

Xueyong Wei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109
papers

1,221
citations

16
h-index

30
g-index

125
ext. papers

1,571
ext. citations

4.1
avg, IF

5
L-index

#	Paper	IF	Citations
109	Noise Analysis and Performance Improvement of a MEMS Fabry-Pérot Seismic Accelerometer. <i>IEEE Sensors Journal</i> , 2022 , 22, 365-372	4	1
108	Optimal Pt mesoporous layer modified nanocomposite film with highly sensitive detection of ethanol at low temperature. <i>Applied Surface Science</i> , 2022 , 578, 151983	6.7	1
107	Graded Interlocks for Iontronic Pressure Sensors with High Sensitivity and High Linearity over a Broad Range.. <i>ACS Nano</i> , 2022 ,	16.7	13
106	A Compact Optical MEMS Pressure Sensor Based on Fabry-Pérot Interference.. <i>Sensors</i> , 2022 , 22,	3.8	2
105	Amplifying charge-sensing in micromechanical oscillators based on synchronization. <i>Sensors and Actuators A: Physical</i> , 2022 , 339, 113517	3.9	
104	Acid vapor oxidation growth of SnO ₂ nanospheres with ultra-high sensitivity to ethanol detection at low temperature. <i>Journal of Alloys and Compounds</i> , 2022 , 905, 164229	5.7	0
103	Microfluidic acoustic valve for capturing locomotive microorganism without anesthesia. <i>Sensors and Actuators A: Physical</i> , 2022 , 113568	3.9	0
102	Frequency comb in 1:3 internal resonance of coupled micromechanical resonators. <i>Applied Physics Letters</i> , 2022 , 120, 173506	3.4	1
101	Mode interaction induced response flattening in two mechanically coupled micro-resonators. <i>Mechanical Systems and Signal Processing</i> , 2022 , 177, 109164	7.8	0
100	Two-dimensional metamaterials as meta-foams for optimized surface-enhanced solar steam generation. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 243, 111793	6.4	2
99	A rapid fluorescent aptasensor for point-of-care detection of C-reactive protein. <i>Talanta</i> , 2022 , 249, 123661		0
98	Effect of Joule heating on the performance of micromechanical piezoresistive oscillator. <i>Sensors and Actuators A: Physical</i> , 2021 , 333, 113234	3.9	
97	Effect of regulating compressive strains on thermal transport of silicon-based amorphous silica thin films and interfacial thermal resistance. <i>Vacuum</i> , 2021 , 110676	3.7	
96	MEMS based ultra-high order frequency multiplication utilizing superharmonic synchronization effect. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113152	3.9	0
95	A high-resolution resonant torque sensor based on MEMS quartz resonator. <i>Sensors and Actuators A: Physical</i> , 2021 , 320, 112579	3.9	2
94	Hierarchical Pt-decorated In ₂ O ₃ microspheres with highly enhanced isoprene sensing properties. <i>Ceramics International</i> , 2021 , 47, 9477-9485	5.1	7
93	Amplitude region for triggering frequency locking in internal resonance response of two nonlinearly coupled micro-resonators. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 130, 103673	2.8	1

