

# Wang Renming

## List of Publications by Year in descending order

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37  
papers

1,006  
citations

516710

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434195

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37  
all docs

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docs citations

37  
times ranked

443  
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	The Development of Piezoelectric Inchworm Actuator Clamped With Magnetorheological Elastomer and Its Potential Application in Brain-Computer Interface Implantation. IEEE Transactions on Industrial Electronics, 2023, 70, 4018-4026.	7.9	7
3	High-voltage output triboelectric nanogenerator with DC/AC optimal combination method. Nano Research, 2022, 15, 3239-3245.	10.4	20
4	Theoretical modeling and dynamic characteristics analysis of piezoelectric inertial actuator. International Journal of Mechanical Sciences, 2022, 225, 107363.	6.7	7
5	A Novel Piezoelectric Inchworm Actuator Driven by One Channel Direct Current Signal. IEEE Transactions on Industrial Electronics, 2021, 68, 2015-2023.	7.9	56
6	Development of a Portable Electrical Impedance Tomography Device for Online Thrombus Detection in Extracorporeal-Circulation Equipment. IEEE Sensors Journal, 2021, 21, 3653-3659.	4.7	17
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 Prediction Method for Animal-Derived Drug Resistance Trend Using a Grey-BP Neural Network Combination Model. Antibiotics, 2021, 10, 692.	3.7	5
11	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
12	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
13	An inertial piezoelectric rotary actuator based on active friction regulation using magnetic force. Smart Materials and Structures, 2021, 30, 095014.	3.5	11
14	Triboelectric Nanogenerator for Ocean Wave Graded Energy Harvesting and Condition Monitoring. ACS Nano, 2021, 15, 16368-16375.	14.6	64
15	A Novel Bionic Piezoelectric Actuator Based on the Walrus Motion. Journal of Bionic Engineering, 2021, 18, 1117-1125.	5.0	5
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	Evaluation of electrical characteristics of biological tissue with electrical impedance spectroscopy. <i>Electrophoresis</i> , 2020, 41, 1425-1432.	2.4	21
20	Antimicrobial Resistance Risk Assessment Models and Database System for Animal-Derived Pathogens. <i>Antibiotics</i> , 2020, 9, 829.	3.7	6
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	An inertial piezoelectric rotary actuator characterized by the motion without rollback. <i>Smart Materials and Structures</i> , 2020, 29, 095015.	3.5	14
23	A parasitic type piezoelectric actuator with the asymmetrical trapezoid flexure mechanism. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 111907.	4.1	12
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	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
26	Effect of an Anti-Mixing Cover on the Back-Flow in the Separation Chamber of a Cyclone Separator. <i>IEEE Access</i> , 2019, 7, 108504-108512.	4.2	1
27	Quantitative detection and evaluation of thrombus formation based on electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2019, 141, 111437.	10.1	14
28	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
29	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
30	Stepping piezoelectric actuators with large working stroke for nano-positioning systems: A review. <i>Sensors and Actuators A: Physical</i> , 2019, 292, 39-51.	4.1	173
31	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
32	A linear inertial piezoelectric actuator using a single bimorph vibrator. <i>Smart Materials and Structures</i> , 2019, 28, 115020.	3.5	23
33	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
34	A Piezoelectric-Driven Linear Actuator by Means of Coupling Motion. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 2458-2466.	7.9	121
35	A piezoelectric-driven rotary actuator by means of inchworm motion. <i>Sensors and Actuators A: Physical</i> , 2013, 194, 269-276.	4.1	122
36	Design and experimental research of a novel inchworm type piezo-driven rotary actuator with the changeable clamping radius. <i>Review of Scientific Instruments</i> , 2013, 84, 015006.	1.3	29

#	ARTICLE	IF	CITATIONS
37	Principle, Design and Future of Inchworm Type Piezoelectric Actuators. , 0, , .		2