

Tianhong Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5949788/publications.pdf>

Version: 2024-02-01

239
papers

4,734
citations

94269

37
h-index

123241

61
g-index

239
all docs

239
docs citations

239
times ranked

5790
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation and Experiments on a Valveless Micropump With Fluidic Diodes Based on Topology Optimization. <i>Journal of Microelectromechanical Systems</i> , 2022, 31, 292-297.	1.7	6
2	Vibrating an air bubble to enhance mass transfer for an ultra-sensitive electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131218.	4.0	2
3	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.	1.2	6
4	A Non-Enzymatic Electrochemical Sensor Using a Wrinkled Gold Film on Shrink Polymer. <i>IEEE Sensors Journal</i> , 2021, 21, 5711-5719.	2.4	1
5	High-Performance Perovskite Solar Cells Fabricated by a Hybrid Physical-Chemical Vapor Deposition. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021, 143, .	1.1	3
6	A Circular Vibrating Electrode with Enhanced Mass Transfer for High-Performance Electrochemical Sensors. , 2021, , .		1
7	Highly Sensitive Sensor Based on Graphene and Gold Nanoparticles for Dopamine Selective Detection. , 2021, , .		0
8	A Fluidic Diode and Its Application to a Valveless Micropump. , 2021, , .		1
9	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, .	1.1	3
10	Flexible Electrochemical Sensor With Graphene and Gold Nanoparticles to Detect Dopamine and Uric Acid. <i>IEEE Sensors Journal</i> , 2021, 21, 26556-26565.	2.4	17
11	Progress of shrink polymer micro- and nanomanufacturing. <i>Microsystems and Nanoengineering</i> , 2021, 7, 88.	3.4	12
12	Solution-gated nitrate sensitive field effect transistor with hybrid film: CVD graphene/polymer selective membrane. <i>Organic Electronics</i> , 2020, 78, 105551.	1.4	6
13	Interdiffusion Stomatal Movement in Efficient Multiple-Cation-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35105-35112.	4.0	8
14	Laser photonic-reduction stamping for graphene-based micro-supercapacitors ultrafast fabrication. <i>Nature Communications</i> , 2020, 11, 6185.	5.8	93
15	Flexible micro-sensors with self-assembled graphene on a polyolefin substrate for dopamine detection. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112473.	5.3	43
16	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.	1.7	5
17	Graphene-based temperature sensors suspended by anodic aluminum oxide. <i>Journal of Chemical Physics</i> , 2020, 153, 084701.	1.2	5
18	Femtosecond Laser Induced Phase Transformation of TiO ₂ with Exposed Reactive Facets for Improved Photoelectrochemistry Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41250-41258.	4.0	14

#	ARTICLE	IF	CITATIONS
19	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.	1.2	2
20	Photocurrent amplification of graphene intercalation with titanium dioxide in photoelectrochemical devices. <i>Sensors and Actuators A: Physical</i> , 2020, 305, 111906.	2.0	0
21	A vibrating membrane working electrode for highly sensitive anodic stripping voltammetry. <i>Sensors and Actuators B: Chemical</i> , 2020, 311, 127948.	4.0	3
22	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.	4.0	28
23	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.	4.0	23
24	Ultrafast optical response and ablation mechanisms of molybdenum disulfide under intense femtosecond laser irradiation. <i>Light: Science and Applications</i> , 2020, 9, 80.	7.7	63
25	Recent Progress of Biomarker Detection Sensors. <i>Research</i> , 2020, 2020, 7949037.	2.8	28
26	Facile Fabrication of a Shrink-Induced Ultrasensitive Microelectrode Arrays Modified with Graphene /BI Nanoparticles Film for Trace Lead Ions Detection. , 2019, , .		0
27	Shrink-Induced Highly Sensitive Dopamine Sensor Based On Self-Assembly Graphene on Microelectrode. , 2019, , .		1
28	A Low-Cost Ion Selective Nitrate Sensor Based On Self-Assembled Graphene Microelectrode Arrays. , 2019, , .		2
29	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.	2.5	35
30	Hybrid superhydrophilicâ€“superhydrophobic micro/nanostructures fabricated by femtosecond laser-induced forward transfer for sub-femtomolar Raman detection. <i>Microsystems and Nanoengineering</i> , 2019, 5, 48.	3.4	32
31	Fabrication of highly homogeneous and controllable nanogratings on silicon via chemical etching-assisted femtosecond laser modification. <i>Nanophotonics</i> , 2019, 8, 869-878.	2.9	47
32	Shrink-Induced Microelectrode Arrays for Trace Mercury Ions Detection. <i>IEEE Sensors Journal</i> , 2019, 19, 2435-2441.	2.4	6
33	Simulation on biomarker sensor miniaturization based on metamaterial. <i>Modern Physics Letters B</i> , 2019, 33, 1950135.	1.0	1
34	Implantable Microelectrode Arrays for Epileptiform Electrical Signals Detection in the Awake Epileptic Mice. , 2019, , .		1
35	Formaldehyde Gas Sensor Based on Hybrid Film: Graphene/Enzyme. , 2019, , .		0
36	Ultrasensitive micro ion selective sensor arrays for multiplex heavy metal ions detection. <i>Microsystem Technologies</i> , 2019, 25, 845-849.	1.2	11