92	Asymmetric phononic frequency comb in a rhombic micromechanical resonator. <i>Applied Physics Letters</i> , 2021 , 118, 223502	3.4	2
91	Frequency locking in the internal resonance of two electrostatically coupled micro-resonators with frequency ratio 1:3. <i>Mechanical Systems and Signal Processing</i> , 2021 , 146, 106981	7.8	20
90	Acoustic valves in microfluidic channels for droplet manipulation. <i>Lab on A Chip</i> , 2021 , 21, 3165-3173	7.2	6
89	A probe-type high-precision micro-force sensor based on quartz DETF resonator. <i>Measurement Science and Technology</i> , 2021 , 32, 115107	2	1
88	Capacitance Detection Based on High Order Synchronization Sensing. <i>IEEE Sensors Journal</i> , 2021 , 21, 16780-16789	4	0
87	Phase-delay induced variation of synchronization bandwidth and frequency stability in a micromechanical oscillator. <i>Nonlinear Dynamics</i> , 2021 , 105, 2981-2994	5	0
86	Robot-aided FNth torque sensing within an ultrawide dynamic range. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 2	7.7	3
85	Anomalous amplitude-frequency dependence in a micromechanical resonator under synchronization. <i>Nonlinear Dynamics</i> , 2021 , 103, 467-479	5	8
84	Seesaw Capacitive Structure as an Electrostatically Actuated Nonlinear Impact Resonator. <i>Sensors and Actuators A: Physical</i> , 2020 , 315, 112279	3.9	1
83	Frequency characteristics and thermal compensation of MEMS devices based on geometric anti-spring. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 085014	2	4
82	In-plane Dual-axis MEMS Resonant Accelerometer with A Uniform Sensitivity 2020 ,		1
81	Design and simulation of a MEMS FabryPerot accelerometer with ultra-low cross-axis sensitivity. <i>Smart Materials and Structures</i> , 2020 , 29, 085029	3.4	1
80	A vibrating membrane working electrode for highly sensitive anodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127948	8.5	3
79	Research on a Micro-Processing Technology for Fabricating Complex Structures in Single-Crystal Quartz. <i>Micromachines</i> , 2020 , 11,	3.3	2
78	A digital low-frequency geophone based on 4th-order sigma-delta modulator and single-coil velocity feedback. <i>Sensors and Actuators A: Physical</i> , 2020 , 312, 112074	3.9	3
77	Closed-loop capacitive readout based on mode localization effect in weakly-coupled RLC circuits. <i>Sensors and Actuators A: Physical</i> , 2020 , 304, 111904	3.9	3
76	Hydrothermal synthesis of flower-like In2O3 as a chemiresistive isoprene sensor for breath analysis. <i>Sensors and Actuators B: Chemical</i> , 2020 , 309, 127788	8.5	33
75	Intra-droplet particle enrichment in a focused acoustic field.. <i>RSC Advances</i> , 2020 , 10, 11565-11572	3.7	5

74	Acoustic-Controlled Bubble Generation and Fabrication of 3D Polymer Porous Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22318-22326	9.5	10
73	Thermal conductivity and interfacial thermal resistance in the heterostructure of silicon/amorphous silicon dioxide: the strain and temperature effect. <i>Nanotechnology</i> , 2020 , 31, 505703	3.4	7
72	A MEMS based Fabry-Pérot accelerometer with high resolution. <i>Microsystem Technologies</i> , 2020 , 26, 1961-1969	1.7	13
71	A Sensitivity Tunable Accelerometer Based on Series-Parallel Electromechanically Coupled Resonators Using Mode Localization. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 3-13	2.5	21
70	Single-electron detection utilizing coupled nonlinear microresonators. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 78	7.7	9
69	Programmable synchronization enhanced MEMS resonant accelerometer. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 63	7.7	12
68	Construction of core-shell microcapsules focused surface acoustic wave microfluidics. <i>Lab on A Chip</i> , 2020 , 20, 3104-3108	7.2	4
67	Fluorescent labeling based acoustofluidic screening of Japanese encephalitis virus. <i>Sensors and Actuators B: Chemical</i> , 2020 , 322, 128649	8.5	0
66	Temperature compensation for MEMS resonant accelerometer based on genetic algorithm optimized backpropagation neural network. <i>Sensors and Actuators A: Physical</i> , 2020 , 316, 112393	3.9	11
65	Analytical Study and Thermal Compensation for Capacitive MEMS Accelerometer With Anti-Spring Structure. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1389-1400	2.5	5
64	Effects of strain on thermal conductivity of silicon dioxide thin films using test method based on 3- ω technique and uniaxial strain setup. <i>Review of Scientific Instruments</i> , 2020 , 91, 084901	1.7	2
63	Design and numerical performance analysis of a microgravity accelerometer with quasi-zero stiffness. <i>Smart Materials and Structures</i> , 2020 , 29, 075018	3.4	5
62	Electrochemical methods for detection of biomarkers of Chronic Obstructive Pulmonary Disease in serum and saliva. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111453	11.8	21
61	Focused surface acoustic waves induced microdroplets generation and its application for microgels. <i>Sensors and Actuators B: Chemical</i> , 2019 , 291, 1-8	8.5	6
60	Design of SAW sensor for longitudinal strain measurement with improved sensitivity. <i>Microsystem Technologies</i> , 2019 , 25, 351-359	1.7	5
59	A low noise capacitive MEMS accelerometer with anti-spring structure. <i>Sensors and Actuators A: Physical</i> , 2019 , 296, 79-86	3.9	33
58	Effects of phase delay on synchronization in a nonlinear micromechanical oscillator. <i>Applied Physics Letters</i> , 2019 , 114, 233501	3.4	13
57	Thermal conduction in amorphous/crystalline silicon superlattices: a molecular dynamics study of the size, temperature, and strain effect. <i>Materials Research Express</i> , 2019 , 6, 115041	1.7	1

