007.	2.5	21

#	ARTICLE	IF	CITATIONS
19	High-voltage output triboelectric nanogenerator with DC/AC optimal combination method. <i>Nano Research</i> , 2022, 15, 3239-3245.	10.4	20
20	A walking type piezoelectric actuator with two umbrella-shaped flexure mechanisms. <i>Smart Materials and Structures</i> , 2020, 29, 085014.	3.5	19
21	An Umbrella-Shaped Linear Piezoelectric Actuator Based on Stick-Slip Motion Principle. <i>IEEE Access</i> , 2019, 7, 157724-157729.	4.2	15
22	Design and Experimental Performance of a Novel Piezoelectric Inertial Actuator for Magnetorheological Fluid Control Using Permanent Magnet. <i>IEEE Access</i> , 2019, 7, 43573-43580.	4.2	15
23	A parasitic type piezoelectric actuator with an asymmetrical flexure hinge mechanism. <i>Microsystem Technologies</i> , 2020, 26, 917-924.	2.0	15
24	A two-fixed-end beam piezoelectric inertial actuator using electromagnet controlled magnetorheological fluid (MRF) for friction regulation. <i>Smart Materials and Structures</i> , 2020, 29, 065011.	3.5	15
25	Quantitative detection and evaluation of thrombus formation based on electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111437.	10.1	14
26	An inertial piezoelectric hybrid actuator with large angular velocity and high resolution. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2099-2111.	2.5	14
27	An inertial piezoelectric rotary actuator characterized by the motion without rollback. <i>Smart Materials and Structures</i> , 2020, 29, 095015.	3.5	14
28	A linear piezoelectric actuator with the parasitic motion of equilateral triangle flexure mechanism. <i>Smart Materials and Structures</i> , 2020, 29, 015015.	3.5	12
29	A parasitic type piezoelectric actuator with the asymmetrical trapezoid flexure mechanism. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 111907.	4.1	12
30	Quantitative Measurement and Evaluation of Red Blood Cell Aggregation in Normal Blood Based on a Modified Hanai Equation. <i>Sensors</i> , 2019, 19, 1095.	3.8	11
31	An inertial piezoelectric rotary actuator based on active friction regulation using magnetic force. <i>Smart Materials and Structures</i> , 2021, 30, 095014.	3.5	11
32	Piezoelectric stick-slip actuators with flexure hinge mechanisms: A review. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1879-1901.	2.5	10
33	Theoretical Modeling and Experimental Validation of Inertial Piezoelectric Actuators. <i>IEEE Access</i> , 2019, 7, 19881-19889.	4.2	8
34	Theoretical modeling and dynamic characteristics analysis of piezoelectric inertial actuator. <i>International Journal of Mechanical Sciences</i> , 2022, 225, 107363.	6.7	7
35	A Piezoelectric Linear Actuator Controlled by the Reversed-Phase Connection of Two Bimorphs. <i>IEEE Access</i> , 2021, 9, 45845-45852.	4.2	5
36	A Novel Bionic Piezoelectric Actuator Based on the Walrus Motion. <i>Journal of Bionic Engineering</i> , 2021, 18, 1117-1125.	5.0	5

#	ARTICLE	IF	CITATIONS
37	An Air Velocity Monitor for Coal Mine Ventilation Based on Vortex-Induced Triboelectric Nanogenerator. <i>Sensors</i> , 2022, 22, 4832.	3.8	5
38	Feasibility study of a miniaturized magnetorheological grease timing trigger as safety and arming device for spinning projectile. <i>Smart Materials and Structures</i> , 2018, 27, 115030.	3.5	4
39	Quantitative Evaluation of Burn Injuries Based on Electrical Impedance Spectroscopy of Blood with a Seven-Parameter Equivalent Circuit. <i>Sensors</i> , 2021, 21, 1496.	3.8	4
40	An Integrated Piezoelectric Inertial Actuator Controlled by Cam Mechanisms. <i>IEEE Access</i> , 2021, 9, 152756-152764.	4.2	3
41	Principle, Design and Future of Inchworm Type Piezoelectric Actuators. , 0, , .		2
42	Quantitative Measurement of the Erythrocyte Sedimentation Based on Electrical Impedance Spectroscopy with Modified HANAI Theory and the Multi-frequency Parameter Xc. <i>IEEE Sensors Journal</i> , 2021, , 1-1.	4.7	2
43	An Improved Algorithm GVSPM-F for Electrical Impedance Tomography. <i>IEEE Access</i> , 2021, 9, 12592-12600.	4.2	1
44	An Optimization Algorithm H-GVSPM for Electrical Impedance Tomography. <i>IEEE Sensors Journal</i> , 2023, 23, 4518-4526.	4.7	1
45	Design, Characterisation and Prospect of Piezoelectric Microfluidic Technology. , 0, , .		0