

Jayne Wu

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.

153
papers

4,672
citations

39
h-index

63
g-index

178
ext. papers

5,473
ext. citations

6.2
avg, IF

6.13
L-index

#	Paper	IF	Citations
153	Capacitive Aptasensor Coupled with Microfluidic Enrichment for Real-Time Detection of Trace SARS-CoV-2 Nucleocapsid Protein.. <i>Analytical Chemistry</i> , 2022 ,	7.8	15
152	Response of CO and CH transport to damming: A case study of Yulin River in the Three Gorges Reservoir, China.. <i>Environmental Research</i> , 2022 , 208, 112733	7.9	0
151	Confined electrochemiluminescence imaging microarray for high-throughput biosensing of single cell-released dopamine.. <i>Biosensors and Bioelectronics</i> , 2022 , 201, 113959	11.8	5
150	Optimization of ACEK-enhanced, PCB-based biosensor for highly sensitive and rapid detection of bisphenol a in low resource settings. <i>Biosensors and Bioelectronics</i> , 2022 , 196, 113745	11.8	1
149	Aspects of topological approaches for data science 2022 ,		0
148	Chemiluminescent screening of specific hybridoma cells via a proximity-rolling circle activated enzymatic switch.. <i>Communications Biology</i> , 2022 , 5, 308	6.7	0
147	Dowker complex based machine learning (DCML) models for protein-ligand binding affinity prediction.. <i>PLoS Computational Biology</i> , 2022 , 18, e1009943	5	3
146	New insight into ammonium oxidation processes and mechanisms mediated by manganese oxide in constructed wetlands.. <i>Water Research</i> , 2022 , 215, 118251	12.5	0
145	. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	2
144	A sensitive electrochemical method for rapid detection of dengue virus by CRISPR/Cas13a-assisted catalytic hairpin assembly. <i>Analytica Chimica Acta</i> , 2021 , 1187, 339131	6.6	3
143	Topological complexity of the work map. <i>Journal of Topology and Analysis</i> , 2021 , 13, 219-238	0.3	2
142	Persistent spectral hypergraph based machine learning (PSH-ML) for protein-ligand binding affinity prediction. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	4
141	Rapid and Sensitive Point of Care Detection of MRSA Genomic DNA by Nanoelectrokinetic Sensors. <i>Chemosensors</i> , 2021 , 9, 97	4	5
140	Real-time, selective, and low-cost detection of trace level SARS-CoV-2 spike-protein for cold-chain food quarantine. <i>Npj Science of Food</i> , 2021 , 5, 12	6.3	9
139	Rapid and Sensitive Detection of miRNA Based on AC Electrokinetic Capacitive Sensing for Point-of-Care Applications. <i>Sensors</i> , 2021 , 21,	3.8	3
138	Monose-modified organic electrochemical transistors for cell surface glycan analysis via competitive recognition to enzyme-labeled lectin. <i>Mikrochimica Acta</i> , 2021 , 188, 252	5.8	1
137	Lack of methane hotspot in the upstream dam: Case study in a tributary of the Three Gorges Reservoir, China. <i>Science of the Total Environment</i> , 2021 , 754, 142151	10.2	8

