

Tianhong Cui

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.

194
papers

3,724
citations

33
h-index

54
g-index

239
ext. papers

4,261
ext. citations

4.7
avg, IF

5.68
L-index

#	Paper	IF	Citations
194	Vibrating an air bubble to enhance mass transfer for an ultra-sensitive electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2022 , 354, 131218	8.5	0
193	Numerical Simulation of Vapor Deposition Process of Perovskite Solar Cells: The Influence of Methylammonium Iodide Vapor Flow to Perovskite Growth. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021 , 143,	2.3	2
192	Progress of shrink polymer micro- and nanomanufacturing. <i>Microsystems and Nanoengineering</i> , 2021 , 7, 88	7.7	3
191	Simulation and Experiments on a Valveless Micropump With Fluidic Diodes Based on Topology Optimization. <i>Journal of Microelectromechanical Systems</i> , 2021 , 1-6	2.5	0
190	Flexible Electrochemical Sensor With Graphene and Gold Nanoparticles to Detect Dopamine and Uric Acid. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2
189	An experimental and numerical study on heat transfer enhancement of a heat sink fin by synthetic jet impingement. <i>Heat and Mass Transfer</i> , 2021 , 57, 583-593	2.2	3
188	A Non-Enzymatic Electrochemical Sensor Using a Wrinkled Gold Film on Shrink Polymer. <i>IEEE Sensors Journal</i> , 2021 , 21, 5711-5719	4	0
187	A Circular Vibrating Electrode with Enhanced Mass Transfer for High-Performance Electrochemical Sensors 2021 ,		1
186	A Fluidic Diode and Its Application to a Valveless Micropump 2021 ,		1
185	Enhanced photocatalytic efficiency by layer-by-layer self-assembly of graphene and titanium dioxide on shrink thermoplastic film. <i>Microsystem Technologies</i> , 2020 , 26, 3793-3798	1.7	
184	Photocurrent amplification of graphene intercalation with titanium dioxide in photoelectrochemical devices. <i>Sensors and Actuators A: Physical</i> , 2020 , 305, 111906	3.9	
183	A vibrating membrane working electrode for highly sensitive anodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020 , 311, 127948	8.5	3
182	Multifunctional 3D Micro-Nanostructures Fabricated through Temporally Shaped Femtosecond Laser Processing for Preventing Thrombosis and Bacterial Infection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17155-17166	9.5	13
181	Recent Progress of Biomarker Detection Sensors. <i>Research</i> , 2020 , 2020, 7949037	7.8	9
180	A highly sensitive photoelectrochemical sensor with polarity-switchable photocurrent for detection of trace hexavalent chromium. <i>Sensors and Actuators B: Chemical</i> , 2020 , 317, 128181	8.5	5
179	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. <i>Light: Science and Applications</i> , 2020 , 9, 80	16.7	31
178	Solution-gated nitrate sensitive field effect transistor with hybrid film: CVD graphene/polymer selective membrane. <i>Organic Electronics</i> , 2020 , 78, 105551	3.5	2