#	ARTICLE	IF	CITATIONS
37	Ion sensitive field effect transistor based on graphene and ionophore hybrid membrane for phosphate detection. <i>Microsystem Technologies</i> , 2019, 25, 3357-3364.	1.2	8
38	Shrink-induced ultrasensitive mercury sensor with graphene and gold nanoparticles self-assembly. <i>Microsystem Technologies</i> , 2019, 25, 11-17.	1.2	8
39	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.	0.8	14
40	Electrons dynamics control by shaping femtosecond laser pulses in micro/nanofabrication: modeling, method, measurement and application. <i>Light: Science and Applications</i> , 2018, 7, 17134-17134.	7.7	292
41	Mixed-potential-type NO ₂ sensors based on stabilized zirconia and CeO ₂ -B ₂ O ₃ (B ³⁺ =Fe, Cr) binary nanocomposites sensing electrodes. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 793-804.	4.0	23
42	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.	4.0	21
43	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.	0.8	3
44	Self-assembled graphene and copper nanoparticles composite sensor for nitrate determination. <i>Microsystem Technologies</i> , 2018, 24, 3623-3630.	1.2	16
45	Nafion coated flexible bismuth sensor for trace lead and cadmium determination. <i>Microsystem Technologies</i> , 2018, 24, 3697-3704.	1.2	8
46	Solution-Gated Ion-Sensitive Field Effect Transistor With Polymer Selective Membrane for Nitrate Detection. , 2018, , .		1
47	Sensitivity enhancement of a resonant mass sensor based on internal resonance. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	35
48	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.	1.5	17
49	Trace Determination of Arsenite With an Ionophore-Coated Selective Micro Sensor. <i>IEEE Sensors Journal</i> , 2018, 18, 4364-4371.	2.4	5
50	Terahertz wave manipulation through coupling of spoof plasmonics and Fabry-Perot resonance. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 405101.	1.3	3
51	Broadband plasmonic-enhanced forward and backward multiplex coherent anti-Stokes Raman scattering microscopy. <i>Optical Engineering</i> , 2018, 57, 1.	0.5	0
52	<i>Research:</i> The First Science Partner Journal. <i>Research</i> , 2018, 2018, 1340806.	2.8	0
53	Ultrasensitive micro sensor based on layer-by-layer self-assembled graphene and bismuth nanoparticles for trace lead ions determination. , 2017, , .		0
54	Numerical simulation and analysis of hybrid physical-chemical vapor deposition to grow uniform perovskite MAPbI ₃ . <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	7

