Liwei Lin

List of Publications by Citations

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	Direct-write piezoelectric polymeric nanogenerator with high energy conversion efficiency. *Nano Letters*, **2010**, 10, 726-31	11.5	1026
227	Near-field electrospinning. *Nano Letters*, **2006**, 6, 839-42	11.5	564
226	A review on chemiresistive room temperature gas sensors based on metal oxide nanostructures, graphene and 2D transition metal dichalcogenides. *Mikrochimica Acta*, **2018**, 185, 213	5.8	350
225	Piezoelectric nanofibers for energy scavenging applications. *Nano Energy*, **2012**, 1, 356-371	17.1	331
224	A comprehensive review on piezoelectric energy harvesting technology: Materials, mechanisms, and applications. *Applied Physics Reviews*, **2018**, 5, 041306	17.3	316
223	Continuous near-field electrospinning for large area deposition of orderly nanofiber patterns. *Applied Physics Letters*, **2008**, 93, 123111	3.4	231
222	Active microfluidic mixer and gas bubble filter driven by thermal bubble micropump. *Sensors and Actuators A: Physical*, **2002**, 97-98, 665-671	3.9	205
221	Functional gas sensing nanomaterials: A panoramic view. *Applied Physics Reviews*, **2020**, 7, 021301	17.3	170
220	Microelectromechanical filters for signal processing. *Journal of Microelectromechanical Systems*, **1998**, 7, 286-294	2.5	170
219	Silicon-processed microneedles. *Journal of Microelectromechanical Systems*, **1999**, 8, 78-84	2.5	153
218	3D-printed microelectronics for integrated circuitry and passive wireless sensors. *Microsystems and Nanoengineering*, **2015**, 1,	7.7	147
217	Graphene and carbon nanotube (CNT) in MEMS/NEMS applications. *Microelectronic Engineering*, **2015**, 132, 192-206	2.5	146
216	Insect-scale fast moving and ultrarobust soft robot. *Science Robotics*, **2019**, 4,	18.6	137
215	Electrothermal responses of lineshape microstructures. *Sensors and Actuators A: Physical*, **1996**, 55, 35-41	3.9	127
214	Uniformly embedded metal oxide nanoparticles in vertically aligned carbon nanotube forests as pseudocapacitor electrodes for enhanced energy storage. *Nano Letters*, **2013**, 13, 3524-30	11.5	125
213	3D printed microfluidics and microelectronics. *Microelectronic Engineering*, **2018**, 189, 52-68	2.5	124
212	A thermal-bubble-actuated micronozzle-diffuser pump. *Journal of Microelectromechanical Systems*, **2002**, 11, 665-671	2.5	118

211	Au-TiO-Loaded Cubic g-CN Nanohybrids for Photocatalytic and Volatile Organic Amine Sensing Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 34087-34097	9.5	102
210	Finger-powered microfluidic systems using multilayer soft lithography and injection molding processes. *Lab on A Chip*, **2014**, 14, 3790-9	7.2	98
209	Active frequency tuning for micro resonators by localized thermal stressing effects. *Sensors and Actuators A: Physical*, **2001**, 91, 326-332	3.9	97
208	. *Journal of Microelectromechanical Systems*, **2002**, 11, 556-565	2.5	94
207	Human Pulse Diagnosis for Medical Assessments Using a Wearable Piezoelectret Sensing System. *Advanced Functional Materials*, **2018**, 28, 1803413	15.6	92
206	Laser-Induced Molybdenum Carbide-Graphene Composites for 3D Foldable Paper Electronics. *Advanced Materials*, **2018**, 30, e1800062	24	91
205	Direct-Write, Self-Aligned Electrospinning on Paper for Controllable Fabrication of Three-Dimensional Structures. *ACS Applied Materials & Interfaces*, **2015**, 7, 27765-70	9.5	90
204	Highly active ruthenium oxide coating via ALD and electrochemical activation in supercapacitor applications. *Journal of Materials Chemistry A*, **2015**, 3, 15568-15575	13	88
203	Polymeric Nanofibers with Ultrahigh Piezoelectricity via Self-Orientation of Nanocrystals. *ACS Nano* , **2017**, 11, 1901-1910	16.7	85
202	A micro strain gauge with mechanical amplifier. *Journal of Microelectromechanical Systems*, **1997**, 6, 313-321	2.5	84
201	A simulation program for the sensitivity and linearity of piezoresistive pressure sensors. *Journal of Microelectromechanical Systems*, **1999**, 8, 514-522	2.5	83
200	A Review of On-Chip Micro Supercapacitors for Integrated Self-Powering Systems. *Journal of Microelectromechanical Systems*, **2017**, 26, 949-965	2.5	79
199	Polymeric microneedle fabrication using a microinjection molding technique. *Microsystem Technologies*, **2007**, 13, 517-522	1.7	79
198	High-Voltage Supercapacitors Based on Aqueous Electrolytes. *ChemElectroChem*, **2019**, 6, 976-988	4.3	79
197	A Flexible Piezoelectret Actuator/Sensor Patch for Mechanical Human-Machine Interfaces. *ACS Nano*, **2019**, 13, 7107-7116	16.7	76
196	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. *Journal of Materials Chemistry A*, **2015**, 3, 16860-16866	13	75
195	A water-powered osmotic microactuator. *Journal of Microelectromechanical Systems*, **2002**, 11, 736-742	2.5	75
194	High Performance 3D Si/Ge Nanorods Array Anode Buffered by TiN/Ti Interlayer for Sodium-Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 1386-1392	15.6	70

