Jianmin Miao

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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.

196
papers

5,035
citations

h-index

63
g-index

6,000
ext. papers

6,000
ext. citations

4
avg, IF
L-index

#	Paper	IF	Citations
196	A practical guide for the fabrication of microfluidic devices using glass and silicon. <i>Biomicrofluidics</i> , 2012 , 6, 16505-1650516	3.2	224
195	An intrinsically stretchable humidity sensor based on anti-drying, self-healing and transparent organohydrogels. <i>Materials Horizons</i> , 2019 , 6, 595-603	14.4	178
194	Probing charged impurities in suspended graphene using Raman spectroscopy. ACS Nano, 2009, 3, 569-	7 4 6.7	177
193	Ultrastretchable and Stable Strain Sensors Based on Antifreezing and Self-Healing Ionic Organohydrogels for Human Motion Monitoring. <i>ACS Applied Materials & Description</i> , 11, 9405	5- 9 414	175
192	Studies of digital microscopic holography with applications to microstructure testing. <i>Applied Optics</i> , 2001 , 40, 5046-51	1.7	131
191	Characterization of masking layers for deep wet etching of glass in an improved HF/HCl solution. <i>Surface and Coatings Technology</i> , 2005 , 198, 314-318	4.4	128
190	Extremely Deformable, Transparent, and High-Performance Gas Sensor Based on Ionic Conductive Hydrogel. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 2364-2373	9.5	124
189	Highly Stretchable and Transparent Thermistor Based on Self-Healing Double Network Hydrogel. <i>ACS Applied Materials & Double Network Hydrogel</i> . 10, 19097-19105	9.5	119
188	Facile Synthesis of 3D Graphene Flowers for Ultrasensitive and Highly Reversible Gas Sensing. <i>Advanced Functional Materials</i> , 2016 , 26, 7462-7469	15.6	116
187	Improved Selectivity and Sensitivity of Gas Sensing Using a 3D Reduced Graphene Oxide Hydrogel with an Integrated Microheater. <i>ACS Applied Materials & District Materials</i> (2015), 7, 27502-10	9.5	108
186	Aspect-Ratio-Dependent Copper Electrodeposition Technique for Very High Aspect-Ratio Through-Hole Plating. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G552	3.9	107
185	On the wet etching of Pyrex glass. Sensors and Actuators A: Physical, 2008, 143, 154-161	3.9	103
184	Chemically functionalized 3D graphene hydrogel for high performance gas sensing. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8130-8140	13	84
183	3D superhydrophobic reduced graphene oxide for activated NO2 sensing with enhanced immunity to humidity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 478-488	13	84
182	Imaging analysis of digital holography. <i>Optics Express</i> , 2005 , 13, 2444-52	3.3	83
181	From Biological Cilia to Artificial Flow Sensors: Biomimetic Soft Polymer Nanosensors with High Sensing Performance. <i>Scientific Reports</i> , 2016 , 6, 32955	4.9	82
180	Artificial fish skin of self-powered micro-electromechanical systems hair cells for sensing hydrodynamic flow phenomena. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150322	4.1	82