#	ARTICLE	IF	CITATIONS
55	Overseas offices: a new attempt to disseminate Light. Light: Science and Applications, 2017, 6, e16230-e16230.	7.7	0
56	An ultrasensitive mercury sensor based on self-assembled graphene and gold nanoparticles on shrink polymer. , 2017, , .		4
57	Shrink-induced graphene sensor for alpha-fetoprotein detection with low-cost self-assembly and label-free assay. Frontiers of Mechanical Engineering, 2017, 12, 574-580.	2.5	3
58	Biosensor Based on Layer by Layer Deposited Phosphorene Nanoparticles for Liver Cancer Detection. , 2017, , .		1
59	A self-assembled graphene-based micro flow meter by streaming potential effect. , 2017, , .		2
60	Highly sensitive micro sensor with nafion coated bismuth for trace lead determination. , 2017, , .		2
61	Flexible Mixed-Potential-Type (MPT) NO ₂ Sensor Based on An Ultra-Thin Ceramic Film. Sensors, 2017, 17, 1740.	2.1	6
62	A quartz-based micro catalytic methane sensor by high resolution screen printing. Journal of Micromechanics and Microengineering, 2016, 26, 025021.	1.5	5
63	One-year anniversary: The progress of Microsystems & Nanoengineering. Microsystems and Nanoengineering, 2016, 2, 16046.	3.4	1
64	Elapsed time of light: science & applications. Light: Science and Applications, 2016, 5, e16021-e16021.	7.7	0
65	High-frequency translational agitation with micro pin-fin surfaces for enhancing heat transfer of forced convection. International Journal of Heat and Mass Transfer, 2016, 94, 354-365.	2.5	17
66	Highly selective sensor for trace arsenite determination using anodic stripping voltammetry. , 2016, , .		1
67	Micro catalytic methane sensors based on 3D quartz structures with cone-shaped cavities etched by high-resolution abrasive sand blasting. Sensors and Actuators A: Physical, 2016, 242, 9-17.	2.0	16
68	Enhanced heat transfer of heat sink channels with micro pin fin roughened walls. International Journal of Heat and Mass Transfer, 2016, 92, 617-627.	2.5	79
69	High Crystalline Quality Perovskite Thin Films Prepared by a Novel Hybrid Evaporation/CVD Technique. Materials Research Society Symposia Proceedings, 2015, 1771, 187-192.	0.1	3
70	Unsteady Heat Flux Measurements in Agitated Channel Flows. , 2015, , .		0
71	The First Engineering Journal from Nature Publishing Group: Microsystems & Nanoengineering. Microsystems and Nanoengineering, 2015, 1, .	3.4	2
72	A low-cost and label-free alpha-fetoprotein sensor based on self-assembled graphene on shrink polymer. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
73	High-performance and low-cost lung cancer sensor array based on self-assembled graphene. , 2015, , .		0
74	Towards intrinsic graphene biosensor: A label-free, suspended single crystalline graphene sensor for multiplex lung cancer tumor markers detection. Biosensors and Bioelectronics, 2015, 72, 168-174.	5.3	68
75	Micro catalytic methane sensor on bulk quartz substrate. , 2015, , .		1
76	Single-crystalline graphene radio-frequency nanoswitches. Journal of Micromechanics and Microengineering, 2015, 25, 075022.	1.5	2
77	A hybrid physical-chemical deposition process at ultra-low temperatures for high-performance perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 12436-12442.	5.2	49
78	Heat transfer augmentation of a channel flow by active agitation and surface mounted cylindrical pin fins. International Journal of Heat and Mass Transfer, 2015, 87, 557-567.	2.5	12
79	TiO ₂ and shrink induced tunable nano self-assembled graphene composites for label free biosensors. Sensors and Actuators B: Chemical, 2015, 216, 337-342.	4.0	17
80	High-performance perovskite solar cells fabricated by vapor deposition with optimized PbI ₂ precursor films. RSC Advances, 2015, 5, 95847-95853.	1.7	18
81	RF nano switch based on single crystalline graphene. , 2015, , .		4
82	An experimental study on the effects of agitation on convective heat transfer. International Journal of Heat and Mass Transfer, 2015, 90, 302-313.	2.5	3
83	Prospect of Light: Science & Applications. Light: Science and Applications, 2014, 3, e128-e128.	7.7	3
84	Low-cost and high-performance micro-channel integrated biosensor systems. , 2014, , .		0