193	Thermal Bubble Formation on Polysilicon Micro Resistors. *Journal of Heat Transfer*, **1998**, 120, 735-742	1.8	67
192	MICROSCALE THERMAL BUBBLE FORMATION: THERMOPHYSICAL PHENOMENA AND APPLICATIONS. *Microscale Thermophysical Engineering*, **1998**, 2, 71-85		66
191	The application of nanosecond-pulsed laser welding technology in MEMS packaging with a shadow mask. *Sensors and Actuators A: Physical*, **2002**, 97-98, 398-404	3.9	63
190	Self-Assembly of Large-Area 2D Polycrystalline Transition Metal Carbides for Hydrogen Electrocatalysis. *Advanced Materials*, **2018**, 30, e1805188	24	59
189	UV-assisted chemiresistors made with gold-modified ZnO nanorods to detect ozone gas at room temperature. *Mikrochimica Acta*, **2019**, 186, 418	5.8	57
188	Unidirectional mechanical cellular stimuli via micropost array gradients. *Soft Matter*, **2011**, 7, 4606	3.6	57
187	Rapid assembly of multilayer microfluidic structures via 3D-printed transfer molding and bonding. *Microsystems and Nanoengineering*, **2016**, 2, 16063	7.7	56
186	Significant piezoelectric and energy harvesting enhancement of poly(vinylidene fluoride)/polypeptide fiber composites prepared through near-field electrospinning. *Journal of Materials Chemistry A*, **2015**, 3, 6835-6843	13	51
185	Continuous flow multi-stage microfluidic reactors via hydrodynamic microparticle railing. *Lab on A Chip*, **2012**, 12, 4168-77	7.2	51
184	Micro-to-macro fluidic interconnectors with an integrated polymer sealant. *Journal of Micromechanics and Microengineering*, **2001**, 11, 577-581	2	51
183	Flexible PET/EVA-based piezoelectret generator for energy harvesting in harsh environments. *Nano Energy*, **2017**, 37, 268-274	17.1	49
182	An electronic nose using a single graphene FET and machine learning for water, methanol, and ethanol. *Microsystems and Nanoengineering*, **2020**, 6, 50	7.7	49
181	High-Voltage Flexible Microsupercapacitors Based on Laser-Induced Graphene. *ACS Applied Materials & Interfaces*, **2018**, 10, 26357-26364	9.5	49
180	Laser-sculptured ultrathin transition metal carbide layers for energy storage and energy harvesting applications. *Nature Communications*, **2019**, 10, 3112	17.4	48
179	Water-activated disposable and long shelf life microbatteries. *Sensors and Actuators A: Physical*, **2004**, 111, 79-86	3.9	46
178	Room temperature fast synthesis of zinc oxide nanowires by inductive heating. *Applied Physics Letters*, **2007**, 90, 093101	3.4	44
177	Characterization of selective polysilicon deposition for MEMS resonator tuning. *Journal of Microelectromechanical Systems*, **2003**, 12, 193-200	2.5	44
176	Stereolithography (SLA) 3D printing of ascorbic acid loaded hydrogels: A controlled release study. *International Journal of Pharmaceutics*, **2020**, 584, 119428	6.5	44