136	A facile strategy for quantitative sensing of glycans on cell surface using organic electrochemical transistors. <i>Biosensors and Bioelectronics</i> , 2021 , 175, 112878	11.8	10
135	A single-step DNAzyme sensor for ultra-sensitive and rapid detection of Pb ²⁺ ions. <i>Electrochimica Acta</i> , 2021 , 368, 137551	6.7	8
134	Optimisation of waste clean-up after large-scale disasters. <i>Waste Management</i> , 2021 , 119, 1-10	8.6	7
133	A Nanofluidic Sensor for Real-Time Detection of Ultratrace Contaminant Particles in IC Fabrication. <i>IEEE Sensors Journal</i> , 2021 , 21, 755-764	4	3
132	Hypergraph-based persistent cohomology (HPC) for molecular representations in drug design. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	8
131	Real-time Cd ²⁺ detection at sub-femtomolar level in various liquid media by an aptasensor integrated with microfluidic enrichment. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129282	8.5	6
130	A Rolling Circle-Amplified G-Quadruplex/Hemin DNAzyme for Chemiluminescence Immunoassay of the SARS-CoV-2 Protein. <i>Analytical Chemistry</i> , 2021 , 93, 9933-9938	7.8	8
129	A Sensitive and Specific Genomic RNA Sensor for Point-of-Care Screening of Zika Virus from Serum. <i>Analytical Chemistry</i> , 2021 , 93, 11379-11387	7.8	0
128	Simultaneous enhancement of treatment performance and energy recovery using pyrite as anodic filling material in constructed wetland coupled with microbial fuel cells. <i>Water Research</i> , 2021 , 201, 117333	12.5	9
127	Microfluidics-Integrated Sensors toward Rapid Detection of Single Nucleotide Variations. <i>ACS Omega</i> , 2021 , 6, 24297-24303	3.9	2
126	A disposable aptasensor based on a gold-plated coplanar electrode array for on-site and real-time determination of Cu. <i>Analytica Chimica Acta</i> , 2021 , 1183, 338991	6.6	0
125	An on-site, highly specific immunosensor for Escherichia coli detection in field milk samples from mastitis-affected dairy cattle. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112366	11.8	14
124	Intensive and Persistent Chemiluminescence System Based on Nano-/Bioenzymes with Local Tandem Catalysis and Surface Diffusion. <i>Analytical Chemistry</i> , 2020 , 92, 5517-5523	7.8	17
123	Target-Catalyzed Assembly of Pyrene-Labeled Hairpins for Exponentially Amplified Biosensing.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5342-5349	4.1	5
122	An anchored monopodial DNA walker triggered by proximity hybridization for amplified amperometric biosensing of nucleic acid and protein. <i>Analytica Chimica Acta</i> , 2020 , 1107, 48-54	6.6	3
121	A disposable bulk-acoustic-wave microalga trapping device for real-time water monitoring. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127388	8.5	3
120	An interdigitated microelectrode based aptasensor for real-time and ultratrace detection of four organophosphorus pesticides. <i>Biosensors and Bioelectronics</i> , 2020 , 150, 111879	11.8	22
119	Organic electrochemical transistor for sensing of sialic acid in serum samples. <i>Analytica Chimica Acta</i> , 2020 , 1128, 231-237	6.6	8

118	Robust and Rapid Detection of Mixed Volatile Organic Compounds in Flow Through Air by a Low Cost Electronic Nose. <i>Chemosensors</i> , 2020 , 8, 73	4	5
117	Heavy Metal Ion Detection Platforms Based on a Glutathione Probe: A Mini Review. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 489	2.6	20
116	Rapid detection of trace Cu using an l-cysteine based interdigitated electrode sensor integrated with AC electrokinetic enrichment. <i>Electrophoresis</i> , 2019 , 40, 2699-2705	3.6	9
115	Proximity hybridization-induced on particle DNA walker for ultrasensitive protein detection. <i>Analytica Chimica Acta</i> , 2019 , 1074, 142-149	6.6	14
114	Recent development in chitosan nanocomposites for surface-based biosensor applications. <i>Electrophoresis</i> , 2019 , 40, 2084-2097	3.6	37
113	Motion of Enzyme-Powered Microshell Motors. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2491-2496	4.5	11
112	Fe-based ceramic nanocomposite membranes fabricated via e-spinning and vacuum filtration for Cd ions removal. <i>Chemosphere</i> , 2019 , 230, 527-535	8.4	11
111	Thermal degradation behavior of pectin in citrus wastes with density functional theory study. <i>Waste Management</i> , 2019 , 89, 408-417	8.6	6
110	Laser nanojoining of copper nanowires. <i>Journal of Laser Applications</i> , 2019 , 31, 022414	2.1	5
109	Bubble-Propelled Jellyfish-like Micromotors for DNA Sensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13581-13588	9.5	59
108	A highly sensitive aptasensor for on-site detection of lipopolysaccharides in food. <i>Electrophoresis</i> , 2019 , 40, 890-896	3.6	10
107	Thermal decomposition mechanism of O-acetyl-4-O-methylglucurono-xylan. <i>Journal of Molecular Modeling</i> , 2019 , 25, 234	2	4
106	Insight into the roles of packing carriers and ultrasonication in anaerobic side-stream reactor coupled membrane bioreactors: Sludge reduction performance and mechanism. <i>Water Research</i> , 2019 , 155, 310-319	12.5	50
105	Pressure-Driven Micro-Casting for Electrode Fabrication and Its Applications in Wear Grain Detections. <i>Materials</i> , 2019 , 12,	3.5	3
104	Serologic Diagnosis of Taenia Solium Cysticercosis through Linear Unmixing Analysis of Biosignals from ACEK Capacitive Sensing Method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2019 , 2019, 2261-2264	0.9	
103	Low-Cost and Desktop-Fabricated Biosensor for Rapid and Sensitive Detection of Circulating D-Dimer Biomarker. <i>IEEE Sensors Journal</i> , 2019 , 19, 1245-1251	4	8
102	Easy-to-operate fabrication of tapered glass capillaries for microdroplet generation. <i>Journal of Micromechanics and Microengineering</i> , 2019 , 29, 037001	2	3
101	Rapid detection of ultra-trace nanoparticles based on ACEK enrichment for semiconductor manufacturing quality control. <i>Microfluidics and Nanofluidics</i> , 2019 , 23, 1	2.8	11