85	Single-crystalline monolayer and multilayer graphene nano switches. Applied Physics Letters, 2014, 104, .	1.5	17
86	Adhesion energy of few layer graphene characterized by atomic force microscope. Sensors and Actuators A: Physical, 2014, 217, 56-61.	2.0	21
87	Wafer-size free-standing single-crystalline graphene device arrays. Applied Physics Letters, 2014, 105, .	1.5	3
88	Enhancing heat transfer in air-cooled heat sinks using piezoelectrically-driven agitators and synthetic jets. International Journal of Heat and Mass Transfer, 2014, 68, 184-193.	2.5	36
89	The Effects of Agitator Blade Geometry and Configuration for Augmenting Heat Transfer by Agitation in Channel Flows. , 2014, , .		0
90	TiO ₂ and shrink induced tunable graphene composites based on nano self assembly for biosensors. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
91	Controllable fabrication and electromechanical characterization of electrophoresis assembled single-walled carbon nanotube-polymer film transducers. <i>Microsystem Technologies</i> , 2013, 19, 1041-1047.	1.2	1
92	Shrink induced nanostructures for energy conversion efficiency enhancement in photovoltaic devices. <i>Applied Physics Letters</i> , 2013, 103, 023104.	1.5	12
93	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.	2.5	23
94	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.	4.0	7
95	Micro fuel cell utilizing fuel cell water recovery and pneumatic valve. <i>Journal of Power Sources</i> , 2013, 240, 1-7.	4.0	10
96	Simulation study of extraordinary optical transmission induced by sub-wavelength nanopore arrays towards label-free biochemical analysis. , 2013, , .		2
97	Application of shrink induced three-dimensional structures to biosensor systems integrated with flexible solar cells. , 2013, , .		2
98	Wireless LTCC-based capacitive pressure sensor for harsh environment. <i>Sensors and Actuators A: Physical</i> , 2013, 197, 30-37.	2.0	68
99	Polymer shrinkage of hot embossed microstructures for higher aspect ratio and smaller size. <i>Sensors and Actuators A: Physical</i> , 2013, 195, 21-26.	2.0	11
100	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.	1.7	17
101	Effects of Channel Aspect Ratio on Convective Heat Transfer in an Electronics Cooling Heat Sink Having Agitation and Fan-Induced Throughflow. , 2013, , .		1
102	Low-cost and flexible VEGF sensors based on microfluidic induced tunable graphene films. , 2013, , .		0
103	Molybdenum disulfide dc contact MEMS shunt switch. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 045026.	1.5	12
104	On the road: the progress of Light: Science & Applications. <i>Light: Science and Applications</i> , 2013, 2, e49-e49.	7.7	0
105	Improved performance of self-assembled graphene biosensors integrated with shrink-induced tunable morphology of silver nanoparticles. , 2013, , .		0
106	Low-Cost Chemical Sensors Based on Shrink Polymer Microfluidics. , 2013, , .		1
107	Heat Transfer Enhancement of a Heat Sink by Inclined Synthetic Jets for Electronics Cooling. , 2013, , .		2
108	Piezoelectric Synthetic Jet Integrated With Heat Sink for Heat Transfer Enhancement. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
109	Raman spectrum method for characterization of pull-in voltages of graphene capacitive shunt switches. Applied Physics Letters, 2012, 101, 263103.	1.5	8
110	Weighted area technique for electromechanically enabled logic computation with cantilever-based NEMS switches. , 2012, , .		1
111	An electric detection of immunoglobulin G in the enzyme-linked immunosorbent assay using an indium oxide nanoparticle ion-sensitive field-effect transistor. Journal of Micromechanics and Microengineering, 2012, 22, 015009.	1.5	4
112	Fluid Damping and Power Consumption of Active Devices Used in Cooling Electronics. , 2012, , .		1
113	An Active Heat Sink System With Piezoelectric Translational Agitators and Micro Pin Fin Arrays. , 2012, , .		5
114	Convective Heat Transfer Enhancement With Micro Pin-Fin Surfaces Cooled by a Piezoelectrically-Driven Translational Agitator. , 2012, , .		4
115	Heat Transfer Enhancement by Synthetic Jet Arrays in Air-Cooled Heat Sinks for Use in Electronics Cooling. , 2012, , .		0
