

Xiaojing Mu

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,816
citations

257450

24
h-index

265206

42
g-index

54
all docs

54
docs citations

54
times ranked

1889
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow-Driven Triboelectric Generator for Directly Powering a Wireless Sensor Node. <i>Advanced Materials</i> , 2015, 27, 240-248.	21.0	167
2	Elasto-Aerodynamics-Driven Triboelectric Nanogenerator for Scavenging Air-Flow Energy. <i>ACS Nano</i> , 2015, 9, 9554-9563.	14.6	165
3	A chaotic pendulum triboelectric-electromagnetic hybridized nanogenerator for wave energy scavenging and self-powered wireless sensing system. <i>Nano Energy</i> , 2020, 69, 104440.	16.0	152
4	Flexible and transparent triboelectric nanogenerator based on high performance well-ordered porous PDMS dielectric film. <i>Nano Research</i> , 2016, 9, 3714-3724.	10.4	120
5	Triboelectric liquid volume sensor for self-powered lab-on-chip applications. <i>Nano Energy</i> , 2016, 23, 80-88.	16.0	101
6	Metal-Organic Framework Surface-Enhanced Infrared Absorption Platform Enables Simultaneous On-Chip Sensing of Greenhouse Gases. <i>Advanced Science</i> , 2020, 7, 2001173.	11.2	71
7	Multi-Band Sensing for Dielectric Property of Chemicals Using Metamaterial Integrated Microfluidic Sensor. <i>Scientific Reports</i> , 2018, 8, 14801.	3.3	60
8	Terahertz biosensing based on bi-layer metamaterial absorbers toward ultra-high sensitivity and simple fabrication. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	59
9	A self-powered and self-functional tracking system based on triboelectric-electromagnetic hybridized blue energy harvesting module. <i>Nano Energy</i> , 2020, 72, 104684.	16.0	58
10	Tannic acid-modified silver nanoparticles for enhancing anti-biofilm activities and modulating biofilm formation. <i>Biomaterials Science</i> , 2020, 8, 4852-4860.	5.4	56
11	Methods for improving electromechanical coupling coefficient in two dimensional electric field excited AlN Lamb wave resonators. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	47
12	A double-helix-structured triboelectric nanogenerator enhanced with positive charge traps for self-powered temperature sensing and smart-home control systems. <i>Nanoscale</i> , 2018, 10, 19781-19790.	5.6	46
13	Infrared metamaterial for surface-enhanced infrared absorption spectroscopy: pushing the frontier of ultrasensitive on-chip sensing. <i>International Journal of Optomechatronics</i> , 2021, 15, 97-119.	6.6	46
14	Enhancing the Output Performance of Triboelectric Nanogenerator via Grating-Enabled Surface Plasmon Excitation. <i>Advanced Energy Materials</i> , 2019, 9, 1902725.	19.5	45
15	Diaphragm shape effect on the sensitivity of surface acoustic wave based pressure sensor for harsh environment. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	44
16	Dual mode acoustic wave sensor for precise pressure reading. <i>Applied Physics Letters</i> , 2014, 105, 113507.	3.3	43
17	Infrared Plasmonic Biosensor with Tetrahedral DNA Nanostructure as Carriers for Label-Free and Ultrasensitive Detection of <i>miR-155</i> . <i>Advanced Science</i> , 2021, 8, e2100583.	11.2	43
18	Bionic Ultra-Sensitive Self-Powered Electromechanical Sensor for Muscle-Triggered Communication Application. <i>Advanced Science</i> , 2021, 8, e2101020.	11.2	41