177	Interdiffusion Stomatal Movement in Efficient Multiple-Cation-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35105-35112	9.5	5
176	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. <i>Nature Communications</i> , 2020 , 11, 6185	17.4	34
175	Flexible micro-sensors with self-assembled graphene on a polyolefin substrate for dopamine detection. <i>Biosensors and Bioelectronics</i> , 2020 , 167, 112473	11.8	19
174	Graphene-Based Ion Sensitive-FET Sensor With Porous Anodic Aluminum Oxide Substrate for Nitrate Detection. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 966-971	2.5	2
173	Graphene-based temperature sensors suspended by anodic aluminum oxide. <i>Journal of Chemical Physics</i> , 2020 , 153, 084701	3.9	0
172	Femtosecond Laser Induced Phase Transformation of TiO with Exposed Reactive Facets for Improved Photoelectrochemistry Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41250-41258	9.5	7
171	Shrink-Induced Highly Sensitive Dopamine Sensor Based On Self-Assembly Graphene on Microelectrode 2019 ,		1
170	Heat transfer enhancement of air-cooled heat sink channel using a piezoelectric synthetic jet array. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118484	4.9	18
169	Hybrid superhydrophilic-superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. <i>Microsystems and Nanoengineering</i> , 2019 , 5, 48	7.7	15
168	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. <i>Nanophotonics</i> , 2019 , 8, 869-878	6.3	22
167	Shrink-Induced Microelectrode Arrays for Trace Mercury Ions Detection. <i>IEEE Sensors Journal</i> , 2019 , 19, 2435-2441	4	4
166	Simulation on biomarker sensor miniaturization based on metamaterial. <i>Modern Physics Letters B</i> , 2019 , 33, 1950135	1.6	0
165	Implantable Microelectrode Arrays for Epileptiform Electrical Signals Detection in the Awake Epileptic Mice 2019 ,		1
164	Ultrasensitive micro ion selective sensor arrays for multiplex heavy metal ions detection. <i>Microsystem Technologies</i> , 2019 , 25, 845-849	1.7	11
163	Ion sensitive field effect transistor based on graphene and ionophore hybrid membrane for phosphate detection. <i>Microsystem Technologies</i> , 2019 , 25, 3357-3364	1.7	4
162	Shrink-induced ultrasensitive mercury sensor with graphene and gold nanoparticles self-assembly. <i>Microsystem Technologies</i> , 2019 , 25, 11-17	1.7	4
161	Planar structured perovskite solar cells by hybrid physical chemical vapor deposition with optimized perovskite film thickness. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 052301	1.4	12
160	Electrons dynamics control by shaping femtosecond laser pulses in micro/nanofabrication: modeling, method, measurement and application. <i>Light: Science and Applications</i> , 2018 , 7, 17134	16.7	180

159	Mixed-potential-type NO ₂ sensors based on stabilized zirconia and CeO ₂ -B ₂ O ₃ (B = Fe, Cr) binary nanocomposites sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018 , 266, 793-804	8.5	16
158	High performance mixed-potential-type Zirconia-based NO ₂ sensor with self-organizing surface structures fabricated by low energy ion beam etching. <i>Sensors and Actuators B: Chemical</i> , 2018 , 263, 445-451	8.5	14
157	Control of PbI ₂ nucleation and crystallization: towards efficient perovskite solar cells based on vapor-assisted solution process. <i>Materials Research Express</i> , 2018 , 5, 045507	1.7	3
156	Self-assembled graphene and copper nanoparticles composite sensor for nitrate determination. <i>Microsystem Technologies</i> , 2018 , 24, 3623-3630	1.7	11
155	Nafion coated flexible bismuth sensor for trace lead and cadmium determination. <i>Microsystem Technologies</i> , 2018 , 24, 3697-3704	1.7	6
154	Active heat sink with piezoelectric translational agitators, piezoelectric synthetic jets, and micro pin fin arrays. <i>Experimental Thermal and Fluid Science</i> , 2018 , 99, 190-199	3	8
153	Trace Determination of Arsenite With an Ionophore-Coated Selective Micro Sensor. <i>IEEE Sensors Journal</i> , 2018 , 18, 4364-4371	4	2
152	Terahertz wave manipulation through coupling of spoof plasmonics and FabryPerot resonance. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 405101	3	3
151	Broadband plasmonic-enhanced forward and backward multiplex coherent anti-Stokes Raman scattering microscopy. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	
150	Sensitivity enhancement of a resonant mass sensor based on internal resonance. <i>Applied Physics Letters</i> , 2018 , 113, 223505	3.4	21
149	Numerical simulation and analysis of hybrid physical-chemical vapor deposition to grow uniform perovskite MAPbI ₃ . <i>Journal of Applied Physics</i> , 2017 , 121, 144903	2.5	5
148	Flexible Mixed-Potential-Type (MPT) NO ₂ Sensor Based on An Ultra-Thin Ceramic Film. <i>Sensors</i> , 2017 , 17,	3.8	4
147	2017 ,		4
146	Shrink-induced graphene sensor for alpha-fetoprotein detection with low-cost self-assembly and label-free assay. <i>Frontiers of Mechanical Engineering</i> , 2017 , 12, 574-580	3.3	2
145	Enhanced heat transfer of heat sink channels with micro pin fin roughened walls. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 617-627	4.9	57
144	High-frequency translational agitation with micro pin-fin surfaces for enhancing heat transfer of forced convection. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 354-365	4.9	11
143	Highly selective sensor for trace arsenite determination using anodic stripping voltammetry 2016 ,		1
142	Micro catalytic methane sensors based on 3D quartz structures with cone-shaped cavities etched by high-resolution abrasive sand blasting. <i>Sensors and Actuators A: Physical</i> , 2016 , 242, 9-17	3.9	15