116	Comparison of Heat Transfer Enhancement by Actuated Plates in Heat-Sink Channels. , 2012, , .		2
117	Graphene cantilever beams for nano switches. Applied Physics Letters, 2012, 101, 093111.	1.5	46
118	Tunable mechanical properties of layer-by-layer self-assembled carbon nanotube/polymer nanocomposite membranes for M/NEMS. Sensors and Actuators A: Physical, 2012, 185, 101-108.	2.0	17
119	Suspended and highly aligned carbon nanotube thin-film structures using open microfluidic channel template. Sensors and Actuators A: Physical, 2012, 188, 434-441.	2.0	8
120	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. Sensors and Actuators A: Physical, 2012, 188, 203-211.	2.0	8
121	Low-cost shrink lithography with sub-22%nm resolution. Applied Physics Letters, 2012, 100, 133113.	1.5	11
122	Microfabrication of short pin fins on heat sink surfaces to augment heat transfer performance. , 2012, , .		3
123	Development of Synthetic Jet Arrays for Heat Transfer Enhancement in Air-Cooled Heat Sinks for Electronics Cooling. , 2012, , .		1
124	Noise Measurements and Reduction for High-Frequency Vibrating Devices in the Application of Cooling Electronics. , 2012, , .		1
125	Piezoelectric translational agitation for enhancing forced-convection channel-flow heat transfer. International Journal of Heat and Mass Transfer, 2012, 55, 7398-7409.	2.5	23
126	Tunable shrink induced graphene composites for chemical sensors and microfluidics. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
127	An Experimental Study on the Effects of Agitation in Generating Flow Unsteadiness and Enhancing Convective Heat Transfer. , 2012, , .		2
128	Ultra-sensitive suspended graphene nanocomposite cancer sensors with strong suppression of electrical noise. Biosensors and Bioelectronics, 2012, 31, 105-109.	5.3	55
129	High-performance and low-cost ion sensitive sensor array based on self-assembled graphene. Sensors and Actuators A: Physical, 2012, 177, 110-114.	2.0	20
130	High frequency, large displacement, and low power consumption piezoelectric translational actuator based on an oval loop shell. Sensors and Actuators A: Physical, 2012, 176, 99-109.	2.0	53
131	Carbon nanotube thin film pH electrode for potentiometric enzymatic acetylcholine biosensing. Microelectronic Engineering, 2012, 93, 39-42.	1.1	22
132	Hot embossing at viscous state to enhance filling process for complex polymer structures. Microsystem Technologies, 2012, 18, 257-265.	1.2	18
133	Dynamic characteristic analysis and experiments of flexible structure based on electroactive polymer film. Guangxue Jingmi Gongcheng/Optics and Precision Engineering, 2012, 20, 2728-2736.	0.2	0
134	Suspended carbon nanotube nanocomposite beams with a high mechanical strength via layer-by-layer nano-self-assembly. Nanotechnology, 2011, 22, 165601.	1.3	13
135	Enhanced dynamic electromechanical properties of electrophoresis assembled carbon nanotube-polymer piezoelectric transducers. , 2011, , .		0
136	A Conductometric Indium Oxide Semiconducting Nanoparticle Enzymatic Biosensor Array. Sensors, 2011, 11, 9300-9312.	2.1	18
137	Tunable mechanical properties of self-assembled SWNT/polymer nanocomposite films for MEMS. , 2011, , .		1
138	Wettability Conversion from Superoleophobic to Superhydrophilic on Titania/Single-Walled Carbon Nanotube Composite Coatings. Langmuir, 2011, 27, 9295-9301.	1.6	57
139	An ultrasensitive and low-cost graphene sensor based on layer-by-layer nano self-assembly. Applied Physics Letters, 2011, 98, 073116.	1.5	135
140	Graphene fixed-end beam arrays based on mechanical exfoliation. Applied Physics Letters, 2011, 98, .	1.5	49
141	High-performance and low-cost ion sensitive sensor array based on self-assembled graphene. , 2011, , .		1
142	A three-terminal single-walled carbon nanotube thin film MEMS switch for digital logic applications. , 2011, , .		0
143	Layer-by-Layer Self-Assembly of Single-Walled Carbon Nanotubes with Amine-Functionalized Weak Polyelectrolytes for Electrochemically Tunable pH Sensitivity. Langmuir, 2011, 27, 3348-3354.	1.6	29
144	Enhancing Heat Transfer of Air-Cooled Heat Sinks Using Piezoelectrically-Driven Agitators and Synthetic Jets. , 2011, , .		4