100	Rapid and sensitive detection of formaldehyde based on AC electrokinetic effects. <i>Micro and Nano Letters</i> , 2018 , 13, 63-68	0.9	1
99	Highly sensitive and specific on-site detection of serum cocaine by a low cost aptasensor. <i>Biosensors and Bioelectronics</i> , 2018 , 108, 103-108	11.8	38
98	Rapid, highly sensitive detection of Gram-negative bacteria with lipopolysaccharide based disposable aptasensor. <i>Biosensors and Bioelectronics</i> , 2018 , 112, 48-53	11.8	39
97	Molecular Machine Powered Surface Programmatic Chain Reaction for Highly Sensitive Electrochemical Detection of Protein. <i>Analytical Chemistry</i> , 2018 , 90, 5503-5508	7.8	63
96	Experimental Observation of Thermally Excited Triplet States of Heavier Group 15 Element Centered Diradical Dianions. <i>Chemistry - A European Journal</i> , 2018 , 24, 3156-3160	4.8	10
95	Nitrogen Analogues of o-Quinodimethane with Unexpected non-Kekul[Diradical Character. <i>Chinese Journal of Chemistry</i> , 2018 , 36, 487-490	4.9	1
94	Lectin-mediated in situ rolling circle amplification on exosomes for probing cancer-related glycan pattern. <i>Analytica Chimica Acta</i> , 2018 , 1039, 108-115	6.6	16
93	Organic Electrochemical Transistors for the Detection of Cell Surface Glycans. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18470-18477	9.5	39
92	Simple, Fast And Highly Sensitive Detection Of Gram-Negative Bacteria By A Novel Electrical Biosensor. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1279-1282	0.9	1
91	Laser-Induced Carbon-Based Smart Flexible Sensor Array for Multiflavors Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34005-34012	9.5	31
90	Resonance energy transfer and electron-hole annihilation induced chemiluminescence of quantum dots for amplified immunoassay. <i>Chemical Communications</i> , 2018 , 54, 11861-11864	5.8	12
89	3D-printed microfluidic manipulation device integrated with magnetic array. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	9
88	Multiplexed chemiluminescence imaging assay of protein biomarkers using DNA microarray with proximity binding-induced hybridization chain reaction amplification. <i>Analytica Chimica Acta</i> , 2018 , 1032, 130-137	6.6	26
87	Unamplified RNA Sensor for On-Site Screening of Zika Virus Disease in a Limited Resource Setting. <i>ChemElectroChem</i> , 2017 , 4, 485-489	4.3	21
86	A resettable in-line particle concentrator using AC electrokinetics for distributed monitoring of microalgae in source waters. <i>Sensors and Actuators B: Chemical</i> , 2017 , 244, 265-274	8.5	10
85	Optimization of an AC electrokinetics immunoassay lab-chip for biomedical diagnostics. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	17
84	Binding-induced DNA walker for signal amplification in highly selective electrochemical detection of protein. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 201-205	11.8	57
83	A PCR-free point-of-care capacitive immunoassay for influenza A virus. <i>Mikrochimica Acta</i> , 2017 , 184, 1649-1657	5.8	23