175	Lead iodide nanosheets for piezoelectric energy conversion and strain sensing. *Nano Energy*, **2018**, 49, 7-13	17.1	43
174	Transient Thermal Bubble Formation on Polysilicon Micro-Resisters. *Journal of Heat Transfer*, **2002**, 124, 375-382	1.8	42
173	Kirigami-inspired, highly stretchable micro-supercapacitor patches fabricated by laser conversion and cutting. *Microsystems and Nanoengineering*, **2018**, 4, 36	7.7	42
172	Superior visible light photocatalysis and low-operating temperature VOCs sensor using cubic Ag(0)-MoS2 loaded g-CN 3D porous hybrid. *Applied Materials Today*, **2019**, 16, 193-203	6.6	40
171	A closed-form approach for frequency tunable comb resonators with curved finger contour. *Sensors and Actuators A: Physical*, **2008**, 141, 523-529	3.9	40
170	A Wireless Passive Pressure and Temperature Sensor via a Dual LC Resonant Circuit in Harsh Environments. *Journal of Microelectromechanical Systems*, **2017**, 26, 351-356	2.5	39
169	Bimorph Piezoelectric Micromachined Ultrasonic Transducers. *Journal of Microelectromechanical Systems*, **2016**, 25, 326-336	2.5	39
168	A Solar-Blind UV Detector Based on Graphene-Microcrystalline Diamond Heterojunctions. *Small*, **2017**, 13, 1701328	11	39
167	Formation of Silicon-Gold Eutectic Bond Using Localized Heating Method. *Japanese Journal of Applied Physics*, **1998**, 37, L1412-L1414	1.4	38
166	Near-field electrospinning enhances the energy harvesting of hollow PVDF piezoelectric fibers. *RSC Advances*, **2015**, 5, 85073-85081	3.7	37
165	Wearable woven supercapacitor fabrics with high energy density and load-bearing capability. *Scientific Reports*, **2017**, 7, 14324	4.9	36
164	Model, Design, and Testing of Field Mill Sensors for Measuring Electric Fields Under High-Voltage Direct-Current Power Lines. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 608-615	8.9	36
163	High-Performance PVC Gel for Adaptive Micro-Lenses with Variable Focal Length. *Scientific Reports*, **2017**, 7, 2068	4.9	36
162	Localized heating induced chemical vapor deposition for one-dimensional nanostructure synthesis. *Journal of Applied Physics*, **2010**, 107, 051101	2.5	36
161	Formation and characterization of silicon/carbon nanotube/silicon heterojunctions by local synthesis and assembly. *Applied Physics Letters*, **2006**, 89, 163510	3.4	36
160	Microrelays With Bidirectional Electrothermal Electromagnetic Actuators and Liquid Metal Wetted Contacts. *Journal of Microelectromechanical Systems*, **2007**, 16, 700-708	2.5	36
159	Microfluidic dielectrophoresis illuminates the relationship between microbial cell envelope polarizability and electrochemical activity. *Science Advances*, **2019**, 5, eaat5664	14.3	36
158	Photoelectrochemical and electrocatalytic properties of thermally oxidized copper oxide for efficient solar fuel production. *Journal of Materials Chemistry A*, **2014**, 2, 7389-7401	13	35