179	Flexible and Surface-Mountable Piezoelectric Sensor Arrays for Underwater Sensing in Marine Vehicles. <i>IEEE Sensors Journal</i> , 2013 , 13, 3918-3925	4	70
178	Biomimetic Survival Hydrodynamics and Flow Sensing. <i>Annual Review of Fluid Mechanics</i> , 2016 , 48, 1-24	22	65
177	Through-wafer electroplated copper interconnect with ultrafine grains and high density of nanotwins. <i>Applied Physics Letters</i> , 2007 , 90, 033111	3.4	63
176	A novel two-degree-of-freedom MEMS electromagnetic vibration energy harvester. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 035020	2	62
175	Fabrication and characterization of fine pitch on-chip copper interconnects for advanced wafer level packaging by a high aspect ratio through AZ9260 resist electroplating. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1078-1086	2	61
174	Microfabricated microneedle with porous tip for drug delivery. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 958-964	2	61
173	Nanofibril scaffold assisted MEMS artificial hydrogel neuromasts for enhanced sensitivity flow sensing. <i>Scientific Reports</i> , 2016 , 6, 19336	4.9	60
172	Aligned carbon nanotubes for through-wafer interconnects. <i>Applied Physics Letters</i> , 2007 , 91, 042108	3.4	59
171	Gate-All-Around Junctionless Nanowire MOSFET With Improved Low-Frequency Noise Behavior. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1752-1754	4.4	57
170	A Ruthenium-Based Multimetal-Contact RF MEMS Switch With a Corrugated Diaphragm. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 1447-1459	2.5	57
169	Strategies in deep wet etching of Pyrex glass. Sensors and Actuators A: Physical, 2007, 133, 395-400	3.9	55
168	Defect-free wet etching through pyrex glass using Cr/Au mask. <i>Microsystem Technologies</i> , 2006 , 12, 935	- 9.3 9	50
167	Stress control in masking layers for deep wet micromachining of Pyrex glass. <i>Sensors and Actuators A: Physical</i> , 2005 , 117, 286-292	3.9	47
166	Design considerations in micromachined silicon microphones. <i>Microelectronics Journal</i> , 2002 , 33, 21-28	1.8	44
165	Micro-machined piezoelectric membrane-based immunosensor array. <i>Biosensors and Bioelectronics</i> , 2008 , 24, 638-43	11.8	42
164	A three-dimensional electret-based micro power generator for low-level ambient vibrational energy harvesting. <i>Journal of Micromechanics and Microengineering</i> , 2014 , 24, 065022	2	41
163	Optimization of sputtered Cr/Au thin film for diaphragm-based MEMS applications. <i>Thin Solid Films</i> , 2009 , 517, 4921-4925	2.2	41
162	Sandwich-structured two-dimensional MEMS electret power generator for low-level ambient vibrational energy harvesting. <i>Sensors and Actuators A: Physical</i> , 2015 , 228, 95-103	3.9	40

161	Touch at a distance sensing: lateral-line inspired MEMS flow sensors. <i>Bioinspiration and Biomimetics</i> , 2014 , 9, 046011	2.6	40
160	High Sensitivity, Miniature, Full 2-D Anemometer Based on MEMS Hot-Film Sensors. <i>IEEE Sensors Journal</i> , 2013 , 13, 1914-1920	4	40
159	Sensitivity-improved silicon condenser microphone with a novel single deeply corrugated diaphragm. <i>Sensors and Actuators A: Physical</i> , 2001 , 92, 257-262	3.9	40
158	Giant Flexoelectric Polarization in a Micromachined Ferroelectric Diaphragm. <i>Advanced Functional Materials</i> , 2013 , 23, 124-132	15.6	38
157	Fabrication of piezoelectric MEMS devices-from thin film to bulk PZT wafer. <i>Journal of Electroceramics</i> , 2010 , 24, 25-32	1.5	38
156	Design and implementation of an out-of-plane electrostatic vibration energy harvester with dual-charged electret plates. <i>Microelectronic Engineering</i> , 2015 , 135, 32-37	2.5	37
155	Structure and migration of (112) step on (111) twin boundaries in nanocrystalline copper. <i>Journal of Applied Physics</i> , 2008 , 104, 113717	2.5	37
154	Enhancement of electrokinetically driven microfluidic T-mixer using frequency modulated electric field and channel geometry effects. <i>Electrophoresis</i> , 2009 , 30, 3144-52	3.6	36
153	Micromachined thick film piezoelectric ultrasonic transducer array. <i>Sensors and Actuators A: Physical</i> , 2006 , 130-131, 485-490	3.9	36
152	Characterization of a nanocrystalline NiTiHf high temperature shape memory alloy thin film. <i>Scripta Materialia</i> , 2005 , 52, 983-987	5.6	36
151	Fabrication and characterization of piezoelectric micromachined ultrasonic transducers with thick composite PZT films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005 , 52, 2289-97	3.2	35
150	MEMS sensors for assessing flow-related control of an underwater biomimetic robotic stingray. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 036008	2.6	34
149	Acoustic transducers with a perforated damping backplate based on PZT/silicon wafer bonding technique. <i>Sensors and Actuators A: Physical</i> , 2009 , 149, 277-283	3.9	34
148	Fabrication of Si microstructures using focused ion beam implantation and reactive ion etching. Journal of Micromechanics and Microengineering, 2008 , 18, 035003	2	34
147	High Aspect Ratio Vertical Through-Vias for 3D MEMS Packaging Applications by Optimized Three-Step Deep RIE. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H85	3.9	34
146	Mechanical and microstructural characterization of high aspect ratio through-wafer electroplated copper interconnects. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1749-1757	2	33
145	Enhanced electrostatic vibrational energy harvesting using integrated opposite-charged electrets. Journal of Micromechanics and Microengineering, 2017 , 27, 044002	2	32
144	Soft polymer membrane micro-sensor arrays inspired by the mechanosensory lateral line on the blind cavefish. <i>Journal of Intelligent Material Systems and Structures</i> , 2015 , 26, 38-46	2.3	32