141	A quartz-based micro catalytic methane sensor by high resolution screen printing. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 025021	2	4
140	Single-crystalline graphene radio-frequency nanoswitches. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 075022	2	2
139	A hybrid physical-chemical deposition process at ultra-low temperatures for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12436-12442	13	45
138	Heat transfer augmentation of a channel flow by active agitation and surface mounted cylindrical pin fins. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 87, 557-567	4.9	11
137	TiO ₂ and shrink induced tunable nano self-assembled graphene composites for label free biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 216, 337-342	8.5	17
136	High-performance perovskite solar cells fabricated by vapor deposition with optimized PbI ₂ precursor films. <i>RSC Advances</i> , 2015 , 5, 95847-95853	3.7	15
135	RF nano switch based on single crystalline graphene 2015 ,		2
134	An experimental study on the effects of agitation on convective heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 90, 302-313	4.9	3
133	High Crystalline Quality Perovskite Thin Films Prepared by a Novel Hybrid Evaporation/CVD Technique. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1771, 187-192		2
132	A low-cost and label-free alpha-fetoprotein sensor based on self-assembled graphene on shrink polymer 2015 ,		3
131	Towards intrinsic graphene biosensor: A label-free, suspended single crystalline graphene sensor for multiplex lung cancer tumor markers detection. <i>Biosensors and Bioelectronics</i> , 2015 , 72, 168-74	11.8	54
130	Micro catalytic methane sensor on bulk quartz substrate 2015 ,		1
129	Adhesion energy of few layer graphene characterized by atomic force microscope. <i>Sensors and Actuators A: Physical</i> , 2014 , 217, 56-61	3.9	17
128	Wafer-size free-standing single-crystalline graphene device arrays. <i>Applied Physics Letters</i> , 2014 , 105, 083118	3.4	3
127	Enhancing heat transfer in air-cooled heat sinks using piezoelectrically-driven agitators and synthetic jets. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 68, 184-193	4.9	22
126	Single-crystalline monolayer and multilayer graphene nano switches. <i>Applied Physics Letters</i> , 2014 , 104, 113110	3.4	14
125	Controllable fabrication and electromechanical characterization of electrophoresis assembled single-walled carbon nanotube-polymer film transducers. <i>Microsystem Technologies</i> , 2013 , 19, 1041-1047	7.7	1
124	Shrink induced nanostructures for energy conversion efficiency enhancement in photovoltaic devices. <i>Applied Physics Letters</i> , 2013 , 103, 023104	3.4	9