#	ARTICLE	IF	CITATIONS
145	An Experimental Study on the Effects of Agitation on Forced-Convection Heat Transfer. , 2011, , .		1
146	A Polymeric Piezoelectric Synthetic Jet for Electronic Cooling. , 2011, , .		4
147	Thermally enhanced single-walled carbon nanotube microfluidic alignment. Microelectronic Engineering, 2011, 88, 2919-2923.	1.1	5
148	A polymer-based bidirectional micropump driven by a PZT bimorph. Microsystem Technologies, 2011, 17, 403-409.	1.2	15
149	Carbon nanotube electric immunoassay for the detection of swine influenza virus H1N1. Biosensors and Bioelectronics, 2011, 26, 3482-3487.	5.3	82
150	Bone formation on carbon nanotube composite. Journal of Biomedical Materials Research - Part A, 2011, 96A, 75-82.	2.1	55
151	A self-pumping and self-breathing micro direct methanol fuel cell with polymer bipolar plates. Journal of Power Sources, 2011, 196, 7533-7540.	4.0	21
152	Superhydrophilic surface modification of copper surfaces by Layer-by-Layer self-assembly and Liquid Phase Deposition of TiO ₂ thin film. Journal of Colloid and Interface Science, 2011, 354, 1-6.	5.0	43
153	Carbon nanotube based sensors for the detection of viruses. Sensors and Actuators B: Chemical, 2011, 155, 67-74.	4.0	36
154	Enhanced wetting properties of silicon mesh microchannels coated with SiO ₂ /SnO ₂ nanoparticles through layer-by-layer self assembly. Sensors and Actuators B: Chemical, 2011, 157, 697-702.	4.0	1
155	High-performance surface-tension-driven capillary pumping based on layer-by-layer self assembly of TiO ₂ nanoparticles. , 2011, , .		3
156	Microfluidic valves based on TiO ₂ coating with tunable surface wettability between super hydrophilic and super hydrophobic. , 2011, , .		1
157	A flexible tri-axis contact force sensor for tubular medical device applications. Journal of Micromechanics and Microengineering, 2011, 21, 035004.	1.5	3
158	Fabrication of polymer via holes by a combination of hot embossing and indentation processes. Journal of Micromechanics and Microengineering, 2011, 21, 045032.	1.5	9
159	Tunable wetting properties of patterned silicon microchannels with varied surface free energy based on layer-by-layer nano self-assembly. Journal of Micromechanics and Microengineering, 2011, 21, 045015.	1.5	6
160	A Computational Study of Active Heat Transfer Enhancement of Air-Cooled Heat Sinks by Actuated Plates. , 2011, , .		1
161	Convective Heat Transfer Enhancement on a Channel Wall With a High Frequency, Oscillating Agitator. , 2011, , .		9
162	Study on the wireless transmission performance of the passive pressure sensor. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
163	Tunable sensitivity and linearity of self-assembled carbon nanotube composite based pH biosensors using silica nanoparticles. , 2011, , .		0
164	Suspended carbon nanotube thin film structures with high degree of alignment for NEMS switch applications. , 2011, , .		0
165	A pure single-walled carbon nanotube thin film based three-terminal microelectromechanical switch. Applied Physics Letters, 2011, 98, 073502.	1.5	7
166	Low-cost, transparent, and flexible single-walled carbon nanotube nanocomposite based ion-sensitive field-effect transistors for pH/glucose sensing. Biosensors and Bioelectronics, 2010, 25, 2259-2264.	5.3	99
167	Aligned dense single-walled carbon nanotube beams and cantilevers for nanoelectromechanical systems applications. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 522-526.	0.6	3
168	Carbon Nanotubes Swine Influenza (H1N1) Virus Sensors. , 2010, , .		0
169	Characterization of carbon nanotube nanoswitches with gigahertz resonance frequency and low pull-in voltages using electrostatic force microscopy. Journal of Micromechanics and Microengineering, 2010, 20, 105016.	1.5	3
170	Synthesis of Ultra-Thin Superhydrophilic Titanium Oxide Film and its Effects on the Capillary of Microchannels. , 2010, , .		1
171	Micro Tactile Sensors with a Suspended and Oriented Single Walled Carbon Nanotube Beam Embedded in Polydimethylsiloxane Elastomer. Sensor Letters, 2010, 8, 639-644.	0.4	5
172	Micro tactile sensors with a suspended and oriented single walled carbon nanotube beam embedded in PDMS elastomer. , 2009, , .		1
173	Well-aligned and suspended single-walled carbon nanotube film: Directed self-assembly, patterning, and characterization. Applied Physics Letters, 2009, 94, .	1.5	32
174	Layer-by-Layer Nano Self-Assembly of pH Sensors Based on Polyelectrolytes and Carboxylated Carbon Nanotubes. ECS Transactions, 2009, 16, 3-9.	0.3	1
175	Wetting Properties of Patterned Silicon Microchannels With Tunable Surface Energy Using Layer-by-Layer Nano Self-Assembly. , 2009, , .		0
176	p H -dependent conductance behaviors of layer-by-layer self-assembled carboxylated carbon nanotube multilayer thin-film sensors. Journal of Vacuum Science & Technology B, 2009, 27, 842-848.	1.3	37
177	Humidity Sensitivity of Multi-Walled Carbon Nanotube Networks Deposited by Dielectrophoresis. Sensors, 2009, 9, 1714-1721.	2.1	112
178	Thin-film transistors with controllable mobilities based on layer-by-layer self-assembled carbon nanotube composites. Solid-State Electronics, 2009, 53, 1050-1055.	0.8	10