(2003-2019)

143	A flyover style microfluidic chip for highly purified magnetic cell separation. <i>Biosensors and Bioelectronics</i> , 2019 , 129, 175-181	11.8	31
142	Dynamic characterization of MEMS diaphragm using time averaged in-line digital holography. <i>Optics Communications</i> , 2007 , 280, 285-290	2	31
141	Silicon nanopillars based 3D stacked microchannel heat sinks concept for enhanced heat dissipation applications in MEMS packaging. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 685-694	3.9	31
140	Effect of SF6flow rate on the etched surface profile and bottom grass formation in deep reactive ion etching process. <i>Journal of Physics: Conference Series</i> , 2006 , 34, 577-582	0.3	31
139	Study of surface treatment processes for improvement in the wettability of silicon-based materials used in high aspect ratio through-via copper electroplating. <i>Applied Surface Science</i> , 2007 , 253, 8637-864	46 ⁷	30
138	Fabrication of High Aspect Ratio 35 th Pitch Through-Wafer Copper Interconnects by Electroplating for 3-D Wafer Stacking. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, G305		30
137	Micro-piezoelectric immunoassay chip for simultaneous detection of Hepatitis B virus and Fetoprotein. <i>Sensors and Actuators B: Chemical</i> , 2011 , 151, 370-376	8.5	29
136	Numerical and Experimental Investigation of Thermomechanical Deformation in High-Aspect-Ratio Electroplated Through-Silicon Vias. <i>Journal of the Electrochemical Society</i> , 2008 , 155, H981	3.9	29
135	Piezoelectric thick films and their application in MEMS. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 3759-3764	6	29
134	Preparation of BST ferroelectric thin film by metal organic decomposition for infrared sensor. Sensors and Actuators A: Physical, 2004 , 110, 371-377	3.9	29
133	Micromachined ultrasonic transducers and arrays based on piezoelectric thick film. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 91, 107-117	2.6	28
132	Optimization of an amorphous silicon mask PECVD process for deep wet etching of Pyrex glass. <i>Surface and Coatings Technology</i> , 2005 , 192, 43-47	4.4	25
131	Ultrasound radiating performances of piezoelectric micromachined ultrasonic transmitter. <i>Applied Physics Letters</i> , 2005 , 86, 033508	3.4	25
130	On-Wafer Microstrip Meander-Line Slow-Wave Structure at Ka-Band. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2142-2148	2.9	23
129	Void formation over limiting current density and impurity analysis of TSV fabricated by constant-current pulse-reverse modulation. <i>Microelectronics Reliability</i> , 2013 , 53, 1943-1953	1.2	23
128	Analytical modeling for bulk-micromachined condenser microphones. <i>Journal of the Acoustical Society of America</i> , 2006 , 120, 750-761	2.2	23
127	A study on the viscous damping effect for diaphragm-based acoustic MEMS applications. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 2253-2263	2	23
126	Patterning of diamond microstructures on Si substrate by bulk and surface micromachining. <i>Journal of Materials Processing Technology</i> , 2003 , 132, 73-81	5.3	23