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19	An aptamer-based shear horizontal surface acoustic wave biosensor with a CVD-grown single-layered graphene film for high-sensitivity detection of a label-free endotoxin. <i>Microsystems and Nanoengineering</i> , 2020, 6, 4.	7.0	37
20	Plasmonic Biosensor Augmented by a Genetic Algorithm for Ultra-Rapid, Label-Free, and Multi-Functional Detection of COVID-19. <i>Analytical Chemistry</i> , 2021, 93, 9437-9444.	6.5	34
21	Viscosity and density decoupling method using a higher order Lamb wave sensor. <i>Journal of Micromechanics and Microengineering</i> , 2014, 24, 075002.	2.6	30
22	A high sensitive SH-SAW biosensor based 36Å° Y-X black LiTaO3 for label-free detection of <i>Pseudomonas Aeruginosa</i> . <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 757-764.	7.8	29
23	Multifunctional Chemical Sensing Platform Based on Dual-Resonant Infrared Plasmonic Perfect Absorber for On-Chip Detection of Poly(ethyl cyanoacrylate). <i>Advanced Science</i> , 2021, 8, e2101879.	11.2	29
24	A Triboelectric Nanogenerator Exploiting the Bernoulli Effect for Scavenging Wind Energy. <i>Cell Reports Physical Science</i> , 2020, 1, 100207.	5.6	26
25	Integrating a Microwave Resonator and a Microchannel with an Immunochromatographic Strip for Stable and Quantitative Biodetection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14630-14639.	8.0	25
26	A Nonresonant Hybridized Electromagnetic-Triboelectric Nanogenerator for Irregular and Ultralow Frequency Blue Energy Harvesting. <i>Research</i> , 2021, 2021, 5963293.	5.7	24
27	Single-Layered Graphene/Au-Nanoparticles-Based Love Wave Biosensor for Highly Sensitive and Specific Detection of <i>Staphylococcus aureus</i> Gene Sequences. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12417-12425.	8.0	21
28	Electric Field Stiffening Effect in <i>c</i> -Oriented Aluminum Nitride Piezoelectric Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1819-1827.	8.0	18
29	Loss-induced phase transition in mid-infrared plasmonic metamaterials for ultrasensitive vibrational spectroscopy. <i>Informa-Materially</i> , 2022, 4, .	17.3	18
30	Dual-mode resonant infrared detector based on film bulk acoustic resonator toward ultra-high sensitivity and anti-interference capability. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	16
31	Boosting Output Performance of Triboelectric Nanogenerator via Mutual Coupling Effects Enabled Photon-Carriers and Plasmon. <i>Advanced Science</i> , 2022, 9, e2103957.	11.2	16
32	Flutter Phenomenon in Flow Driven Energy Harvester—A Unified Theoretical Model for Stiff and Flexible Materials. <i>Scientific Reports</i> , 2016, 6, 35180.	3.3	15
33	A high performance triboelectric nanogenerator based on ordered doping technique for human-machine interaction sensing. <i>Nano Energy</i> , 2022, 95, 107025.	16.0	15
34	An Energy Harvester Coupled with a Triboelectric Mechanism and Electrostatic Mechanism for Biomechanical Energy Harvesting. <i>Nanomaterials</i> , 2022, 12, 933.	4.1	13
35	Dual-resonator Lamb wave strain sensor with temperature compensation and enhanced sensitivity. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	11
36	High-temperature high-sensitivity AlN-on-SOI Lamb wave resonant strain sensor. <i>AIP Advances</i> , 2018, 8, .	1.3	10

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37	Theoretical and Experimental Studies on MEMS Variable Cross-Section Cantilever Beam Based Piezoelectric Vibration Energy Harvester. <i>Micromachines</i> , 2021, 12, 772.	2.9	8
38	Directional etching for high aspect ratio nano-trenches on hexagonal boron nitride by catalytic metal particles. <i>2D Materials</i> , 2022, 9, 025015.	4.4	8
39	Temperature Monitorable Kinetics Study of Human Blood Coagulation by Utilizing a Dual-Mode AlN-Based Acoustic Wave Resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 131-135.	3.0	7
40	Note: Modified ϵ -type Butterworth-Van Dyke model for dual-mode Lamb-wave resonator with precise two-port Y-parameter characterizations. <i>Review of Scientific Instruments</i> , 2016, 87, 106101.	1.3	6
41	Temperature decoupled viscosity-density product measurement in liquid by utilizing a dual-mode AlN-based acoustic wave resonator. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	6
42	Metamaterial Gas Sensing Platform Based on Surface-Enhanced Infrared Absorption. , 2020, , .		5
43	An Enhanced-Differential PMUT for Ultra-Long Distance Measurement in Air. , 2021, , .		5
44	Resonant Magnetometer for Ultralow Magnetic Field Detection by Integrating Magnetoelastic Membrane on Film Bulk Acoustic Resonator. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2022, 69, 1452-1460.	3.0	5
45	Triboelectric Nanogenerators: Enhancing the Output Performance of Triboelectric Nanogenerator via Gratingâ€Electrodeâ€Enabled Surface Plasmon Excitation (<i>Adv. Energy Mater.</i> 44/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970177.	19.5	4
46	Surface-Enhanced Infrared Absorption-Based Biosensor and its Application to DNA Identification. , 2020, , .		4
47	A piezoelectric micromachined ultrasonic transducer with mechanical grooves. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 085009.	2.6	4
48	Piezoelectric PVDF Films Enhanced by Ag@SiO ₂ Nanoparticles for MEMS Transducer. , 2020, , .		1
49	Simultaneous Quantification and Identification of Protein by Metamaterial Perfect Absorber. , 2020, , .		1
50	Mid-IR Metamaterial Absorber with Polyvinylamine as a Sensitive Layer for On-Chip Sensing of Carbon Dioxide. , 2021, , .		1
51	A modified PiBVD model for Lamb wave resonator. , 2016, , .		0
52	Modelling of high frequency Lamb wave resonator for monolithic CMOS radar transceiver. , 2016, , .		0
53	Study on the Influence of Ferroelectric Materials on the Output Performance of Triboelectric Nanogenerators. , 2019, , .		0
54	Enhancing the Output Charge Density of Triboelectric Nanogenerator via Building Charge Blocking Layer. , 2021, , .		0