123	A parametric study of heat transfer in an air-cooled heat sink enhanced by actuated plates. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 792-801	4.9	16
122	The effects of hydride chemistry, particle size, and void fraction on micro fuel cell performance. <i>Journal of Power Sources</i> , 2013 , 243, 562-568	8.9	5
121	Micro fuel cell utilizing fuel cell water recovery and pneumatic valve. <i>Journal of Power Sources</i> , 2013 , 240, 1-7	8.9	5
120	Simulation study of extraordinary optical transmission induced by sub-wavelength nanopore arrays towards label-free biochemical analysis 2013 ,		2
119	Application of shrink induced three-dimensional structures to biosensor systems integrated with flexible solar cells 2013 ,		2
118	Wireless LTCC-based capacitive pressure sensor for harsh environment. <i>Sensors and Actuators A: Physical</i> , 2013 , 197, 30-37	3.9	60
117	Polymer shrinkage of hot embossed microstructures for higher aspect ratio and smaller size. <i>Sensors and Actuators A: Physical</i> , 2013 , 195, 21-26	3.9	11
116	Suspended Graphene Nanoribbon Ion-Sensitive Field-Effect Transistors Formed by Shrink Lithography for pH/Cancer Biomarker Sensing. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 1140-1146 ¹⁴	2.5	14
115	Effects of Channel Aspect Ratio on Convective Heat Transfer in an Electronics Cooling Heat Sink Having Agitation and Fan-Induced Throughflow 2013 ,		1
114	Molybdenum disulfide dc contact MEMS shunt switch. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 045026	2	11
113	Low-Cost Chemical Sensors Based on Shrink Polymer Microfluidics 2013 ,		1
112	Heat Transfer Enhancement of a Heat Sink by Inclined Synthetic Jets for Electronics Cooling 2013 ,		2
111	Ultra-sensitive suspended graphene nanocomposite cancer sensors with strong suppression of electrical noise. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 105-9	11.8	50
110	High-performance and low-cost ion sensitive sensor array based on self-assembled graphene. <i>Sensors and Actuators A: Physical</i> , 2012 , 177, 110-114	3.9	19
109	High frequency, large displacement, and low power consumption piezoelectric translational actuator based on an oval loop shell. <i>Sensors and Actuators A: Physical</i> , 2012 , 176, 99-109	3.9	47
108	Carbon nanotube thin film pH electrode for potentiometric enzymatic acetylcholine biosensing. <i>Microelectronic Engineering</i> , 2012 , 93, 39-42	2.5	18
107	Hot embossing at viscous state to enhance filling process for complex polymer structures. <i>Microsystem Technologies</i> , 2012 , 18, 257-265	1.7	17
106	Graphene cantilever beams for nano switches. <i>Applied Physics Letters</i> , 2012 , 101, 093111	3.4	39

105	Tunable mechanical properties of layer-by-layer self-assembled carbon nanotube/polymer nanocomposite membranes for M/NEMS. <i>Sensors and Actuators A: Physical</i> , 2012 , 185, 101-108	3.9	16
104	Suspended and highly aligned carbon nanotube thin-film structures using open microfluidic channel template. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 434-441	3.9	7
103	A role of silica nanoparticles in layer-by-layer self-assembled carbon nanotube and In ₂ O ₃ nanoparticle thin-film pH sensors: Tunable sensitivity and linearity. <i>Sensors and Actuators A: Physical</i> , 2012 , 188, 203-211	3.9	7
102	Low-cost shrink lithography with sub-22 nm resolution. <i>Applied Physics Letters</i> , 2012 , 100, 133113	3.4	7
101	Microfabrication of short pin fins on heat sink surfaces to augment heat transfer performance 2012 ,		3
100	Development of Synthetic Jet Arrays for Heat Transfer Enhancement in Air-Cooled Heat Sinks for Electronics Cooling 2012 ,		1
99	Noise Measurements and Reduction for High-Frequency Vibrating Devices in the Application of Cooling Electronics 2012 ,		1
98	Piezoelectric translational agitation for enhancing forced-convection channel-flow heat transfer. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 7398-7409	4.9	17
97	Tunable shrink induced graphene composites for chemical sensors and microfluidics 2012 ,		3
96	An Experimental Study on the Effects of Agitation in Generating Flow Unsteadiness and Enhancing Convective Heat Transfer 2012 ,		2
95	Raman spectrum method for characterization of pull-in voltages of graphene capacitive shunt switches. <i>Applied Physics Letters</i> , 2012 , 101, 263103	3.4	8
94	An electric detection of immunoglobulin G in the enzyme-linked immunosorbent assay using an indium oxide nanoparticle ion-sensitive field-effect transistor. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 015009	2	4
93	Fluid Damping and Power Consumption of Active Devices Used in Cooling Electronics 2012 ,		1
92	An Active Heat Sink System With Piezoelectric Translational Agitators and Micro Pin Fin Arrays 2012 ,		5
91	Convective Heat Transfer Enhancement With Micro Pin-Fin Surfaces Cooled by a Piezoelectrically-Driven Translational Agitator 2012 ,		4
90	Comparison of Heat Transfer Enhancement by Actuated Plates in Heat-Sink Channels 2012 ,		2
89	A conductometric indium oxide semiconducting nanoparticle enzymatic biosensor array. <i>Sensors</i> , 2011 , 11, 9300-12	3.8	15
88	Tunable mechanical properties of self-assembled SWNT/polymer nanocomposite films for MEMS 2011 ,		1