125	Self-assembled ferrofluid lithography: patterning micro and nanostructures by controlling magnetic nanoparticles. <i>Nanotechnology</i> , 2009 , 20, 495301	3.4	22
124	A MEMS Device for Studying the Friction Behavior of Micromachined Sidewall Surfaces. <i>Journal of Microelectromechanical Systems</i> , 2008 , 17, 921-933	2.5	21
123	Phase transformation in NiTiHf shape memory alloy thin films. <i>Thin Solid Films</i> , 2008 , 516, 5393-5396	2.2	21
122	Control of stress in highly doped polysilicon multi-layer diaphragm structure. <i>Surface and Coatings Technology</i> , 2001 , 141, 96-102	4.4	21
121	Flexible liquid crystal polymer-based electrochemical sensor for in-situ detection of zinc(II) in seawater. <i>Mikrochimica Acta</i> , 2017 , 184, 3007-3015	5.8	20
120	d33 mode piezoelectric diaphragm based acoustic transducer with high sensitivity. <i>Sensors and Actuators A: Physical</i> , 2013 , 189, 93-99	3.9	20
119	Critical electrode size in measurement ofd33coefficient of films via spatial distribution of piezoelectric displacement. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 035306	3	19
118	Influence of deep RIE tolerances on comb-drive actuator performance. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 970-976	3	19
117	Deep implantation of nitrogen into GaAs for selective three-dimensional microstructuring. <i>Journal of Applied Physics</i> , 1992 , 72, 2700-2704	2.5	19
116	Biomimetic hydrogel-CNT network induced enhancement of fluid-structure interactions for ultrasensitive nanosensors. <i>NPG Asia Materials</i> , 2017 , 9, e440-e440	10.3	18
115	Miniaturized chemical sensor with bio-inspired micropillar working electrode array for lead detection. <i>Sensors and Actuators B: Chemical</i> , 2016 , 233, 249-256	8.5	18
114	\$Ka\$ -Band Symmetric V-Shaped Meander-Line Slow Wave Structure. <i>IEEE Transactions on Plasma Science</i> , 2019 , 47, 4650-4657	1.3	17
114		1.3 3.9	17 17
	A wafer-scale encapsulated RF MEMS switch with a stress-reduced corrugated diaphragm. Sensors		
113	A wafer-scale encapsulated RF MEMS switch with a stress-reduced corrugated diaphragm. Sensors and Actuators A: Physical, 2009, 151, 237-243	3.9	17
113	A wafer-scale encapsulated RF MEMS switch with a stress-reduced corrugated diaphragm. Sensors and Actuators A: Physical, 2009, 151, 237-243 PVDF Nanofiber Sensor for Vibration Measurement in a String. Sensors, 2019, 19, Crocodile-inspired dome-shaped pressure receptors for passive hydrodynamic sensing.	3.9	17
113 112 111	A wafer-scale encapsulated RF MEMS switch with a stress-reduced corrugated diaphragm. Sensors and Actuators A: Physical, 2009, 151, 237-243 PVDF Nanofiber Sensor for Vibration Measurement in a String. Sensors, 2019, 19, Crocodile-inspired dome-shaped pressure receptors for passive hydrodynamic sensing. Bioinspiration and Biomimetics, 2016, 11, 056007 Development of a MEMS-based electrochemical aptasensor for norovirus detection. Micro and	3.9 3.8 2.6	17 16 16