56	Internal resonance between the extensional and flexural modes in micromechanical resonators. <i>Journal of Applied Physics</i> , 2019 , 126, 164506	2.5	6
55	A MEMS accelerometer based on synchronizing DETF oscillators 2019 ,		5
54	A Numerical Feasibility Study of Kinetic Energy Harvesting from Lower Limb Prosthetics. <i>Energies</i> , 2019 , 12, 3824	3.1	5
53	Micromechanical vibration absorber for frequency stability improvement of DETF oscillator. <i>Journal of Micromechanics and Microengineering</i> , 2019 , 29, 045005	2	1
52	Experimental Study of pre-Stressed Micromechanical anti-Spring Structures 2019 ,		2
51	Multiphysics vibration FE model of piezoelectric macro fibre composite on carbon fibre composite structures. <i>Composites Part B: Engineering</i> , 2019 , 161, 376-385	10	21
50	Phase switch in the stochastic response of a micromechanical beam resonator. <i>Acta Mechanica</i> , 2018 , 229, 2177-2187	2.1	5
49	Synchronization of electrically coupled micromechanical oscillators with a frequency ratio of 3:1. <i>Applied Physics Letters</i> , 2018 , 112, 013503	3.4	26
48	A Novel Single-Axis MEMS Tilt Sensor with a High Sensitivity in the Measurement Range from 0 to 360. <i>Sensors</i> , 2018 , 18,	3.8	8
47	A Manganin Thin Film Ultra-High Pressure Sensor for Microscale Detonation Pressure Measurement. <i>Sensors</i> , 2018 , 18,	3.8	9
46	Comparison Study of Three Readout Methods for a Capacitive MEMS Accelerometer 2018 ,		4
45	Sensitivity enhancement of a resonant mass sensor based on internal resonance. <i>Applied Physics Letters</i> , 2018 , 113, 223505	3.4	21
44	A MEMS resonant accelerometer for low-frequency vibration detection. <i>Sensors and Actuators A: Physical</i> , 2018 , 283, 151-158	3.9	37
43	Effect of nonlinearity and axial force on frequency drift of a T-shaped tuning fork micro-resonator. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 125012	2	8
42	Frequency stability improvement for piezoresistive micromechanical oscillators via synchronization. <i>AIP Advances</i> , 2017 , 7, 035204	1.5	11
41	Frequency latching in nonlinear micromechanical resonators. <i>Applied Physics Letters</i> , 2017 , 110, 143506	3.4	10
40	Research of a Novel Ultra-High Pressure Sensor with High-Temperature Resistance. <i>Micromachines</i> , 2017 , 9,	3.3	4
39	Nanorobotic System iTRo for Controllable 1D Micro/nano Material Twisting Test. <i>Scientific Reports</i> , 2017 , 7, 3077	4.9	11