157	MEMS sensor material based on polypyrrole□carbon nanotube nanocomposite: film deposition and characterization. *Journal of Micromechanics and Microengineering*, **2005**, 15, 2019-2027	2	35
156	Thermal bubble powered microactuators. *Microsystem Technologies*, **1994**, 1, 51-58	1.7	35
155	3D printed microfluidic devices for circulating tumor cells (CTCs) isolation. *Biosensors and Bioelectronics*, **2020**, 150, 111900	11.8	34
154	ALD titanium nitride on vertically aligned carbon nanotube forests for electrochemical supercapacitors. *Sensors and Actuators A: Physical*, **2016**, 240, 160-166	3.9	32
153	Ultrathin Coaxial Fiber Supercapacitors Achieving High Energy and Power Densities. *ACS Applied Materials & Interfaces*, **2017**, 9, 39391-39398	9.5	31
152	Magnetic-Based Indoor Localization Using Smartphone via a Fusion Algorithm. *IEEE Sensors Journal*, **2019**, 19, 6477-6485	4	31
151	NO2 gas sensors based on CVD tungsten diselenide monolayer. *Applied Surface Science*, **2020**, 529, 147160	6.7	31
150	High quality factor nanocrystalline diamond micromechanical resonators limited by thermoelastic damping. *Applied Physics Letters*, **2014**, 104, 151903	3.4	31
149	Microplastic lens array fabricated by a hot intrusion process. *Journal of Microelectromechanical Systems*, **2004**, 13, 1063-1071	2.5	31
148	Highly responsive curved aluminum nitride pMUT **2014**,		30
147	Influence of three-dimensional nanoparticle branching on the Young's modulus of nanocomposites: Effect of interface orientation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6533-8	11.5	29
146	Hydrodynamic resettability for a microfluidic particulate-based arraying system. *Lab on A Chip*, **2012**, 12, 5051-6	7.2	29
145	A two-stage, self-aligned vertical densification process for as-grown CNT forests in supercapacitor applications. *Sensors and Actuators A: Physical*, **2012**, 188, 261-267	3.9	28
144	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. *ACS Applied Materials & Interfaces*, **2019**, 11, 18808-18816	9.5	27
143	ZIF-8 Cooperating in TiN/Ti/Si Nanorods as Efficient Anodes in Micro-Lithium-Ion-Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 3992-9	9.5	27
142	In vitro cardiomyocyte-driven biogenerator based on aligned piezoelectric nanofibers. *Nanoscale*, **2016**, 8, 7278-86	7.7	26
141	Electrochemically synthesized and vertically aligned carbon nanotube□polypyrrole nanolayers for high energy storage devices. *Sensors and Actuators A: Physical*, **2015**, 231, 65-73	3.9	26
140	Characterizing Photon Reabsorption in Quantum Dot-Polymer Composites for Use as Displacement Sensors. *ACS Nano*, **2017**, 11, 2075-2084	16.7	24

139	Equivalent Circuit Models for Large Arrays of Curved and Flat Piezoelectric Micromachined Ultrasonic Transducers. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2016**, 63, 432-47	3.2	24
138	A direct-write piezoelectric PVDF nanogenerator **2009**,		23
137	Direct Synthesis of a Covalently Self-Assembled Peptide Nanogel from a Tyrosine-Rich Peptide Monomer and Its Biomineralized Hybrids. *Angewandte Chemie - International Edition*, **2018**, 57, 5630-5634	16.4	22
136	Dual-mode hydrodynamic railing and arraying of microparticles for multi-stage signal detection in continuous flow biochemical microprocessors. *Lab on A Chip*, **2014**, 14, 1405-9	7.2	22
135	**2015**,		22
134	Flexible micro-supercapacitors prepared using direct-write nanofibers. *RSC Advances*, **2017**, 7, 11724-11731	3.7	21
133	Microfluidic bead-based diodes with targeted circular microchannels for low Reynolds number applications. *Lab on A Chip*, **2014**, 14, 1585-94	7.2	21
132	Microcrystalline diamond micromechanical resonators with quality factor limited by thermoelastic damping. *Applied Physics Letters*, **2013**, 102, 071901	3.4	21
131	Fabrication of Si-based three-dimensional microbatteries: A review. *Frontiers of Mechanical Engineering*, **2017**, 12, 459-476	3.3	21
130	MEMS pressure sensors for aerospace applications		21
129	Thermal challenges in MEMS applications: phase change phenomena and thermal bonding processes. *Microelectronics Journal*, **2003**, 34, 179-185	1.8	21
128	Defect-Induced Gas Adsorption on Graphene Transistors. *Advanced Materials Interfaces*, **2018**, 5, 1701640	4.6	20
127	A Naturally Integrated Smart Textile for Wearable Electronics Applications. *Advanced Materials Technologies*, **2020**, 5, 1900781	6.8	20
126	A fast-moving electrostatic crawling insect **2017**,		19
125	Piezoelectricity-Induced Schottky Barrier Height Variations in AlGaN/GaN High Electron Mobility Transistors. *IEEE Electron Device Letters*, **2015**, 36, 902-904	4.4	19
124	An autonomous impact resonator with metal beam between a pair of parallel-plate electrodes. *Sensors and Actuators A: Physical*, **2013**, 199, 366-371	3.9	19
123	Direct-write complementary graphene field effect transistors and junctions via near-field electrospinning. *Small*, **2014**, 10, 1920-5	11	18
122	Human pulses reveal health conditions by a piezoelectret sensor via the approximate entropy analysis. *Nano Energy*, **2019**, 58, 528-535	17.1	17