(2015-2006)

107	Fabrication and characterization of DRIE-micromachined electrostatic microactuators for hard disk drives. <i>Microsystem Technologies</i> , 2006 , 13, 11-19	1.7	14	
106	Cupula-Inspired Hyaluronic Acid-Based Hydrogel Encapsulation to Form Biomimetic MEMS Flow Sensors. <i>Sensors</i> , 2017 , 17,	3.8	13	
105	Effect of Clamping Ring Materials and Chuck Temperature on the Formation of Silicon Nanograss in Deep RIE. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G771	3.9	13	
104	Highlighting the uniqueness in dielectrophoretic enrichment of circulating tumor cells. <i>Electrophoresis</i> , 2019 , 40, 1457-1477	3.6	12	
103	MEMS Tunable Diffraction Grating for Spaceborne Imaging Spectroscopic Applications. <i>Sensors</i> , 2017 , 17,	3.8	12	
102	Growth of horizontally aligned dense carbon nanotubes from trench sidewalls. <i>Nanotechnology</i> , 2011 , 22, 265614	3.4	12	
101	Membrane microcantilever arrays fabrication with PZT thin films for nanorange movement. <i>Microsystem Technologies</i> , 2005 , 11, 1121-1126	1.7	12	
100	Design of a Sheet-Beam Electron-Optical System for a Microfabricated \$W\$ -Band Traveling-Wave Tube Using a Cold Cathode. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3725-3732	2.9	12	
99	Localized synthesis of horizontally suspended carbon nanotubes. <i>Carbon</i> , 2013 , 57, 259-266	10.4	11	
98	Tunable piezoresistance and noise in gate-all-around nanowire field-effect-transistor. <i>Applied Physics Letters</i> , 2012 , 100, 063106	3.4	11	
97	Large-Area Sub-Wavelength Optical Patterning via Long-Range Ordered Polymer Lens Array. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> 16368-78	9.5	10	
96	Disk-like nanojets with steerable trajectory using platinum nozzle nanoengines. <i>RSC Advances</i> , 2016 , 6, 3399-3405	3.7	10	
95	The stress analysis of Si MEMS devices by micro-Raman technique. <i>Thin Solid Films</i> , 2009 , 517, 4905-490	082.2	10	
94	Deformation analysis in microstructures and micro-devices. <i>Microelectronics Reliability</i> , 2007 , 47, 2226-	2 <u>23</u> 0	10	
93	Reduction of diffraction effect for fabrication of very high aspect ratio microchannels in SU-8 over large area by soft cushion technology. <i>Microsystem Technologies</i> , 2005 , 11, 519-525	1.7	10	
92	Oscillate Boiling from Electrical Microheaters. <i>Physical Review Applied</i> , 2018 , 10,	4.3	10	
91	A New Self-Powered Sensor Using the Radial Field Piezoelectric Diaphragm in d Mode for Detecting Underwater Disturbances. <i>Sensors</i> , 2019 , 19,	3.8	8	
90	Production of centimeter-scale gradient patterns by graded elastomeric tip array. <i>ACS Applied Materials & Amp; Interfaces</i> , 2015 , 7, 6991-7000	9.5	8	