87	Wettability conversion from superoleophobic to superhydrophilic on titania/single-walled carbon nanotube composite coatings. <i>Langmuir</i> , 2011 , 27, 9295-301	4	49
86	An ultrasensitive and low-cost graphene sensor based on layer-by-layer nano self-assembly. <i>Applied Physics Letters</i> , 2011 , 98, 073116	3.4	121
85	Graphene fixed-end beam arrays based on mechanical exfoliation. <i>Applied Physics Letters</i> , 2011 , 98, 253105	3.4	41
84	High-performance and low-cost ion sensitive sensor array based on self-assembled graphene 2011 ,		1
83	Layer-by-layer self-assembly of single-walled carbon nanotubes with amine-functionalized weak polyelectrolytes for electrochemically tunable pH sensitivity. <i>Langmuir</i> , 2011 , 27, 3348-54	4	24
82	Enhancing Heat Transfer of Air-Cooled Heat Sinks Using Piezoelectrically-Driven Agitators and Synthetic Jets 2011 ,		4
81	An Experimental Study on the Effects of Agitation on Forced-Convection Heat Transfer 2011 ,		1
80	A Polymeric Piezoelectric Synthetic Jet for Electronic Cooling 2011 ,		3
79	Thermally enhanced single-walled carbon nanotube microfluidic alignment. <i>Microelectronic Engineering</i> , 2011 , 88, 2919-2923	2.5	5
78	A polymer-based bidirectional micropump driven by a PZT bimorph. <i>Microsystem Technologies</i> , 2011 , 17, 403-409	1.7	12
77	Carbon nanotube electric immunoassay for the detection of swine influenza virus H1N1. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3482-7	11.8	65
76	Bone formation on carbon nanotube composite. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 75-82	5.4	49
75	Suspended carbon nanotube nanocomposite beams with a high mechanical strength via layer-by-layer nano-self-assembly. <i>Nanotechnology</i> , 2011 , 22, 165601	3.4	11
74	A self-pumping and self-breathing micro direct methanol fuel cell with polymer bipolar plates. <i>Journal of Power Sources</i> , 2011 , 196, 7533-7540	8.9	20
73	Superhydrophilic surface modification of copper surfaces by Layer-by-Layer self-assembly and Liquid Phase Deposition of TiO ₂ thin film. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 1-6	9.3	36
72	Carbon nanotube based sensors for the detection of viruses. <i>Sensors and Actuators B: Chemical</i> , 2011 , 155, 67-74	8.5	32
71	Enhanced wetting properties of silicon mesh microchannels coated with SiO ₂ /SnO ₂ nanoparticles through layer-by-layer self assembly. <i>Sensors and Actuators B: Chemical</i> , 2011 , 157, 697-702	8.5	
70	High-performance surface-tension-driven capillary pumping based on layer-by-layer self assembly of TiO ₂ nanoparticles 2011 ,		1

