

Liwei Lin

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.

228 papers	9,199 citations	48 h-index	90 g-index
263 ext. papers	10,997 ext. citations	7.1 avg, IF	6.57 L-index

#	Paper	IF	Citations
228	Soft magnetic composites for highly deformable actuators by four-dimensional electrohydrodynamic printing. <i>Composites Part B: Engineering</i> , 2022 , 231, 109596	10	4
227	Gold nanoparticle based plasmonic sensing for the detection of SARS-CoV-2 nucleocapsid proteins. <i>Biosensors and Bioelectronics</i> , 2022 , 195, 113669	11.8	10
226	Laser-Sculptured Hierarchical Spinous Structures for Ultra-High-Sensitivity Iontronic Sensors with a Broad Operation Range.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
225	An Improved Lumped Element Model for Circular-shape pMUTs 2022 , 1-1		1
224	Soldering by Local Heating 2021 , 361-375		0
223	Electrostatic footpads enable agile insect-scale soft robots with trajectory control. <i>Science Robotics</i> , 2021 , 6,	18.6	14
222	A 36-Channel Auto-Calibrated Front-End ASIC for a pMUT-Based Miniaturized 3-D Ultrasound System. <i>IEEE Journal of Solid-State Circuits</i> , 2021 , 56, 1910-1923	5.5	6
221	Improved Ring-Down Time and Axial Resolution of pMUTs via a Phase-Shift Excitation Scheme 2021 ,		4
220	A 5-mm Untethered Crawling Robot via Self-Excited Electrostatic Vibration. <i>IEEE Transactions on Robotics</i> , 2021 , 1-13	6.5	2
219	2021 ,		1
218	Electrically Adaptive and Shape-Changeable Invertible Microlens. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10397-10408	9.5	4
217	Electrohydrodynamic 3D printing of orderly carbon/nickel composite network as supercapacitor electrodes. <i>Journal of Materials Science and Technology</i> , 2021 , 82, 135-143	9.1	5
216	Bimorph Pinned Piezoelectric Micromachined Ultrasonic Transducers for Space Imaging Applications. <i>Journal of Microelectromechanical Systems</i> , 2021 , 30, 650-658	2.5	3
215	Moisture-induced autonomous surface potential oscillations for energy harvesting. <i>Nature Communications</i> , 2021 , 12, 5287	17.4	6
214	A Pulsed Wave Doppler Ultrasound Blood Flowmeter by PMUTs. <i>Journal of Microelectromechanical Systems</i> , 2021 , 30, 680-682	2.5	3
213	A low voltage-powered soft electromechanical stimulation patch for haptics feedback in human-machine interfaces. <i>Biosensors and Bioelectronics</i> , 2021 , 193, 113616	11.8	4
212	2021 ,		1