179	Flexible and disposable immunosensors based on layer-by-layer self-assembled carbon nanotubes and biomolecules. Sensors and Actuators A: Physical, 2009, 150, 280-285.	2.0	26
180	Wetting properties of silicon mesh microchannels coated with SiO ₂ /SnO ₂ nanoparticles using layer-by-layer nano self assembly. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
181	Layer-by-Layer Self-Assembled Single-Walled Carbon Nanotubes Based Ion-Sensitive Conductometric Glucose Biosensors. IEEE Sensors Journal, 2009, 9, 449-456.	2.4	35
182	A 1.6 GHz NEMS actuator built from carbon nanotube layer by layer composite films. , 2009, , .		1
183	Functional 1.6 GHz MEMS switch using aligned composite CNT membrane by dielectrophoretic self-assembly. , 2009, , .		2
184	Humidity Sensitivity of Carbon Nanotube and Poly (Dimethyldiallylammonium Chloride) Composite Films. IEEE Sensors Journal, 2009, 9, 1308-1314.	2.4	40
185	Fabrication and Characterization of Suspended Single-Walled Carbon Nanotubes Composite Beams. , 2009, , .		0
186	Electrical and electromechanical characteristics of self-assembled carbon nanotube thin films on flexible substrates. Sensors and Actuators A: Physical, 2008, 145-146, 330-335.	2.0	18
187	A thin-film transistor based acetylcholine sensor using self-assembled carbon nanotubes and SiO ₂ nanoparticles. Sensors and Actuators B: Chemical, 2008, 134, 981-987.	4.0	51
188	Fabrication of carbon nanotube based transparent conductive thin films using layer-by-layer technology. Surface and Coatings Technology, 2008, 202, 2002-2007.	2.2	55
189	Flexible and disposable immunosensors based on layer-by-layer self-assembled carbon nanotubes and biomolecules. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	0
190	A High-Resolution Amperometric Acetylcholine Sensor Based on Nano-Assembled Carbon Nanotube and Acetylcholinesterase Thin Films. Journal of Nano Research, 2008, 1, 1-9.	0.8	19
191	Self-Assembled Carbon Nanotube Multilayer Resistors and Nanotube/Nanoparticle Thin-Film Transistors as pH Sensors. Sensor Letters, 2008, 6, 675-681.	0.4	4
192	Fabrication and Characterization of the Piezoelectric Microcantilever Integrated with PZT Thin-Film Microforce Sensor and Actuator. , 2007, , .		0
193	A high-resolution amperometric acetylcholine biosensor based on nano self-assembly of carbon nanotubes. , 2007, , .		1
194	Electrical and Electromechanical Characteristics of Nanoassembled Carbon Nanotube Thin Film Resistors on Flexible Substrates. , 2007, , .		1
195	Characterization of layer-by-layer self-assembled carbon nanotube multilayer thin films. Nanotechnology, 2007, 18, 145709.	1.3	46
196	Active Control of Sound Transmission Through Windows With Carbon Nanotube-Based Transparent Actuators. IEEE Transactions on Control Systems Technology, 2007, 15, 704-714.	3.2	14
197	Nano Self-Assembled Nanoparticle Ion-Sensitive Field-Effect Transistors for Acetylcholine Biosensing. , 2007, , .		1
198	Deposition and Characterization of Layer-by-Layer Nano Self-Assembled Carbon Nanotube Multilayer Thin Films. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
199	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.	1.8	5
200	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.	2.0	21
201	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.	2.0	24
202	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.	4.0	41
203	Polymer Magnetic Microactuators Fabricated with Hot Embossing and Layer-by-Layer Nano Self-Assembly. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2647-2653.	0.9	3
204	High-mobility transistors based on nanoassembled carbon nanotube semiconducting layer and SiO ₂ nanoparticle dielectric layer. <i>Applied Physics Letters</i> , 2006, 89, 163512.	1.5	48
205	Nano self-assembly for MEMS and microelectronics applications. , 2006, 6032, 9.		1
206	Silica Nanowires Fabricated with Layer-by-Layer Self-Assembled Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1019-1023.	0.9	4
207	Carbon nanotube-based transparent thin film acoustic actuators and sensors. <i>Sensors and Actuators A: Physical</i> , 2006, 132, 626-631.	2.0	110
208	Carbon Nanotube Based Transparent Conductive Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2006, 6, 1939-1944.	0.9	39
209	Theoretical analysis of the sensing and actuating effects of piezoelectric multimorph cantilevers. <i>Microsystem Technologies</i> , 2006, 12, 335-342.	1.2	18
210	Power consumption analysis of surface acoustic wave sensor systems using ANSYS and PSPICE. <i>Microsystem Technologies</i> , 2006, 13, 97-101.	1.2	5
211	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.	1.5	40
212	A micromachined wide-bandwidth magnetic field sensor based on all-PMMA electron tunneling transducer. <i>IEEE Sensors Journal</i> , 2006, 6, 97-105.	2.4	2
213	Active Control of Sound Transmission through Windows with Carbon Nanotube based Transparent Actuators and Moving Noise Source Identification. , 2006, , .		1
214	Piezoelectric Microcantilevers with Two PZT Thin-Film Elements for Microsensors and Microactuators. , 2006, , .		5
215	Fabrication of Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems. , 2006, , .		2
216	Glucose Biosensors Based on Layer-by-Layer Nano Self-Assembled Ion-Sensitive Field-Effect Transistors. <i>Sensor Letters</i> , 2006, 4, 241-245.	0.4	5