82	A pH-responsive colorimetric strategy for DNA detection by acetylcholinesterase catalyzed hydrolysis and cascade amplification. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 651-656	11.8	26
81	Capacitive DNA sensor for rapid and sensitive detection of whole genome human herpesvirus-1 dsDNA in serum. <i>Electrophoresis</i> , 2017 , 38, 1617-1623	3.6	17
80	Topological Analysis and Gaussian Decision Tree: Effective Representation and Classification of Biosignals of Small Sample Size. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2288-2299	5	13
79	Rapid and sensitive detection of bisphenol a from serum matrix. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 104-109	11.8	44
78	A low cost and palm-size analyzer for rapid and sensitive protein detection by AC electrokinetics capacitive sensing. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 83-90	11.8	21
77	Motor-based microprobe powered by bio-assembled catalase for motion detection of DNA. <i>Biosensors and Bioelectronics</i> , 2017 , 87, 31-37	11.8	18
76	A highly sensitive and specific capacitive aptasensor for rapid and label-free trace analysis of Bisphenol A (BPA) in canned foods. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 1059-1067	11.8	57
75	AC electrokinetics based capture of yeast cells from ultra-fast through-flow for sensitive detection. <i>Micro and Nano Letters</i> , 2017 , 12, 901-906	0.9	3
74	AC electrokinetic drug delivery in dentistry using an interdigitated electrode assembly powered by inductive coupling. <i>Biomedical Microdevices</i> , 2016 , 18, 84	3.7	9
73	A DNA dual lock-and-key strategy for cell-subtype-specific siRNA delivery. <i>Nature Communications</i> , 2016 , 7, 13580	17.4	117
72	Design and characterization of a passive, disposable wireless AC-electroosmotic lab-on-a-film for particle and fluid manipulation. <i>Sensors and Actuators B: Chemical</i> , 2016 , 235, 330-342	8.5	36
71	Rapid detection of microbial cell abundance in aquatic systems. <i>Biosensors and Bioelectronics</i> , 2016 , 85, 915-923	11.8	10
70	Bisphenol A Sensors on Polyimide Fabricated by Laser Direct Writing for Onsite River Water Monitoring at Attomolar Concentration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17784-92	9.5	76
69	Rapid and sensitive detection of small biomolecule by capacitive sensing and low field AC electrothermal effect. <i>Sensors and Actuators B: Chemical</i> , 2016 , 226, 245-253	8.5	49
68	Label-free signal-on aptasensor for sensitive electrochemical detection of arsenite. <i>Biosensors and Bioelectronics</i> , 2016 , 79, 861-5	11.8	67
67	A plasmonic colorimetric strategy for biosensing through enzyme guided growth of silver nanoparticles on gold nanostars. <i>Biosensors and Bioelectronics</i> , 2016 , 78, 267-273	11.8	70
66	Proximity hybridization-regulated chemiluminescence resonance energy transfer for homogeneous immunoassay. <i>Talanta</i> , 2016 , 154, 455-60	6.2	19
65	Electrochemical Sensor for Lead Cation Sensitized with a DNA Functionalized Porphyrinic Metal-Organic Framework. <i>Analytical Chemistry</i> , 2015 , 87, 10635-41	7.8	160

64	Rapid capacitive detection of femtomolar levels of bisphenol A using an aptamer-modified disposable microelectrode array. <i>Mikrochimica Acta</i> , 2015 , 182, 2361-2367	5.8	28
63	Immunoreaction-triggered DNA assembly for one-step sensitive ratiometric electrochemical biosensing of protein biomarker. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 345-9	11.8	107
62	Electrochemical sensing of heavy metal ions with inorganic, organic and bio-materials. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 276-286	11.8	361
61	Alternating current electrokinetics enhanced in situ capacitive immunoassay. <i>Electrophoresis</i> , 2015 , 36, 471-4	3.6	20
60	Synthesis of Bismuth-Nanoparticle-Enriched Nanoporous Carbon on Graphene for Efficient Electrochemical Analysis of Heavy-Metal Ions. <i>Chemistry - A European Journal</i> , 2015 , 21, 11525-30	4.8	40
59	Target-driven DNA association to initiate cyclic assembly of hairpins for biosensing and logic gate operation. <i>Chemical Science</i> , 2015 , 6, 4318-4323	9.4	73
58	Early mastitis diagnosis through topological analysis of biosignals from low-voltage alternate current electrokinetics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 542-5	0.9	9
57	High-throughput imaging assay of multiple proteins target-induced DNA assembly and cleavage. <i>Chemical Science</i> , 2015 , 6, 2602-2607	9.4	34
56	Ratiometric electrochemical proximity assay for sensitive one-step protein detection. <i>Scientific Reports</i> , 2014 , 4, 4360	4.9	80
55	Sensitive colorimetric biosensing for methylation analysis of p16/CDKN2 promoter with hyperbranched rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2014 , 61, 593-7	11.8	28
54	Multiplexed electrochemical immunoassay using streptavidin/nanogold/carbon nanohorn as a signal tag to induce silver deposition. <i>Analytica Chimica Acta</i> , 2014 , 847, 37-43	6.6	30
53	Controllable aggregation-induced emission based on a tetraphenylethylene-functionalized pillar[5]arene via host-guest recognition. <i>Chemical Communications</i> , 2014 , 50, 9122-5	5.8	95
52	Ultrasensitive enzyme-free electrochemical immunosensor based on hybridization chain reaction triggered double strand DNA@Au nanoparticle tag. <i>Talanta</i> , 2014 , 120, 218-23	6.2	27
51	AC electrokinetics-enhanced capacitive immunosensor for point-of-care serodiagnosis of infectious diseases. <i>Biosensors and Bioelectronics</i> , 2014 , 51, 437-43	11.8	68
50	Electrochemical detection of Cu ²⁺ through Ag nanoparticle assembly regulated by copper-catalyzed oxidation of cysteamine. <i>Biosensors and Bioelectronics</i> , 2014 , 55, 272-7	11.8	74
49	Optimization of planar interdigitated microelectrode array for biofluid transport by AC electrothermal effect. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 167-178	2.8	46
48	An AC electrokinetic impedance immunosensor for rapid detection of tuberculosis. <i>Analyst, The</i> , 2013 , 138, 7188-96	5	45
47	Rapid detection of progesterone by commercially available microelectrode chips 2013 ,		11