211	Facile Fabrication of Multilayer Stretchable Electronics via a Two-mode Mechanical Cutting Process.. <i>ACS Nano</i> , 2021 ,	16.7	2
210	2020 ,		4
209	Wearable breath monitoring via a hot-film/calorimetric airflow sensing system. <i>Biosensors and Bioelectronics</i> , 2020 , 163, 112288	11.8	13
208	An electronic nose using a single graphene FET and machine learning for water, methanol, and ethanol. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 50	7.7	49
207	NO2 gas sensors based on CVD tungsten diselenide monolayer. <i>Applied Surface Science</i> , 2020 , 529, 147169	16.7	31
206	Influence of chamber design on the gas sensing performance of graphene field-effect-transistor. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	2
205	Piezoelectric Micromachined Ultrasonic Transducers With Pinned Boundary Structure. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 585-591	2.5	10
204	Chemical vapor deposition of 3D graphene/carbon nanotubes networks for hybrid supercapacitors. <i>Sensors and Actuators A: Physical</i> , 2020 , 304, 111886	3.9	15
203	Pulsed Wave Doppler Ultrasound Using 3.7 MHz Pmutts Toward Wearable Blood Flow Measurements 2020 ,		3
202	Functional gas sensing nanomaterials: A panoramic view. <i>Applied Physics Reviews</i> , 2020 , 7, 021301	17.3	170
201	Stereolithography (SLA) 3D printing of ascorbic acid loaded hydrogels: A controlled release study. <i>International Journal of Pharmaceutics</i> , 2020 , 584, 119428	6.5	44
200	3D printed microfluidic devices for circulating tumor cells (CTCs) isolation. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111900	11.8	34
199	A Naturally Integrated Smart Textile for Wearable Electronics Applications. <i>Advanced Materials Technologies</i> , 2020 , 5, 1900781	6.8	20
198	3D microfluidic gradient generator for combination antimicrobial susceptibility testing. <i>Microsystems and Nanoengineering</i> , 2020 , 6, 92	7.7	9
197	Finger-powered fluidic actuation and mixing via MultiJet 3D printing. <i>Lab on A Chip</i> , 2020 , 20, 3375-3385	7.2	11
196	High-Accuracy Quartz Crystal Resonance DP Instrument. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8026-8033	8.9	1
195	Electromagnetic interference shielding with laser induced molybdenum carbide-graphene paper. <i>Materials Letters</i> , 2020 , 271, 127784	3.3	7
194	A Fast-Moving Micro Crawling Robot with Direct Electromagnetic Driving Mechanism 2019 ,		3

193	Fully Transparent Piezoelectric Ultrasonic Transducer with 3D Printed Substrate 2019 ,		6
192	Wafer-Scale Fabrication of Sub-10 nm TiO-GaO n-p Heterojunctions with Efficient Photocatalytic Activity by Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2019 , 14, 163	5	9
191	Self-constructed side-by-side nanofiber photocatalyst via oppositely charged electrospinning and its photocatalytic degradation of rhodamine B. <i>New Journal of Chemistry</i> , 2019 , 43, 15405-15412	3.6	5
190	Human pulses reveal health conditions by a piezoelectret sensor via the approximate entropy analysis. <i>Nano Energy</i> , 2019 , 58, 528-535	17.1	17
189	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. <i>Mikrochimica Acta</i> , 2019 , 186, 418	5.8	57
188	Superior visible light photocatalysis and low-operating temperature VOCs sensor using cubic Ag(0)-MoS ₂ loaded g-CN 3D porous hybrid. <i>Applied Materials Today</i> , 2019 , 16, 193-203	6.6	40
187	A Flexible Piezoelectret Actuator/Sensor Patch for Mechanical Human-Machine Interfaces. <i>ACS Nano</i> , 2019 , 13, 7107-7116	16.7	76
186	Metallo-Hydrogel-Assisted Synthesis and Direct Writing of Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1807612	15.6	7
185	Atomic Layer Deposition of TiO ₂ Nanocoatings on ZnO Nanowires for Improved Photocatalytic Stability. <i>International Journal of Photoenergy</i> , 2019 , 2019, 1-8	2.1	3
184	Largely Enhancing Luminous Efficacy, Color-Conversion Efficiency, and Stability for Quantum-Dot White LEDs Using the Two-Dimensional Hexagonal Pore Structure of SBA-15 Mesoporous Particles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18808-18816	9.5	27
183	Magnetic-Based Indoor Localization Using Smartphone via a Fusion Algorithm. <i>IEEE Sensors Journal</i> , 2019 , 19, 6477-6485	4	31
182	Laser-sculptured ultrathin transition metal carbide layers for energy storage and energy harvesting applications. <i>Nature Communications</i> , 2019 , 10, 3112	17.4	48
181	Insect-scale fast moving and ultrarobust soft robot. <i>Science Robotics</i> , 2019 , 4,	18.6	137
180	2019 ,		1
179	2019 ,		1
178	Pinned Boundary Piezoelectric Micromachined Ultrasonic Transducers 2019 ,		2
177	Mass Loading-Independent Energy Storage with Reduced Graphene Oxide and Carbon Fiber. <i>ChemElectroChem</i> , 2019 , 6, 6009-6015	4.3	6
176	Shoepad nanogenerator based on electrospun PVDF nanofibers. <i>Microsystem Technologies</i> , 2019 , 25, 3151-3156	1.7	12

