Jayne Wu

List of Publications by Year
in descending order

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172 papers	6,255 citations	57719 44 h-index	82499 72 g-index
178 all docs	178 docs citations	178 times ranked	6006 citing authors

#	Article	IF	Citations
1	Electrochemical sensing of heavy metal ions with inorganic, organic and bio-materials. Biosensors and Bioelectronics, 2015, 63, 276-286.	5.3	476
2	Electrochemical Sensor for Lead Cation Sensitized with a DNA Functionalized Porphyrinic Metalâ€“Organic Framework. Analytical Chemistry, 2015, 87, 10635-10641.	3.2	200
3	Streptavidinâ€Functionalized Silverâ€Nanoparticleâ€Enriched Carbon Nanotube Tag for Ultrasensitive Multiplexed Detection of Tumor Markers. Advanced Functional Materials, 2011, 21, 2938-2943.	7.8	176
4	A disposable electrochemical immunosensor for flow injection immunoassay of carcinoembryonic antigen. Biosensors and Bioelectronics, 2006, 22, 102-108.	5.3	169
5	A DNA dual lock-and-key strategy for cell-subtype-specific siRNA delivery. Nature Communications, 2016, 7, 13580.	5.8	165
6	Immunoreaction-triggered DNA assembly for one-step sensitive ratiometric electrochemical biosensing of protein biomarker. Biosensors and Bioelectronics, 2015, 66, 345-349.	5.3	129
7	Long-Range AC Electroosmotic Trapping and Detection of Bioparticles. Industrial & Engineering Chemistry Research, 2005, 44, 2815-2822.	1.8	127
8	Electric Field-Driven Strategy for Multiplexed Detection of Protein Biomarkers Using a Disposable Reagentless Electrochemical Immunosensor Array. Analytical Chemistry, 2008, 80, 6072-6077.	3.2	126
9	AC electrothermal manipulation of conductive fluids and particles for lab-chip applications. IET Nanobiotechnology, 2007, 1, 36.	1.9	119
10	Micropumping of biofluids by alternating current electrothermal effects. Applied Physics Letters, 2007, 90, 234103.	1.5	115
11	A Disposable Multianalyte Electrochemical Immunosensor Array for Automated Simultaneous Determination of Tumor Markers. Clinical Chemistry, 2007, 53, 1495-1502.	1.5	111
12	Controllable aggregation-induced emission based on a tetraphenylethylene-functionalized pillar[5]arene via hostâ€“guest recognition. Chemical Communications, 2014, 50, 9122-9125.	2.2	110
13	Particle detection by electrical impedance spectroscopy with asymmetric-polarization AC electroosmotic trapping. Microfluidics and Nanofluidics, 2005, 1, 161-167.	1.0	108
14	Bisphenol A Sensors on Polyimide Fabricated by Laser Direct Writing for Onsite River Water Monitoring at Attomolar Concentration. ACS Applied Materials & Interfaces, 2016, 8, 17784-17792.	4.0	106
15	Ratiometric electrochemical proximity assay for sensitive one-step protein detection. Scientific Reports, 2014, 4, 4360.	1.6	92
16	Label-free signal-on aptasensor for sensitive electrochemical detection of arsenite. Biosensors and Bioelectronics, 2016, 79, 861-865.	5.3	92
17	Bubble-Propelled Jellyfish-like Micromotors for DNA Sensing. ACS Applied Materials & Interfaces, 2019, 11, 13581-13588.	4.0	92
18	AC electrokinetics-enhanced capacitive immunosensor for point-of-care serodiagnosis of infectious diseases. Biosensors and Bioelectronics, 2014, 51, 437-443.	5.3	86