121	On the performance of array antennas with mechanical distortion errors considering element numbers. *International Journal of Electronics*, **2017**, 104, 462-484	1.2	17
120	3D Printing-Based Integrated Water Quality Sensing System. *Sensors*, **2017**, 17,	3.8	17
119	Energy harvesting with piezoelectric poly(Ebenzyl-L-glutamate) fibers prepared through cylindrical near-field electrospinning. *RSC Advances*, **2014**, 4, 21563	3.7	16
118	An accurate equivalent circuit for the clamped circular multiple-electrode PMUT with residual stress **2013**,		16
117	Characterizations of contact and sheet resistances of vertically aligned carbon nanotube forests with intrinsic bottom contacts. *Nanotechnology*, **2011**, 22, 365704	3.4	16
116	Synthesis of Single-Layer Graphene on Nickel Using a Droplet CVD Process. *Advanced Materials Interfaces*, **2017**, 4, 1600783	4.6	15
115	Chemical vapor deposition of 3D graphene/carbon nanotubes networks for hybrid supercapacitors. *Sensors and Actuators A: Physical*, **2020**, 304, 111886	3.9	15
114	Ultrafast Growth of Large 2D Silver Nanosheets by Highly Ordered Biological Template at Air/Gel Interface. *Advanced Materials Interfaces*, **2018**, 5, 1701491	4.6	15
113	High Stability Induced by the TiN/Ti Interlayer in Three-Dimensional Si/Ge Nanorod Arrays as Anode in Micro Lithium Ion Battery. *ACS Applied Materials & Interfaces*, **2016**, 8, 7806-10	9.5	15
112	Rapid Silicon-to-Steel Bonding by Induction Heating for MEMS Strain Sensors. *Journal of Microelectromechanical Systems*, **2012**, 21, 497-506	2.5	15
111	Breathable 3D Supercapacitors Based on Activated Carbon Fiber Veil. *Advanced Materials Technologies*, **2018**, 3, 1800209	6.8	14
110	Self-curved diaphragms by stress engineering for highly responsive pMUT **2015**,		14
109	Large array electrospun PVDF nanogenerators on a flexible substrate **2011**,		14
108	Electrostatic footpads enable agile insect-scale soft robots with trajectory control. *Science Robotics* , **2021**, 6,	18.6	14
107	Broadband ring-shaped PMUTS based on an acoustically induced resonance **2017**,		13
106	Multichip LED Modules With V-Groove Surfaces for Light Extraction Efficiency Enhancements Considering Roughness Scattering. *IEEE Transactions on Electron Devices*, **2017**, 64, 182-188	2.9	13
105	Wearable breath monitoring via a hot-film/calorimetric airflow sensing system. *Biosensors and Bioelectronics*, **2020**, 163, 112288	11.8	13
104	Biomimetic, Flexible, and Self-Healable Printed Silver Electrode by Spontaneous Self-Layering Phenomenon of a Gelatin Scaffold. *ACS Applied Materials & Interfaces*, **2018**, 10, 25666-25672	9.5	13