89	Displacement and resonance behaviors of a piezoelectric diaphragm driven by a double-sided spiral electrode. <i>Smart Materials and Structures</i> , 2012 , 21, 055001	3.4	8
88	Elastic MEMS probe card based on the PDMS substrate. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 055038	2	8
87	Electrochemically Fabricated High-Barrier Schottky Contacts on n-InP and Their Application for Metal-Semiconductor-Metal Photodetectors. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1945-19	94 8 9	8
86	Enhanced visualization of fine needles under sonographic guidance using a MEMS actuator. <i>Sensors</i> , 2015 , 15, 3107-15	3.8	7
85	Whisker-like geometries and their force reduction properties 2013,		7
84	Growth mechanism of carbon nanotubes: a nano Czochralski model. <i>Nanoscale Research Letters</i> , 2012 , 7, 356	5	7
83	Microcantilever sensors with embedded piezoresistive transistor read-out: Design and characterization. <i>Sensors and Actuators A: Physical</i> , 2011 , 171, 178-185	3.9	7
82	Effect of improved wettability of silicon-based materials with electrolyte for void free copper deposition in high aspect ratio through-vias. <i>Thin Solid Films</i> , 2008 , 516, 5194-5200	2.2	7
81	Measurement of longitudinal piezoelectric coefficient of film with scanning-modulated interferometer. <i>Sensors and Actuators A: Physical</i> , 2006 , 128, 327-332	3.9	7
80	A new sensor inspired by the lateral-line system of fish using the self-powered d33 mode piezoelectric diaphragm for hydrodynamic sensing. <i>Mechanical Systems and Signal Processing</i> , 2020 , 141, 106476	7.8	7
79	Engineering biomimetic hair bundle sensors for underwater sensing applications 2018,		7
78	Spiral electrode d33 mode piezoelectric diaphragm combined with proof mass as energy harvester. Journal of Micromechanics and Microengineering, 2015 , 25, 035004	2	6
77	Biotin-streptavidin binding interactions of dielectric filled silicon bulk acoustic resonators for smart label-free biochemical sensor applications. <i>Sensors</i> , 2014 , 14, 4585-98	3.8	6
76	Piezoresistive Sensing Performance of Junctionless Nanowire FET. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1759-1761	4.4	6
75	Micromachining of three-dimensional GaAs membrane structures using high-energy nitrogen implantation. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 35-39	2	6
74	Designing and modelling of a grating-based displacement micro-transducer. <i>Nanotechnology</i> , 2001 , 12, 308-315	3.4	6
73	Design and Fabrication of a Stretchable Circuit Board for Wireless Posture Measurement. <i>IEEE Electron Device Letters</i> , 2017 , 38, 399-402	4.4	5
72	Hydrogen-peroxide-fuelled platinumBickelBU-8 microrocket with steerable propulsion using an eccentric nanoengine. <i>RSC Advances</i> , 2016 , 6, 102513-102518	3.7	5

(2001-2013)