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19	Target-driven DNA association to initiate cyclic assembly of hairpins for biosensing and logic gate operation. Chemical Science, 2015, 6, 4318-4323.	3.7	86
20	A plasmonic colorimetric strategy for biosensing through enzyme guided growth of silver nanoparticles on gold nanostars. Biosensors and Bioelectronics, 2016, 78, 267-273.	5.3	86
21	Molecular Machine Powered Surface Programmatic Chain Reaction for Highly Sensitive Electrochemical Detection of Protein. Analytical Chemistry, 2018, 90, 5503-5508.	3.2	85
22	Electrochemical detection of Cu2+ through Ag nanoparticle assembly regulated by copper-catalyzed oxidation of cysteamine. Biosensors and Bioelectronics, 2014, 55, 272-277.	5.3	83
23	Binding-induced DNA walker for signal amplification in highly selective electrochemical detection of protein. Biosensors and Bioelectronics, 2017, 96, 201-205.	5.3	80
24	Disposable Reagentless Electrochemical Immunosensor Array Based on a Biopolymer/Sol-Gel Membrane for Simultaneous Measurement of Several Tumor Markers. Clinical Chemistry, 2008, 54, 1481-1488.	1.5	79
25	Recent development in chitosan nanocomposites for surfaceâ€based biosensor applications. Electrophoresis, 2019, 40, 2084-2097.	1.3	77
26	A highly sensitive and specific capacitive aptasensor for rapid and label-free trace analysis of Bisphenol A (BPA) in canned foods. Biosensors and Bioelectronics, 2017, 89, 1059-1067.	5.3	76
27	Insight into the roles of packing carriers and ultrasonication in anaerobic side-stream reactor coupled membrane bioreactors: Sludge reduction performance and mechanism. Water Research, 2019, 155, 310-319.	5.3	74
28	Disposable immunosensor array for ultrasensitive detection of tumor markers using glucose oxidase-functionalized silica nanosphere tags. Biosensors and Bioelectronics, 2011, 26, 3782-3787.	5.3	70
29	A disposable two-throughput electrochemical immunosensor chip for simultaneous multianalyte determination of tumor markers. Biosensors and Bioelectronics, 2007, 23, 114-120.	5.3	69
30	Development of an AC electrokinetics-based immunoassay system for on-site serodiagnosis of infectious diseases. Sensors and Actuators A: Physical, 2011, 171, 406-413.	2.0	69
31	Rapid and sensitive detection of small biomolecule by capacitive sensing and low field AC electrothermal effect. Sensors and Actuators B: Chemical, 2016, 226, 245-253.	4.0	68
32	Interactions of electrical fields with fluids:laboratory-on-a-chip applications. IET Nanobiotechnology, 2008, 2, 14.	1.9	66
33	Phosphine oxide functional group based three-station molecular shuttle. Chemical Science, 2013, 4, 1701.	3.7	63
34	Synthesis of Bismuthâ€Nanoparticleâ€Enriched Nanoporous Carbon on Graphene for Efficient Electrochemical Analysis of Heavyâ€Metal Ions. Chemistry - A European Journal, 2015, 21, 11525-11530.	1.7	60
35	Ultrafast micropumping by biased alternating current electrokinetics. Applied Physics Letters, 2009, 94, 064101.	1.5	58
36	Organic Electrochemical Transistors for the Detection of Cell Surface Glycans. ACS Applied Materials & Interfaces, 2018, 10, 18470-18477.	4.0	58