38	A high resolution tilt measurement system based on multi-accelerometers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 109, 215-222	4.6	16
37	Study of ZnS Nanostructures Based Electrochemical and Photoelectrochemical Biosensors for Uric Acid Detection. <i>Sensors</i> , 2017 , 17,	3.8	19
36	Plastic Deformation of Micromachined Silicon Diaphragms with a Sealed Cavity at High Temperatures. <i>Sensors</i> , 2016 , 16, 204	3.8	10
35	Nonlinear coupling of flexural mode and extensional bulk mode in micromechanical resonators. <i>Applied Physics Letters</i> , 2016 , 109, 224102	3.4	11
34	A MEMS resonant tilt sensor with high sensitivity maintained in the whole 360° measurement range 2016 ,		1
33	Surface acoustic wave (SAW) - induced particle rotation and aggregation in microdroplet 2016 ,		2
32	Sensitivity improvement of SAW pressure sensors based on finite element analysis 2016 ,		4
31	Synthesis of fluorescent core-shell nanomaterials and strategies to generate white light. <i>Journal of Applied Physics</i> , 2015 , 118, 044305	2.5	7
30	Lipid-AuNPs@PDA nanohybrid for MRI/CT imaging and photothermal therapy of hepatocellular carcinoma. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14266-77	9.5	133
29	Emerging microfluidic devices for cell lysis: a review. <i>Lab on A Chip</i> , 2014 , 14, 1060-73	7.2	102
28	Structural design of microfluidic channels for blood plasma separation. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 7419-26	1.3	4
27	Analytical formulation of modal frequency split in the elliptical mode of SCS micromechanical disk resonators. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 025011	2	9
26	Highly luminescent ZnS:Mn/ZnS core shell nanoparticles for solid state lightning 2013 ,		1
25	Differential piezoresistive sensing in a bulk-mode micromechanical resonator. <i>Micro and Nano Letters</i> , 2013 , 8, 107-110	0.9	14
24	Amplitude response of a unilaterally constrained nonlinear micromechanical resonator. <i>Micro and Nano Letters</i> , 2012 , 7, 279	0.9	2
23	Effect of surface roughness on rarefied-gas heat transfer in microbearings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 789-794	2.3	5
22	A review on slip models for gas microflows. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 845-882	2.8	207
21	Slip flow and heat transfer in microbearings with fractal surface topographies. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7223-7233	4.9	11

20	2011,			6
19	A preliminary study into emergent behaviours in a lattice of interacting nonlinear resonators and oscillators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011 , 16, 2945-2956	3.7		5
18	Nonlinear Dynamics of a Periodically Driven Duffing Resonator Coupled to a Van der Pol Oscillator. <i>Mathematical Problems in Engineering</i> , 2011 , 2011, 1-16	1.1		9
17	Fabrication of Nickel Nanostructure Arrays Via a Modified Nanosphere Lithography. <i>Nanoscale Research Letters</i> , 2011 , 6, 25	5		7
16	Recent developments in the fabrication of ordered nanostructure arrays based on nanosphere lithography. <i>Recent Patents on Nanotechnology</i> , 2010 , 4, 194-204	1.2		4
15	Collective Behaviour in a Square Lattice of Driven Duffing Resonators Coupled to van der Pol Oscillators 2010,			2
14	Fabrication and quality factor control of a microelectromechanical system resonator with linear differential drive. <i>IET Science, Measurement and Technology</i> , 2010 , 4, 206-213	1.5		6
13	Analysis of manufacturing variation in a coupled microresonators array based on its designed values and measured eigenfrequencies. <i>Micro and Nano Letters</i> , 2010 , 5, 300	0.9		5
12	Design and Fabrication of a Nonlinear Micro Impact Oscillator. <i>Procedia Chemistry</i> , 2009 , 1, 855-858			7
11	Fabrication of large-area nickel nanobump arrays. <i>Microelectronic Engineering</i> , 2009 , 86, 871-873	2.5		9
10	Impact of Manufacturing Variation on the Performance of Coupled Micro Resonator Array for Mass Detection Sensor. <i>Procedia Chemistry</i> , 2009 , 1, 831-834			7
9	Temperature dependent electrical resistivity of a single strand of ferromagnetic single crystalline nanowire. <i>Applied Physics Letters</i> , 2009 , 95, 013112	3.4		19
8	Determination of young's modulus of electrochemically co-deposited Ni-Al ₂ O ₃ nanocomposite. <i>Materials Letters</i> , 2008 , 62, 1916-1918	3.3		11
7	Large-scale fabrication of ordered metallic hybrid nanostructures. <i>Optics Express</i> , 2008 , 16, 11888-93	3.3		13
6	Thick photoresists for electroforming metallic microcomponents. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008 , 222, 37-42	1.3		9
5	Synthesis and Characterization of Nanoparticulate Strengthened Nickel Microcomponents. <i>Advances in Science and Technology</i> , 2008 , 54, 299-304	0.1		1
4	Electrochemical co-deposition of Nickel-Alumina Nanocomposite for Microsystem Applications 2007,			1
3	A net-shape fabrication process of alumina micro-components using a soft lithography technique. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 193-198	2		25

- 2 Simulation of Rarefied Gas Flow in Microchannel Based on Vorticity-Stream Function Method **2007**, 1
- 1 Fabrication of NiAl₂O₃ composite microcomponent by electroforming. *Microelectronic Engineering*, **2007**, 84, 1256-1259 2.5 16