103	A two-port piezoelectric micromachined ultrasonic transducer **2014**,		13
102	Nonlinear behaviors of a comb drive actuator under electrically induced tensile and compressive stresses. *Journal of Micromechanics and Microengineering*, **2007**, 17, 557-566	2	13
101	Shoepad nanogenerator based on electrospun PVDF nanofibers. *Microsystem Technologies*, **2019**, 25, 3151-3156	1.7	12
100	Finger-powered fluidic actuation and mixing via MultiJet 3D printing. *Lab on A Chip*, **2020**, 20, 3375-3385	7.2	11
99	Piezoelectric Micromachined Ultrasonic Transducers With Pinned Boundary Structure. *Journal of Microelectromechanical Systems*, **2020**, 29, 585-591	2.5	10
98	Gold nanoparticle based plasmonic sensing for the detection of SARS-CoV-2 nucleocapsid proteins. *Biosensors and Bioelectronics*, **2022**, 195, 113669	11.8	10
97	Wafer-Scale Fabrication of Sub-10 nm TiO-GaO n-p Heterojunctions with Efficient Photocatalytic Activity by Atomic Layer Deposition. *Nanoscale Research Letters*, **2019**, 14, 163	5	9
96	3D supercapacitor using nickel electroplated vertical aligned carbon nanotube array electrode **2010** ,		9
95	3D microfluidic gradient generator for combination antimicrobial susceptibility testing. *Microsystems and Nanoengineering*, **2020**, 6, 92	7.7	9
94	Synthetic preparation of novel 3D Si/TiO2Ti2O3 composite nanorod arrays as anodes in lithium ion batteries. *RSC Advances*, **2015**, 5, 37399-37404	3.7	8
93	Multiple electrode piezoelectric micromachined ultrasonic transducers **2014**,		8
92	On-Chip Cryopreservation of Living Cells. *Journal of the Association for Laboratory Automation*, **2010**, 15, 99-106		8
91	A Plastic W-Band MEMS Tunable Filter **2006**,		8
90	Micromachined microbial fuel cells		8
89	Sonochemical and mechanical stirring synthesis of liquid metal nanograss structures for low-cost SERS substrates. *Journal of Raman Spectroscopy*, **2018**, 49, 1301-1310	2.3	8
88	Energy harvesting from cerebrospinal fluid pressure fluctuations for self-powered neural implants. *Biomedical Microdevices*, **2017**, 19, 32	3.7	7
87	Metallo-Hydrogel-Assisted Synthesis and Direct Writing of Transition Metal Dichalcogenides. *Advanced Functional Materials*, **2019**, 29, 1807612	15.6	7
86	Pick, break, and placement of one-dimensional nanostructures for direct assembly and integration. *Applied Physics Letters*, **2010**, 96, 153101	3.4	7

85	A micromachined W-band iris filter **2005**,		7
84	Electromagnetic interference shielding with laser induced molybdenum carbide-graphene paper. *Materials Letters*, **2020**, 271, 127784	3.3	7
83	Fully Transparent Piezoelectric Ultrasonic Transducer with 3D Printed Substrate **2019**,		6
82	Capacitive micromachined ultrasonic transducer for ultra-low pressure measurement: Theoretical study. *AIP Advances*, **2015**, 5, 127231	1.5	6
81	Selective polysilicon deposition for frequency tuning of MEMS resonators		6
80	A 36-Channel Auto-Calibrated Front-End ASIC for a pMUT-Based Miniaturized 3-D Ultrasound System. *IEEE Journal of Solid-State Circuits*, **2021**, 56, 1910-1923	5.5	6
79	Mass Loading-Independent Energy Storage with Reduced Graphene Oxide and Carbon Fiber. *ChemElectroChem*, **2019**, 6, 6009-6015	4.3	6
78	Deep Reinforcement Learning for Digital Materials Design1433-1439		6
77	Moisture-induced autonomous surface potential oscillations for energy harvesting. *Nature Communications*, **2021**, 12, 5287	17.4	6
76	Self-Assembly of Silver Nanowire Ring Structures Driven by the Compressive Force of a Liquid Droplet. *Langmuir*, **2017**, 33, 3367-3372	4	5
75	Self-constructed side-by-side nanofiber photocatalyst via oppositely charged electrospinning and its photocatalytic degradation of rhodamine B. *New Journal of Chemistry*, **2019**, 43, 15405-15412	3.6	5
74	Highly Efficient Photocatalysts for Surface Hybridization of TiO Nanofibers with Carbon Films. *ChemPlusChem*, **2015**, 80, 827-831	2.8	5
73	Resonant-frequency tuning of angular vertical comb-driven microscanner. *Micro and Nano Systems Letters*, **2014**, 2,	2	5
72	Synthesis and bidirectional frequency tuning of cantilever-shape nano resonators using a focused ion beam. *ACS Applied Materials & Interfaces*, **2013**, 5, 9684-90	9.5	5
71	An equivalent circuit model for curved piezoelectric micromachined ultrasonic transducers with spherical-shape diaphragms **2014**,		5
70	Enhanced coupling of piezoelectric micromachined ultrasonic transducers with initial static deflection **2013**,		5
69	Piezoelectric actuation of a direct write electrospun PVDF fiber **2010**,		5
68	Functional Carbon Nanofibers with Semi-Embedded Titanium Oxide Particles via Electrospinning. *Macromolecular Rapid Communications*, **2018**, 39, e1800102	4.8	5