175	Microfluidic dielectrophoresis illuminates the relationship between microbial cell envelope polarizability and electrochemical activity. <i>Science Advances</i> , 2019 , 5, eaat5664	14.3	36
174	High-Voltage Supercapacitors Based on Aqueous Electrolytes. <i>ChemElectroChem</i> , 2019 , 6, 976-988	4.3	79
173	Defect-Induced Gas Adsorption on Graphene Transistors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701640	4.6	20
172	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. <i>Mikrochimica Acta</i> , 2018 , 185, 213	5.8	350
171	Ultrafast Growth of Large 2D Silver Nanosheets by Highly Ordered Biological Template at Air/Gel Interface. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701491	4.6	15
170	Lead iodide nanosheets for piezoelectric energy conversion and strain sensing. <i>Nano Energy</i> , 2018 , 49, 7-13	17.1	43
169	Direct Synthesis of a Covalently Self-Assembled Peptide Nanogel from a Tyrosine-Rich Peptide Monomer and Its Biomineralized Hybrids. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5630-5634	16.4	22
168	Direct Synthesis of a Covalently Self-Assembled Peptide Nanogel from a Tyrosine-Rich Peptide Monomer and Its Biomineralized Hybrids. <i>Angewandte Chemie</i> , 2018 , 130, 5732-5736	3.6	3
167	Real-time and high accuracy frequency measurements for intermediate frequency narrowband signals. <i>Review of Scientific Instruments</i> , 2018 , 89, 014704	1.7	1
166	3D printed microfluidics and microelectronics. <i>Microelectronic Engineering</i> , 2018 , 189, 52-68	2.5	124
165	Microscopic mechanisms of deformation transfer in high dynamic range branched nanoparticle deformation sensors. <i>Nature Communications</i> , 2018 , 9, 1155	17.4	3
164	Model, Design, and Testing of Field Mill Sensors for Measuring Electric Fields Under High-Voltage Direct-Current Power Lines. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 608-615	8.9	36
163	Human Pulse Diagnosis for Medical Assessments Using a Wearable Piezoelectret Sensing System. <i>Advanced Functional Materials</i> , 2018 , 28, 1803413	15.6	92
162	Biomimetic, Flexible, and Self-Healable Printed Silver Electrode by Spontaneous Self-Layering Phenomenon of a Gelatin Scaffold. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25666-25672	9.5	13
161	High-Voltage Flexible Microsupercapacitors Based on Laser-Induced Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26357-26364	9.5	49
160	Breathable 3D Supercapacitors Based on Activated Carbon Fiber Veil. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800209	6.8	14
159	A DC drive electrostatic comb actuator based on self-excited vibration 2018 ,		1
158	A QCM Dew Point Sensor With Active Temperature Control Using Thermally Conductive Electrodes. <i>IEEE Sensors Journal</i> , 2018 , 18, 5715-5722	4	1