46	Phosphine oxide functional group based three-station molecular shuttle. <i>Chemical Science</i> , 2013 , 4, 1701-4	19.4	60
45	Nanogold-Enriched Carbon Nanohorn Label for Sensitive Electrochemical Detection of Biomarker on a Disposable Immunosensor. <i>Electroanalysis</i> , 2013 , 25, 1044-1049	3	27
44	Dielectrophoretic responses of DNA and fluorophore in physiological solution by impedimetric characterization. <i>Biosensors and Bioelectronics</i> , 2013 , 41, 649-55	11.8	36
43	Thermally biased AC electrokinetic pumping effect for lab-on-a-chip based delivery of biofluids. <i>Biomedical Microdevices</i> , 2013 , 15, 125-33	3.7	32
42	Development of an AC electrokinetics-based immunoassay system for on-site serodiagnosis of infectious diseases. <i>Sensors and Actuators A: Physical</i> , 2011 , 171, 406-413	3.9	50
41	2011 ,		3
40	Streptavidin-Functionalized Silver-Nanoparticle-Enriched Carbon Nanotube Tag for Ultrasensitive Multiplexed Detection of Tumor Markers. <i>Advanced Functional Materials</i> , 2011 , 21, 2938-2943	15.6	163
39	Disposable immunosensor array for ultrasensitive detection of tumor markers using glucose oxidase-functionalized silica nanosphere tags. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3782-7	11.8	64
38	Numerical study of in situ preconcentration for rapid and sensitive nanoparticle detection. <i>Biomicrofluidics</i> , 2010 , 4,	3.2	30
37	Investigations of DC Electro-Osmotic (DCEO) micro pumps for an orthopaedic implant applications. <i>International Journal of Biomedical Engineering and Technology</i> , 2010 , 3, 173	1.3	2
36	Obtaining Time Derivative of Low-Frequency Signals With Improved Signal-to-Noise Ratio. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 596-603	5.2	5
35	In Situ Nanoparticle Focusing Within Microfluidics 2010 , 295-316		3
34	Microfluidic flow reversal at low frequency by AC electrothermal effect. <i>Microfluidics and Nanofluidics</i> , 2009 , 7, 757-765	2.8	19
33	Low-voltage dynamic control for DC electroosmotic devices. <i>Sensors and Actuators A: Physical</i> , 2009 , 153, 237-243	3.9	7
32	Ultrafast micropumping by biased alternating current electrokinetics. <i>Applied Physics Letters</i> , 2009 , 94, 064101	3.4	50
31	Interactions of electrical fields with fluids: laboratory-on-a-chip applications. <i>IET Nanobiotechnology</i> , 2008 , 2, 14-27	2	57
30	Electric field-driven strategy for multiplexed detection of protein biomarkers using a disposable reagentless electrochemical immunosensor array. <i>Analytical Chemistry</i> , 2008 , 80, 6072-7	7.8	120
29	Investigation of microflow reversal by ac electrokinetics in orthogonal electrodes for micropump design. <i>Biomicrofluidics</i> , 2008 , 2, 24101	3.2	21