71	Proof mass effects on spiral electrode d33 mode piezoelectric diaphragm-based energy harvester 2013 ,		5
70	Flexible Hydrogel Capacitive Pressure Sensor for Underwater Applications. <i>Proceedings (mdpi)</i> , 2017 , 1, 360	0.3	5
69	Production of centimeter-scale sub-wavelength nanopatterns by controlling the light path of adhesive photomasks. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6796-6808	7.1	5
68	Mechanical and Microstructural Characterization of Through-Silicon Via Fabricated with Constant Current Pulse-Reverse Modulation. <i>Journal of the Electrochemical Society</i> , 2010 , 157, D323	3.9	5
67	Modified Skvor/Starr approach in the mechanical-thermal noise analysis of condenser microphone. Journal of the Acoustical Society of America, 2009, 126, 2301-5	2.2	5
66	Synthesis of regular nano-pitched carbon nanotube array by using nanosphere lithography for interconnect applications. <i>Materials Letters</i> , 2009 , 63, 867-869	3.3	5
65	Fabrication of high aspect ratio 35 /spl mu/m pitch interconnects for next generation 3-D wafer level packaging by through-wafer copper electroplating		5
64	Study on convex-corner undercutting formed by masked-maskless etching in aqueous KOH. <i>Journal of Micromechanics and Microengineering</i> , 2000 , 10, 309-313	2	5
63	Nanoparticles-Modified Chemical Sensor Fabricated on a Flexible Polymer Substrate for Cadmium(II) Detection. <i>Polymers</i> , 2018 , 10,	4.5	5
62	2014,		4
62	2014, Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009, 156, K23	3.9	4
	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect	3.9	
61	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K23 Gate-bias-controlled sensitivity and SNR enhancement in a nanowire FET pressure sensor. <i>Journal</i>		
61	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K23 Gate-bias-controlled sensitivity and SNR enhancement in a nanowire FET pressure sensor. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 105007 Friction characteristics of the curved sidewall surfaces of a rotary MEMS device in oscillating	2	4
616059	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K23 Gate-bias-controlled sensitivity and SNR enhancement in a nanowire FET pressure sensor. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 105007 Friction characteristics of the curved sidewall surfaces of a rotary MEMS device in oscillating motion. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 065020 High-energy ion implantation: an alternative technology for micromachining three-dimensional	2	4
61 60 59 58	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K23 Gate-bias-controlled sensitivity and SNR enhancement in a nanowire FET pressure sensor. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 105007 Friction characteristics of the curved sidewall surfaces of a rotary MEMS device in oscillating motion. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 065020 High-energy ion implantation: an alternative technology for micromachining three-dimensional GaAs structures. <i>Sensors and Actuators A: Physical</i> , 2004 , 114, 505-509	2 2 3.9	4 4
6160595857	Investigation of Carbon Nanotube Growth on Multimetal Layers for Advanced Interconnect Applications in Microelectronic Devices. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K23 Gate-bias-controlled sensitivity and SNR enhancement in a nanowire FET pressure sensor. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 105007 Friction characteristics of the curved sidewall surfaces of a rotary MEMS device in oscillating motion. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 065020 High-energy ion implantation: an alternative technology for micromachining three-dimensional GaAs structures. <i>Sensors and Actuators A: Physical</i> , 2004 , 114, 505-509 Digital microholointerferometer: development and validation. <i>Optical Engineering</i> , 2003 , 42, 2218	2 2 3.9	4 4 4

53	MEMS artificial neuromast arrays for hydrodynamic control of soft-robots 2016,		4
52	Self-Steerable Propulsion of Disk-Like Micro-Craft with Dual Off-Center Nanoengines. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1657-1662	6.1	4
51	Harbor seal whisker inspired self-powered piezoelectric sensor for detecting the underwater flow angle of attack and velocity. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 172, 108866	4.6	4
50	Three-dimensional hierarchical and superhydrophobic graphene gas sensor with good immunity to humidity 2018 ,		4
49	Electrospun polyvinylidene fluoride nanofiber mats for self-powered sensors 2017,		3
48	Biosensors based on flexural mode piezo-diaphragm 2008,		3
47	Modeling of Carbon Nanotube Vertical Interconnects as Transmission Lines		3
46	DYNAMIC BEHAVIORS OF HIGH-G MEMS ACCELEROMETER INCORPORATED WITH NOVEL MICRO-FLEXURES. <i>International Journal of Software Engineering and Knowledge Engineering</i> , 2005 , 15, 225-230	1	3
45	Characterization of microstructures with in-line digital micro-holo-interferometry 2001 , 4275, 53		3
44	In-phase synchronization between two auto-oscillating bubbles. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	3
43	MEMS/NEMS-Enabled Energy Harvesters as Self-Powered Sensors. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019 , 1-30	0.4	3
42	Characterization on Three-Dimensional Trajectory of Disk-Like Gold-Nickel-Platinum Nanomotor Using Digital Holographic Imaging. <i>ChemistrySelect</i> , 2018 , 3, 9634-9640	1.8	3
41	Polymer MEMS sensor for flow monitoring in biomedical device applications 2017,		2
40	Facile growth of horizontally suspended carbon nanotubes. <i>Materials Letters</i> , 2012 , 81, 165-168	3.3	2
39	Hemispherical array of sensors with contractively wrapped polymer petals for flow sensing. <i>Smart Materials and Structures</i> , 2017 , 26, 115008	3.4	2
38	Through-silicon via fabrication with pulse-reverse electroplating for high density nanoelectronics 2013 ,		2
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