157	A New Type of Bionics Based Piezoelectric Heartbeat Sensor Used in Pulse-Taking for Health Warning 2018 ,		1
156	A comprehensive review on piezoelectric energy harvesting technology: Materials, mechanisms, and applications. <i>Applied Physics Reviews</i> , 2018 , 5, 041306	17.3	316
155	Asymmetric charge transfer phenomenon and its mechanism in self-excited electrostatic actuator 2018 ,		3
154	Kirigami-inspired, highly stretchable micro-supercapacitor patches fabricated by laser conversion and cutting. <i>Microsystems and Nanoengineering</i> , 2018 , 4, 36	7.7	42
153	Hydrogen Electrocatalysis: Self-Assembly of Large-Area 2D Polycrystalline Transition Metal Carbides for Hydrogen Electrocatalysis (Adv. Mater. 50/2018). <i>Advanced Materials</i> , 2018 , 30, 1870385	24	2
152	Health Monitoring: Human Pulse Diagnosis for Medical Assessments Using a Wearable Piezoelectret Sensing System (Adv. Funct. Mater. 40/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870292	15.6	0
151	Self-Assembly of Large-Area 2D Polycrystalline Transition Metal Carbides for Hydrogen Electrocatalysis. <i>Advanced Materials</i> , 2018 , 30, e1805188	24	59
150	Energy Harvesters Incorporating Silk from the Taiwan-Native Spider <i>Nephila pilipes</i> . <i>ACS Applied Energy Materials</i> , 2018 ,	6.1	2
149	Au-TiO-Loaded Cubic g-CN Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34087-34097	9.5	102
148	Energy Harvester and Cell Proliferation from Biocompatible PMLG Nanofibers Prepared Using Near-Field Electrospinning and Electro spray Technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 156-164	1.3	4
147	Sonochemical and mechanical stirring synthesis of liquid metal nanoglass structures for low-cost SERS substrates. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1301-1310	2.3	8
146	Functional Carbon Nanofibers with Semi-Embedded Titanium Oxide Particles via Electrospinning. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800102	4.8	5
145	Laser-Induced Molybdenum Carbide-Graphene Composites for 3D Foldable Paper Electronics. <i>Advanced Materials</i> , 2018 , 30, e1800062	24	91
144	2018 ,		4
143	Paper Electronics: Laser-Induced Molybdenum Carbide-Graphene Composites for 3D Foldable Paper Electronics (Adv. Mater. 26/2018). <i>Advanced Materials</i> , 2018 , 30, 1870192	24	2
142	A Wireless Passive Pressure and Temperature Sensor via a Dual LC Resonant Circuit in Harsh Environments. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 351-356	2.5	39
141	Characterizing Photon Reabsorption in Quantum Dot-Polymer Composites for Use as Displacement Sensors. <i>ACS Nano</i> , 2017 , 11, 2075-2084	16.7	24
140	Polymeric Nanofibers with Ultrahigh Piezoelectricity via Self-Orientation of Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 1901-1910	16.7	85

139	Synthesis of Single-Layer Graphene on Nickel Using a Droplet CVD Process. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600783	4.6	15
138	Flexible micro-supercapacitors prepared using direct-write nanofibers. <i>RSC Advances</i> , 2017 , 7, 11724-11731	3.7	21
137	A fast-moving electrostatic crawling insect 2017 ,		19
136	A 1000-Volt planar micro-supercapacitor by direct-write laser engraving of polymers 2017 ,		4
135	A silicon carbide differential output pressure sensor by concentrically matched capacitance 2017 ,		3
134	Broadband ring-shaped PMUTS based on an acoustically induced resonance 2017 ,		13
133	Energy harvesting from cerebrospinal fluid pressure fluctuations for self-powered neural implants. <i>Biomedical Microdevices</i> , 2017 , 19, 32	3.7	7
132	Flexible PET/EVA-based piezoelectret generator for energy harvesting in harsh environments. <i>Nano Energy</i> , 2017 , 37, 268-274	17.1	49
131	Self-Assembly of Silver Nanowire Ring Structures Driven by the Compressive Force of a Liquid Droplet. <i>Langmuir</i> , 2017 , 33, 3367-3372	4	5
130	Multichip LED Modules With V-Groove Surfaces for Light Extraction Efficiency Enhancements Considering Roughness Scattering. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 182-188	2.9	13
129	Wearable woven supercapacitor fabrics with high energy density and load-bearing capability. <i>Scientific Reports</i> , 2017 , 7, 14324	4.9	36
128	Ultrathin Coaxial Fiber Supercapacitors Achieving High Energy and Power Densities. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39391-39398	9.5	31
127	A Review of On-Chip Micro Supercapacitors for Integrated Self-Powering Systems. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 949-965	2.5	79
126	A Solar-Blind UV Detector Based on Graphene-Microcrystalline Diamond Heterojunctions. <i>Small</i> , 2017 , 13, 1701328	11	39
125	Untethered flight of a tiny balloon via self-sustained electrostatic actuators 2017 ,		1
124	High-Performance PVC Gel for Adaptive Micro-Lenses with Variable Focal Length. <i>Scientific Reports</i> , 2017 , 7, 2068	4.9	36
123	On the performance of array antennas with mechanical distortion errors considering element numbers. <i>International Journal of Electronics</i> , 2017 , 104, 462-484	1.2	17
122	Fabrication of Si-based three-dimensional microbatteries: A review. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 459-476	3.3	21