67	Electrohydrodynamic 3D printing of orderly carbon/nickel composite network as supercapacitor electrodes. *Journal of Materials Science and Technology*, **2021**, 82, 135-143	9.1	5
66	A 1000-Volt planar micro-supercapacitor by direct-write laser engraving of polymers **2017**,		4
65	**2020**,		4
64	Bi-directional micro relays with liquid-metal wetted contacts		4
63	Soft magnetic composites for highly deformable actuators by four-dimensional electrohydrodynamic printing. *Composites Part B: Engineering*, **2022**, 231, 109596	10	4
62	High aspect-ratio 3D microstructures via near-field electrospinning for energy storage applications **2016**,		4
61	Improved Ring-Down Time and Axial Resolution of pMUTs via a Phase-Shift Excitation Scheme **2021** ,		4
60	Electrically Adaptive and Shape-Changeable Invertible Microlens. *ACS Applied Materials & Interfaces*, **2021**, 13, 10397-10408	9.5	4
59	Energy Harvester and Cell Proliferation from Biocompatible PMLG Nanofibers Prepared Using Near-Field Electrospinning and Electrospray Technology. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 156-164	1.3	4
58	**2018**,		4
57	A low voltage-powered soft electromechanical stimulation patch for haptics feedback in human-machine interfaces. *Biosensors and Bioelectronics*, **2021**, 193, 113616	11.8	4
56	A silicon carbide differential output pressure sensor by concentrically matched capacitance **2017**,		3
55	A Fast-Moving Micro Crawling Robot with Direct Electromagnetic Driving Mechanism **2019**,		3
54	Atomic Layer Deposition of TiO2 Nanocoatings on ZnO Nanowires for Improved Photocatalytic Stability. *International Journal of Photoenergy*, **2019**, 2019, 1-8	2.1	3
53	Pulsed Wave Doppler Ultrasound Using 3.7 MHz Pmuts Toward Wearable Blood Flow Measurements **2020**,		3
52	Direct Synthesis of a Covalently Self-Assembled Peptide Nanogel from a Tyrosine-Rich Peptide Monomer and Its Biomineralized Hybrids. *Angewandte Chemie*, **2018**, 130, 5732-5736	3.6	3
51	Microscopic mechanisms of deformation transfer in high dynamic range branched nanoparticle deformation sensors. *Nature Communications*, **2018**, 9, 1155	17.4	3
50	Dual-electrode bimorph pmut arrays for handheld therapeutic medical devices **2016**,		3

49	Poly (vinylidene fluoride) piezoelectric nanofibers fabricated by non-uniform field electrospinning. *International Journal of Nanomanufacturing*, **2015**, 11, 297	0.7	3
48	Micromachined W-band polymeric tunable iris filter. *Microsystem Technologies*, **2011**, 17, 411-416	1.7	3
47	A Plastic W-Band MEMS Phase Shifter **2007**,		3
46	Nickel nano-composite film for MEMS applications		3
45	Asymmetric charge transfer phenomenon and its mechanism in self-excited electrostatic actuator **2018**,		3
44	Bimorph Pinned Piezoelectric Micromachined Ultrasonic Transducers for Space Imaging Applications. *Journal of Microelectromechanical Systems*, **2021**, 30, 650-658	2.5	3
43	A Pulsed Wave Doppler Ultrasound Blood Flowmeter by PMUTs. *Journal of Microelectromechanical Systems*, **2021**, 30, 680-682	2.5	3
42	Influence of chamber design on the gas sensing performance of graphene field-effect-transistor. *SN Applied Sciences*, **2020**, 2, 1	1.8	2
41	Pinned Boundary Piezoelectric Micromachined Ultrasonic Transducers **2019**,		2
40	Impact of doping and microstructure on quality factor of CVD diamond micromechanical resonators **2012**,		2
39	Contact and sheet resisstances of carbon nanotube forest in gas sensing applications **2011**,		2
38	Annealing nano-to-micro contacts for improved contact resistance **2010**,		2
37	Rapid, localized synthesis of titanium-based nanoswords on MEMS. *Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)*, **2008**,		2
36	The Behaviors of Direct-Written Nanofibers on Patterned Substrate **2008**,		2
35	Chip-to-chip fluidic connectors via near-field electrospinning **2007**,		2
34	Rapid synthesis of carbon nanotubes by bulk and localized inductive heating **2007**,		2
33	Microfabricated plastic 95-GHz rectangular waveguide		2
32	A bi-directional electrothermal electromagnetic actuator		2

31	Silicon nanowire-based nanoactuator		2
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