69	A flexible tri-axis contact force sensor for tubular medical device applications. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 035004	2	3
68	Fabrication of polymer via holes by a combination of hot embossing and indentation processes. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 045032	2	9
67	Tunable wetting properties of patterned silicon microchannels with varied surface free energy based on layer-by-layer nano self-assembly. <i>Journal of Micromechanics and Microengineering</i> , 2011 , 21, 045015	2	5
66	A Computational Study of Active Heat Transfer Enhancement of Air-Cooled Heat Sinks by Actuated Plates 2011 ,		1
65	Convective Heat Transfer Enhancement on a Channel Wall With a High Frequency, Oscillating Agitator 2011 ,		6
64	A pure single-walled carbon nanotube thin film based three-terminal microelectromechanical switch. <i>Applied Physics Letters</i> , 2011 , 98, 073502	3-4	7
63	Aligned dense single-walled carbon nanotube beams and cantilevers for nanoelectromechanical systems applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010 , 28, 522-526	1-3	3
62	Characterization of carbon nanotube nanoswitches with gigahertz resonance frequency and low pull-in voltages using electrostatic force microscopy. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 105016	2	3
61	Low-cost, transparent, and flexible single-walled carbon nanotube nanocomposite based ion-sensitive field-effect transistors for pH/glucose sensing. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 2259-264	11-8	80
60	Micro Tactile Sensors with a Suspended and Oriented Single Walled Carbon Nanotube Beam Embedded in Polydimethylsiloxane Elastomer. <i>Sensor Letters</i> , 2010 , 8, 639-644	0-9	5
59	Well-aligned and suspended single-walled carbon nanotube film: Directed self-assembly, patterning, and characterization. <i>Applied Physics Letters</i> , 2009 , 94, 261903	3-4	24
58	Layer-by-Layer Nano Self-Assembly of pH Sensors Based on Polyelectrolytes and Carboxylated Carbon Nanotubes. <i>ECS Transactions</i> , 2009 , 16, 3-9	1	0
57	pH-dependent conductance behaviors of layer-by-layer self-assembled carboxylated carbon nanotube multilayer thin-film sensors. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 842		33
56	Humidity sensitivity of multi-walled carbon nanotube networks deposited by dielectrophoresis. <i>Sensors</i> , 2009 , 9, 1714-21	3-8	104
55	Thin-film transistors with controllable mobilities based on layer-by-layer self-assembled carbon nanotube composites. <i>Solid-State Electronics</i> , 2009 , 53, 1050-1055	1-7	8
54	Flexible and disposable immunosensors based on layer-by-layer self-assembled carbon nanotubes and biomolecules. <i>Sensors and Actuators A: Physical</i> , 2009 , 150, 280-285	3-9	24
53	Layer-by-Layer Self-Assembled Single-Walled Carbon Nanotubes Based Ion-Sensitive Conductometric Glucose Biosensors. <i>IEEE Sensors Journal</i> , 2009 , 9, 449-456	4	33
52	A 1.6 GHz NEMS actuator built from carbon nanotube layer by layer composite films 2009 ,		1