28	Disposable reagentless electrochemical immunosensor array based on a biopolymer/sol-gel membrane for simultaneous measurement of several tumor markers. <i>Clinical Chemistry</i> , 2008 , 54, 1481-8	5.5	71
27	Locating Sudden Changes in Heat Flux Using Higher Temporal Derivatives of Temperature. <i>Journal of Spacecraft and Rockets</i> , 2008 , 45, 631-635	1.5	4
26	ac electro-osmotic micropump by asymmetric electrode polarization. <i>Journal of Applied Physics</i> , 2008 , 103, 024907	2.5	42
25	A new multidimensional integral relationship between heat flux and temperature for direct internal assessment of heat flux. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2008 , 59, 869-888	1.6	10
24	Heating rate dT/dt measurements developed from in-situ thermocouples using a voltage-rate interface. <i>International Communications in Heat and Mass Transfer</i> , 2008 , 35, 885-891	5.8	10
23	Advances of LOC-Based Particle Manipulation by AC Electrical Fields. <i>Recent Patents on Electrical Engineering</i> , 2008 , 1, 178-187		3
22	A Simple Method to Integrate In Situ Nano-Particle Focusing With Cantilever Detection. <i>IEEE Sensors Journal</i> , 2007 , 7, 957-958	4	12
21	Enhancing microcantilever capability with integrated AC electroosmotic trapping. <i>Microfluidics and Nanofluidics</i> , 2007 , 3, 369-375	2.8	34
20	A disposable two-throughput electrochemical immunosensor chip for simultaneous multianalyte determination of tumor markers. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 114-20	11.8	68
19	A disposable multianalyte electrochemical immunosensor array for automated simultaneous determination of tumor markers. <i>Clinical Chemistry</i> , 2007 , 53, 1495-502	5.5	105
18	Micropumping of biofluids by alternating current electrothermal effects. <i>Applied Physics Letters</i> , 2007 , 90, 234103	3.4	103
17	AC electrothermal manipulation of conductive fluids and particles for lab-chip applications. <i>IET Nanobiotechnology</i> , 2007 , 1, 36-43	2	99
16	Electrochemical Immunoassay of Human Chorionic Gonadotrophin Based on Its Immobilization in Gold Nanoparticles-Chitosan Membrane. <i>Electroanalysis</i> , 2006 , 18, 670-676	3	29
15	Microfluidic transport by AC electroosmosis. <i>Journal of Physics: Conference Series</i> , 2006 , 34, 356-361	0.3	16
14	Biased AC electro-osmosis for on-chip bioparticle processing. <i>IEEE Nanotechnology Magazine</i> , 2006 , 5, 84-89	2.6	31
13	Heating-Rate Measurements Developed from In-Situ Thermocouples Using a Voltage-Rate Interface 2006 ,		4
12	Particle Line Assembly/Patterning by Microfluidic AC Electroosmosis. <i>Journal of Physics: Conference Series</i> , 2006 , 34, 589-594	0.3	9
11	Parallel Plate Particle Trapping with Application to Cantilevers. <i>Journal of Physics: Conference Series</i> , 2006 , 34, 709-714	0.3	

10	A disposable electrochemical immunosensor for flow injection immunoassay of carcinoembryonic antigen. <i>Biosensors and Bioelectronics</i> , 2006 , 22, 102-8	11.8	158
9	Long-Range AC Electroosmotic Trapping and Detection of Bioparticles. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 2815-2822	3.9	116
8	Particle detection by electrical impedance spectroscopy with asymmetric-polarization AC electroosmotic trapping. <i>Microfluidics and Nanofluidics</i> , 2005 , 1, 161-167	2.8	96
7	An Inductive Link with Integrated Receiving Coil Coupling Coefficient and Link Efficiency. <i>Journal of Computational Electronics</i> , 2005 , 4, 221-230	1.8	3
6	Inductive pulse transmission by amplitude modulation using thin-film and electroplated microcoils. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2005 , 4, 013011	0.7	0
5	Powering efficiency of inductive links with inlaid electroplated microcoils. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 576-586	2	16
4	Inductive generation of arbitrary waveforms for electrical stimulation using implantable microcoils. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1012-1021	2	4
3	An inlaid electroplated copper coil for on-chip powering of microelectromechanical systems devices. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004 , 22, 611		10
2	DC and RF characteristics of MBE grown GaAs barrier diode. <i>Journal of Crystal Growth</i> , 2001 , 227-228, 223-227	1.6	1
1	Simple wireless powering scheme for MEMS devices 2001 , 4559, 43		5