

Jianming Wen

List of Publications by Year in descending order

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45
papers

924
citations

430874

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all docs

45
docs citations

45
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	An Optimization Algorithm H-CVSPM for Electrical Impedance Tomography. IEEE Sensors Journal, 2023, 23, 4518-4526.	4.7	1
2	High-voltage output triboelectric nanogenerator with DC/AC optimal combination method. Nano Research, 2022, 15, 3239-3245.	10.4	20
3	Piezoelectric stick-slip actuators with flexure hinge mechanisms: A review. Journal of Intelligent Material Systems and Structures, 2022, 33, 1879-1901.	2.5	10
4	Theoretical modeling and dynamic characteristics analysis of piezoelectric inertial actuator. International Journal of Mechanical Sciences, 2022, 225, 107363.	6.7	7
5	An Air Velocity Monitor for Coal Mine Ventilation Based on Vortex-Induced Triboelectric Nanogenerator. Sensors, 2022, 22, 4832.	3.8	5
6	A Novel Piezoelectric Inchworm Actuator Driven by One Channel Direct Current Signal. IEEE Transactions on Industrial Electronics, 2021, 68, 2015-2023.	7.9	56
7	A Piezoelectric Linear Actuator Controlled by the Reversed-Phase Connection of Two Bimorphs. IEEE Access, 2021, 9, 45845-45852.	4.2	5
8	An Improved Algorithm GVSPM-F for Electrical Impedance Tomography. IEEE Access, 2021, 9, 12592-12600.	4.2	1
9	Quantitative Evaluation of Burn Injuries Based on Electrical Impedance Spectroscopy of Blood with a Seven-Parameter Equivalent Circuit. Sensors, 2021, 21, 1496.	3.8	4
10	A walking type piezoelectric actuator based on the parasitic motion of obliquely assembled PZT stacks. Smart Materials and Structures, 2021, 30, 085030.	3.5	26
11	Performance comparison of two motion modes of a piezoelectric inertial linear motor and its potential application in cell manipulation. Mechanical Systems and Signal Processing, 2021, 157, 107743.	8.0	23
12	An inertial piezoelectric rotary actuator based on active friction regulation using magnetic force. Smart Materials and Structures, 2021, 30, 095014.	3.5	11
13	Triboelectric Nanogenerator for Ocean Wave Graded Energy Harvesting and Condition Monitoring. ACS Nano, 2021, 15, 16368-16375.	14.6	64
14	A Novel Bionic Piezoelectric Actuator Based on the Walrus Motion. Journal of Bionic Engineering, 2021, 18, 1117-1125.	5.0	5
15	Stretchable polyurethane composite foam triboelectric nanogenerator with tunable microwave absorption properties at elevated temperature. Nano Energy, 2021, 89, 106397.	16.0	37
16	Quantitative Measurement of the Erythrocyte Sedimentation Based on Electrical Impedance Spectroscopy with Modified HANAI Theory and the Multi-frequency Parameter Xc. IEEE Sensors Journal, 2021, , 1-1.	4.7	2
17	An Integrated Piezoelectric Inertial Actuator Controlled by Cam Mechanisms. IEEE Access, 2021, 9, 152756-152764.	4.2	3
18	A parasitic type piezoelectric actuator with an asymmetrical flexure hinge mechanism. Microsystem Technologies, 2020, 26, 917-924.	2.0	15

#	ARTICLE	IF	CITATIONS
19	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
20	A novel linear inertial piezoelectric actuator based on asymmetric clamping materials. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111746.	4.1	34
21	Piezoelectric inertial rotary actuator operating in two-step motion mode for eliminating backward motion. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	26
22	A walking type piezoelectric actuator with two umbrella-shaped flexure mechanisms. <i>Smart Materials and Structures</i> , 2020, 29, 085014.	3.5	19
23	An inertial piezoelectric rotary actuator characterized by the motion without rollback. <i>Smart Materials and Structures</i> , 2020, 29, 095015.	3.5	14
24	A parasitic type piezoelectric actuator with the asymmetrical trapezoid flexure mechanism. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 111907.	4.1	12
25	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
26	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
27	An Umbrella-Shaped Linear Piezoelectric Actuator Based on Stick-Slip Motion Principle. <i>IEEE Access</i> , 2019, 7, 157724-157729.	4.2	15
28	Quantitative detection and evaluation of thrombus formation based on electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111437.	10.1	14
29	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
30	Theoretical Modeling and Experimental Validation of Inertial Piezoelectric Actuators. <i>IEEE Access</i> , 2019, 7, 19881-19889.	4.2	8
31	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
32	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
33	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
34	A linear inertial piezoelectric actuator using a single bimorph vibrator. <i>Smart Materials and Structures</i> , 2019, 28, 115020.	3.5	23
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
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	An asymmetrical inertial piezoelectric rotary actuator with the bias unit. <i>Sensors and Actuators A: Physical</i> , 2016, 251, 179-187.	4.1	33
40	Study on a piezo-windmill for energy harvesting. <i>Renewable Energy</i> , 2016, 97, 210-217.	8.9	75
41	Piezoelectric inertial rotary actuators based on asymmetrically clamping structures. <i>Sensors and Actuators A: Physical</i> , 2015, 223, 125-133.	4.1	46
42	A new inertial piezoelectric rotary actuator based on changing the normal pressure. <i>Microsystem Technologies</i> , 2013, 19, 277-283.	2.0	34
43	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
44	Principle, Design and Future of Inchworm Type Piezoelectric Actuators. , 0, , .		2
45	Design, Characterisation and Prospect of Piezoelectric Microfluidic Technology. , 0, , .		0