#	ARTICLE	IF	CITATIONS
217	Polymer-Based Rectifying Diodes on a Glass Substrate Fabricated by Ink-Jet Printing. <i>Macromolecular Rapid Communications</i> , 2005, 26, 289-292.	2.0	26
218	Low-Voltage All-Polymer Field-Effect Transistor Fabricated Using an Inkjet Printing Technique. <i>Macromolecular Rapid Communications</i> , 2005, 26, 1955-1959.	2.0	63
219	Design, simulation, fabrication, and characterization of a PMMA tunneling sensor based on hot embossing technique. <i>Microsystem Technologies</i> , 2005, 11, 452-455.	1.2	5
220	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.	1.5	20
221	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, 1809-1815.	0.9	26
222	Modeling and Design of Polymer-Based Tunneling Accelerometers by ANSYS/MATLAB. <i>IEEE/ASME Transactions on Mechatronics</i> , 2005, 10, 468-472.	3.7	8
223	Polymer-based wide-bandwidth and high-sensitivity micromachined electron tunneling accelerometers using hot embossing. <i>Journal of Microelectromechanical Systems</i> , 2005, 14, 895-902.	1.7	11
224	Integrated Pressure-Flow-Temperature Sensor for Hydraulic Systems. , 2005, , .		2
225	Micromachining of SrTiO ₃ steps for high-T _c step edge junction dc SQUIDs. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1-5.	1.5	321
226	FET Fabricated by Layer-by-Layer Nanoassembly. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 503-506.	1.6	27
227	Fabrication and Characterization of Polymeric P-Channel Junction FETs. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 389-393.	1.6	4
228	Piezoelectric thin films formed by MOD on cantilever beams for micro sensors and actuators. <i>Microsystem Technologies</i> , 2004, 10, 137-141.	1.2	14
229	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.	1.1	10
230	Ultrathin Cantilevers Based on Polymer+ Ceramic Nanocomposite Assembled through Layer-by-Layer Adsorption. <i>Nano Letters</i> , 2004, 4, 823-825.	4.5	111
231	Fabrication and electrical characteristics of polymer-based Schottky diode. <i>Solid-State Electronics</i> , 2003, 47, 691-694.	0.8	61
232	All-polymer RC filter circuits fabricated with inkjet printing technology. <i>Solid-State Electronics</i> , 2003, 47, 841-847.	0.8	103
233	All-polymer capacitor fabricated with inkjet printing technique. <i>Solid-State Electronics</i> , 2003, 47, 1543-1548.	0.8	146
234	Fabrication of high-aspect-ratio polymer-based electrostatic comb drives using the hot embossing technique. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 430-435.	1.5	70

#	ARTICLE	IF	CITATIONS
235	Fabrication and characterization of metal-oxide-semiconductor capacitor based on layer-by-layer self-assembled thin films. <i>Nanotechnology</i> , 2003, 14, 453-457.	1.3	32
236	Organic Field-Effect Transistors Containing a SiO ₂ Nanoparticle Thin Film as the Gate Dielectric. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 525-528.	0.9	0
237	Patterning of Layer-by-Layer Self-Assembled Multiple Types of Nanoparticle Thin Films by Lithographic Technique. <i>Nano Letters</i> , 2002, 2, 1219-1222.	4.5	135
238	Lithographic Approach to Pattern Self-Assembled Nanoparticle Multilayers. <i>Langmuir</i> , 2002, 18, 6712-6715.	1.6	76
239	Stress and Deformation of Pzt Thin Film on Silicon Wafer Due to Thermal Expansion. <i>Materials Research Society Symposia Proceedings</i> , 1999, 574, 107.	0.1	6