121	3D Printing-Based Integrated Water Quality Sensing System. <i>Sensors</i> , 2017 , 17,	3.8	17
120	Rapid assembly of multilayer microfluidic structures via 3D-printed transfer molding and bonding. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16063	7.7	56
119	Correction Bimorph Piezoelectric Micromachined Ultrasonic Transducers[Apr 16 326-336]. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 579-580	2.5	
118	ZIF-8 Cooperating in TiN/Ti/Si Nanorods as Efficient Anodes in Micro-Lithium-Ion-Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3992-9	9.5	27
117	Bimorph Piezoelectric Micromachined Ultrasonic Transducers. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 326-336	2.5	39
116	High Stability Induced by the TiN/Ti Interlayer in Three-Dimensional Si/Ge Nanorod Arrays as Anode in Micro Lithium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7806-10	9.5	15
115	Equivalent Circuit Models for Large Arrays of Curved and Flat Piezoelectric Micromachined Ultrasonic Transducers. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2016 , 63, 432-47	3.2	24
114	ALD titanium nitride on vertically aligned carbon nanotube forests for electrochemical supercapacitors. <i>Sensors and Actuators A: Physical</i> , 2016 , 240, 160-166	3.9	32
113	In vitro cardiomyocyte-driven biogenerator based on aligned piezoelectric nanofibers. <i>Nanoscale</i> , 2016 , 8, 7278-86	7.7	26
112	Dual-electrode bimorph pmut arrays for handheld therapeutic medical devices 2016 ,		3
111	High aspect-ratio 3D microstructures via near-field electrospinning for energy storage applications 2016 ,		4
110	Highly Efficient Photocatalysts for Surface Hybridization of TiO Nanofibers with Carbon Films. <i>ChemPlusChem</i> , 2015 , 80, 827-831	2.8	5
109	Batteries: High Performance 3D Si/Ge Nanorods Array Anode Buffered by TiN/Ti Interlayer for Sodium-Ion Batteries (Adv. Funct. Mater. 9/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1385-1385	15.6	1
108	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16860-16866	13	75
107	Highly active ruthenium oxide coating via ALD and electrochemical activation in supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15568-15575	13	88
106	Near-field electrospinning enhances the energy harvesting of hollow PVDF piezoelectric fibers. <i>RSC Advances</i> , 2015 , 5, 85073-85081	3.7	37
105	Piezoelectricity-Induced Schottky Barrier Height Variations in AlGaIn/GaN High Electron Mobility Transistors. <i>IEEE Electron Device Letters</i> , 2015 , 36, 902-904	4.4	19
104	Direct-Write, Self-Aligned Electrospinning on Paper for Controllable Fabrication of Three-Dimensional Structures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27765-70	9.5	90