51	Functional 1.6 GHZ MEMS switch using aligned composite CNT membrane by dielectrophoretic self-assembly 2009 ,		1
50	. <i>IEEE Sensors Journal</i> , 2009 , 9, 1308-1314	4	33
49	A High-Resolution Amperometric Acetylcholine Sensor Based on Nano-Assembled Carbon Nanotube and Acetylcholinesterase Thin Films. <i>Journal of Nano Research</i> , 2008 , 1, 1-9	1	17
48	Electrical and electromechanical characteristics of self-assembled carbon nanotube thin films on flexible substrates. <i>Sensors and Actuators A: Physical</i> , 2008 , 145-146, 330-335	3.9	12
47	A thin-film transistor based acetylcholine sensor using self-assembled carbon nanotubes and SiO ₂ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2008 , 134, 981-987	8.5	47
46	Fabrication of carbon nanotube based transparent conductive thin films using layer-by-layer technology. <i>Surface and Coatings Technology</i> , 2008 , 202, 2002-2007	4.4	51
45	Self-Assembled Carbon Nanotube Multilayer Resistors and Nanotube/Nanoparticle Thin-Film Transistors as pH Sensors. <i>Sensor Letters</i> , 2008 , 6, 675-681	0.9	3
44	Active Control of Sound Transmission Through Windows With Carbon Nanotube-Based Transparent Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 704-714	4.8	11
43	Deposition and characterization of Pb(Zr,Ti)O ₃ sol-gel thin films for piezoelectric cantilever beams. <i>Smart Materials and Structures</i> , 2007 , 16, 93-99	3.4	4
42	Carbon nanotube micropatterns and cantilever arrays fabricated with layer-by-layer nano self-assembly. <i>Sensors and Actuators A: Physical</i> , 2007 , 136, 510-517	3.9	17
41	Acetylcholine biosensors based on layer-by-layer self-assembled polymer/nanoparticle ion-sensitive field-effect transistors. <i>Sensors and Actuators A: Physical</i> , 2007 , 136, 540-545	3.9	19
40	Ion-sensitive field-effect transistor based pH sensors using nano self-assembled polyelectrolyte/nanoparticle multilayer films. <i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 148-152	8.5	34
39	Polymer magnetic microactuators fabricated with hot embossing and layer-by-layer nano self-assembly. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 2647-53	1.3	3
38	A high-resolution amperometric acetylcholine biosensor based on nano self-assembly of carbon nanotubes 2007 ,		1
37	Electrical and Electromechanical Characteristics of Nanoassembled Carbon Nanotube Thin Film Resistors on Flexible Substrates 2007 ,		1
36	Characterization of layer-by-layer self-assembled carbon nanotube multilayer thin films. <i>Nanotechnology</i> , 2007 , 18, 145709	3.4	42
35	Thermal stress analyses of multilayered films on substrates and cantilever beams for micro sensors and actuators. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2509-2515	2	29
34	. <i>IEEE Sensors Journal</i> , 2006 , 6, 97-105	4	1

33	Piezoelectric Microcantilevers with Two PZT Thin-Film Elements for Microsensors and Microactuators 2006 ,		2
32	High-mobility transistors based on nanoassembled carbon nanotube semiconducting layer and SiO ₂ nanoparticle dielectric layer. <i>Applied Physics Letters</i> , 2006 , 89, 163512	3-4	39
31	Nano self-assembly for MEMS and microelectronics applications 2006 , 6032, 9		
30	Silica nanowires fabricated with layer-by-layer self-assembled nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1019-23	1-3	4
29	Carbon nanotube-based transparent thin film acoustic actuators and sensors. <i>Sensors and Actuators A: Physical</i> , 2006 , 132, 626-631	3-9	92
28	Carbon nanotube based transparent conductive thin films. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1939-44	1-3	37
27	Theoretical analysis of the sensing and actuating effects of piezoelectric multimorph cantilevers. <i>Microsystem Technologies</i> , 2006 , 12, 335-342	1-7	14
26	Power consumption analysis of surface acoustic wave sensor systems using ANSYS and PSPICE. <i>Microsystem Technologies</i> , 2006 , 13, 97-101	1-7	4
25	Fabrication of Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems 2006 ,		1
24	Glucose Biosensors Based on Layer-by-Layer Nano Self-Assembled Ion-Sensitive Field-Effect Transistors. <i>Sensor Letters</i> , 2006 , 4, 241-245	0.9	5
23	Comparison of selective attachment and growth of smooth muscle cells on gelatin- and fibronectin-coated micropatterns. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1809-15	1-3	25
22	Modeling and design of polymer-based tunneling accelerometers by ANSYS/MATLAB. <i>IEEE/ASME Transactions on Mechatronics</i> , 2005 , 10, 468-472	5-5	6
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17	Field-effect transistors with layer-by-layer self-assembled nanoparticle thin films as channel and gate dielectric. <i>Applied Physics Letters</i> , 2005 , 87, 183105	3-4	17
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14	FET fabricated by layer-by-layer nanoassembly. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 503-506	2.9	23
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11	Fabrication of 3-D gelatin-patterned glass substrates with layer-by-layer and lift-off (LbL-LO) technology. <i>IEEE Nanotechnology Magazine</i> , 2004 , 3, 115-123	2.6	9
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9	Fabrication and characterization of metal/oxide/semiconductor capacitor based on layer-by-layer self-assembled thin films. <i>Nanotechnology</i> , 2003 , 14, 453-457	3.4	27
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