103	Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. <i>Microelectronic Engineering</i> , 2015 , 132, 192-206	2.5	146
102	3D-printed microelectronics for integrated circuitry and passive wireless sensors. <i>Microsystems and Nanoengineering</i> , 2015 , 1,	7.7	147
101	Capacitive micromachined ultrasonic transducer for ultra-low pressure measurement: Theoretical study. <i>AIP Advances</i> , 2015 , 5, 127231	1.5	6
100	Influence of three-dimensional nanoparticle branching on the Young's modulus of nanocomposites: Effect of interface orientation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6533-8	11.5	29
99	2015 ,		22
98	Synthetic preparation of novel 3D Si/TiO ₂ /TiO ₃ composite nanorod arrays as anodes in lithium ion batteries. <i>RSC Advances</i> , 2015 , 5, 37399-37404	3.7	8
97	Self-curved diaphragms by stress engineering for highly responsive pMUT 2015 ,		14
96	Poly (vinylidene fluoride) piezoelectric nanofibers fabricated by non-uniform field electrospinning. <i>International Journal of Nanomanufacturing</i> , 2015 , 11, 297	0.7	3
95	Significant piezoelectric and energy harvesting enhancement of poly(vinylidene fluoride)/polypeptide fiber composites prepared through near-field electrospinning. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6835-6843	13	51
94	Electrochemically synthesized and vertically aligned carbon nanotube/polypyrrole nanolayers for high energy storage devices. <i>Sensors and Actuators A: Physical</i> , 2015 , 231, 65-73	3.9	26
93	High Performance 3D Si/Ge Nanorods Array Anode Buffered by TiN/Ti Interlayer for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2015 , 25, 1386-1392	15.6	70
92	Direct-write complementary graphene field effect transistors and junctions via near-field electrospinning. <i>Small</i> , 2014 , 10, 1920-5	11	18
91	High quality factor nanocrystalline diamond micromechanical resonators limited by thermoelastic damping. <i>Applied Physics Letters</i> , 2014 , 104, 151903	3.4	31
90	Microfluidic bead-based diodes with targeted circular microchannels for low Reynolds number applications. <i>Lab on A Chip</i> , 2014 , 14, 1585-94	7.2	21
89	Photoelectrochemical and electrocatalytic properties of thermally oxidized copper oxide for efficient solar fuel production. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7389-7401	13	35
88	Energy harvesting with piezoelectric poly(L-benzyl-L-glutamate) fibers prepared through cylindrical near-field electrospinning. <i>RSC Advances</i> , 2014 , 4, 21563	3.7	16
87	Dual-mode hydrodynamic railing and arraying of microparticles for multi-stage signal detection in continuous flow biochemical microprocessors. <i>Lab on A Chip</i> , 2014 , 14, 1405-9	7.2	22
86	Finger-powered microfluidic systems using multilayer soft lithography and injection molding processes. <i>Lab on A Chip</i> , 2014 , 14, 3790-9	7.2	98

85	Resonant-frequency tuning of angular vertical comb-driven microscanner. <i>Micro and Nano Systems Letters</i> , 2014 , 2,	2	5
84	A hybrid supercapacitor using vertically aligned CNT-polypyrrole nanocomposite 2014 ,		1
83	A two-port piezoelectric micromachined ultrasonic transducer 2014 ,		13
82	Multiple electrode piezoelectric micromachined ultrasonic transducers 2014 ,		8
81	Highly responsive curved aluminum nitride pMUT 2014 ,		30
80	An equivalent circuit model for curved piezoelectric micromachined ultrasonic transducers with spherical-shape diaphragms 2014 ,		5
79	Uniformly embedded metal oxide nanoparticles in vertically aligned carbon nanotube forests as pseudocapacitor electrodes for enhanced energy storage. <i>Nano Letters</i> , 2013 , 13, 3524-30	11.5	125
78	An autonomous impact resonator with metal beam between a pair of parallel-plate electrodes. <i>Sensors and Actuators A: Physical</i> , 2013 , 199, 366-371	3.9	19
77	Synthesis and bidirectional frequency tuning of cantilever-shape nano resonators using a focused ion beam. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9684-90	9.5	5
76	Microcrystalline diamond micromechanical resonators with quality factor limited by thermoelastic damping. <i>Applied Physics Letters</i> , 2013 , 102, 071901	3.4	21
75	Enhanced coupling of piezoelectric micromachined ultrasonic transducers with initial static deflection 2013 ,		5
74	An accurate equivalent circuit for the clamped circular multiple-electrode PMUT with residual stress 2013 ,		16
73	Impact of doping and microstructure on quality factor of CVD diamond micromechanical resonators 2012 ,		2
72	Hydrodynamic resettability for a microfluidic particulate-based arraying system. <i>Lab on A Chip</i> , 2012 , 12, 5051-6	7.2	29
71	Piezoelectric nanofibers for energy scavenging applications. <i>Nano Energy</i> , 2012 , 1, 356-371	17.1	331
70	A two-stage, self-aligned vertical densification process for as-grown CNT forests in supercapacitor applications. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 261-267	3.9	28
69	Rapid Silicon-to-Steel Bonding by Induction Heating for MEMS Strain Sensors. <i>Journal of Microelectromechanical Systems</i> , 2012 , 21, 497-506	2.5	15
68	Continuous flow multi-stage microfluidic reactors via hydrodynamic microparticle railing. <i>Lab on A Chip</i> , 2012 , 12, 4168-77	7.2	51

67	Large array electrospun PVDF nanogenerators on a flexible substrate 2011 ,		14
66	Contact and sheet resistances of carbon nanotube forest in gas sensing applications 2011 ,		2
65	Unidirectional mechanical cellular stimuli via micropost array gradients. <i>Soft Matter</i> , 2011 , 7, 4606	3.6	57
64	Micromachined W-band polymeric tunable iris filter. <i>Microsystem Technologies</i> , 2011 , 17, 411-416	1.7	3
63	Characterizations of contact and sheet resistances of vertically aligned carbon nanotube forests with intrinsic bottom contacts. <i>Nanotechnology</i> , 2011 , 22, 365704	3.4	16
62	On-Chip Cryopreservation of Living Cells. <i>Journal of the Association for Laboratory Automation</i> , 2010 , 15, 99-106		8
61	Pick, break, and placement of one-dimensional nanostructures for direct assembly and integration. <i>Applied Physics Letters</i> , 2010 , 96, 153101	3.4	7
60	Localized heating induced chemical vapor deposition for one-dimensional nanostructure synthesis. <i>Journal of Applied Physics</i> , 2010 , 107, 051101	2.5	36
59	Annealing nano-to-micro contacts for improved contact resistance 2010 ,		2
58	Direct-write piezoelectric polymeric nanogenerator with high energy conversion efficiency. <i>Nano Letters</i> , 2010 , 10, 726-31	11.5	1026
57	3D supercapacitor using nickel electroplated vertical aligned carbon nanotube array electrode 2010 ,		9
56	Piezoelectric actuation of a direct write electrospun PVDF fiber 2010 ,		5
55	A direct-write piezoelectric PVDF nanogenerator 2009 ,		23
54	Rapid, localized synthesis of titanium-based nanoswords on MEMS. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008 ,		2
53	Continuous near-field electrospinning for large area deposition of orderly nanofiber patterns. <i>Applied Physics Letters</i> , 2008 , 93, 123111	3.4	231
52	The Behaviors of Direct-Written Nanofibers on Patterned Substrate 2008 ,		2
51	A closed-form approach for frequency tunable comb resonators with curved finger contour. <i>Sensors and Actuators A: Physical</i> , 2008 , 141, 523-529	3.9	40
50	A Plastic W-Band MEMS Phase Shifter 2007 ,		3

49	Polymeric microneedle fabrication using a microinjection molding technique. <i>Microsystem Technologies</i> , 2007 , 13, 517-522	1.7	79
48	Nonlinear behaviors of a comb drive actuator under electrically induced tensile and compressive stresses. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 557-566	2	13
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11	A bi-directional electrothermal electromagnetic actuator	2
10	Micromachined microbial fuel cells	8
9	Silicon nanowire-based nanoactuator	2
8	Frozen water for MEMS fabrication and packaging applications	1
7	Nickel nano-composite film for MEMS applications	3
6	Selective polysilicon deposition for frequency tuning of MEMS resonators	6
5	Localized plastic bonding for micro assembly, packaging and liquid encapsulation	1
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