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37	An AC electrokinetic impedance immunosensor for rapid detection of tuberculosis. Analyst, The, 2013, 138, 7188.	1.7	57
38	Rapid and sensitive detection of bisphenol a from serum matrix. Biosensors and Bioelectronics, 2017, 91, 104-109.	5.3	57
39	Optimization of planar interdigitated microelectrode array for biofluid transport by AC electrothermal effect. Microfluidics and Nanofluidics, 2014, 16, 167-178.	1.0	56
40	Highly sensitive and specific on-site detection of serum cocaine by a low cost aptasensor. Biosensors and Bioelectronics, 2018, 108, 103-108.	5.3	55
41	Capacitive Aptasensor Coupled with Microfluidic Enrichment for Real-Time Detection of Trace SARS-CoV-2 Nucleocapsid Protein. Analytical Chemistry, 2022, 94, 2812-2819.	3.2	54
42	Rapid, highly sensitive detection of Gram-negative bacteria with lipopolysaccharide based disposable aptasensor. Biosensors and Bioelectronics, 2018, 112, 48-53.	5.3	53
43	ac electro-osmotic micropump by asymmetric electrode polarization. Journal of Applied Physics, 2008, 103, .	1.1	50
44	Design and characterization of a passive, disposable wireless AC-electroosmotic lab-on-a-film for particle and fluid manipulation. Sensors and Actuators B: Chemical, 2016, 235, 330-342.	4.0	49
45	Biased AC electro-osmosis for on-chip bioparticle processing. IEEE Nanotechnology Magazine, 2006, 5, 84-89.	1.1	45
46	Dielectrophoretic responses of DNA and fluorophore in physiological solution by impedimetric characterization. Biosensors and Bioelectronics, 2013, 41, 649-655.	5.3	44
47	Simultaneous enhancement of treatment performance and energy recovery using pyrite as anodic filling material in constructed wetland coupled with microbial fuel cells. Water Research, 2021, 201, 117333.	5.3	44
48	Laser-Induced Carbon-Based Smart Flexible Sensor Array for Multiflavors Detection. ACS Applied Materials & Interfaces, 2018, 10, 34005-34012.	4.0	43
49	A Rolling Circle-Amplified G-Quadruplex/Hemin DNAzyme for Chemiluminescence Immunoassay of the SARS-CoV-2 Protein. Analytical Chemistry, 2021, 93, 9933-9938.	3.2	43
50	Enhancing microcantilever capability with integrated AC electroosmotic trapping. Microfluidics and Nanofluidics, 2007, 3, 369-375.	1.0	41
51	High-throughput imaging assay of multiple proteins via target-induced DNA assembly and cleavage. Chemical Science, 2015, 6, 2602-2607.	3.7	40
52	New insight into ammonium oxidation processes and mechanisms mediated by manganese oxide in constructed wetlands. Water Research, 2022, 215, 118251.	5.3	39
53	Thermally biased AC electrokinetic pumping effect for Lab-on-a-chip based delivery of biofluids. Biomedical Microdevices, 2013, 15, 125-133.	1.4	38
54	Intensive and Persistent Chemiluminescence System Based on Nano-/Bioenzymes with Local Tandem Catalysis and Surface Diffusion. Analytical Chemistry, 2020, 92, 5517-5523.	3.2	38

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55	A pH-responsive colorimetric strategy for DNA detection by acetylcholinesterase catalyzed hydrolysis and cascade amplification. Biosensors and Bioelectronics, 2017, 94, 651-656.	5.3	37
56	Numerical study of in situ preconcentration for rapid and sensitive nanoparticle detection. Biomicrofluidics, 2010, 4, .	1.2	35
57	An on-site, highly specific immunosensor for Escherichia coli detection in field milk samples from mastitis-affected dairy cattle. Biosensors and Bioelectronics, 2020, 165, 112366.	5.3	35
58	Multiplexed electrochemical immunoassay using streptavidin/nanogold/carbon nanohorn as a signal tag to induce silver deposition. Analytica Chimica Acta, 2014, 847, 37-43.	2.6	34
59	Sensitive colorimetric biosensing for methylation analysis of p16/CDKN2 promoter with hyperbranched rolling circle amplification. Biosensors and Bioelectronics, 2014, 61, 593-597.	5.3	33
60	Nanogoldâ€Enriched Carbon Nanohorn Label for Sensitive Electrochemical Detection of Biomarker on a Disposable Immunosensor. Electroanalysis, 2013, 25, 1044-1049.	1.5	32
61	Rapid capacitive detection of femtomolar levels of bisphenol A using an aptamer-modified disposable microelectrode array. Mikrochimica Acta, 2015, 182, 2361-2367.	2.5	32
62	Multiplexed chemiluminescence imaging assay of protein biomarkers using DNA microarray with proximity binding-induced hybridization chain reaction amplification. Analytica Chimica Acta, 2018, 1032, 130-137.	2.6	32
63	An interdigitated microelectrode based aptasensor for real-time and ultratrace detection of four organophosphorus pesticides. Biosensors and Bioelectronics, 2020, 150, 111879.	5.3	30
64	Electrochemical Immunoassay of Human Chorionic Gonadotrophin Based on Its Immobilization in Gold Nanoparticles-Chitosan Membrane. Electroanalysis, 2006, 18, 670-676.	1.5	29
65	Microfluidic flow reversal at low frequency by AC electrothermal effect. Microfluidics and Nanofluidics, 2009, 7, 757-765.	1.0	29
66	Ultrasensitive enzyme-free electrochemical immunosensor based on hybridization chain reaction triggered double strand DNA@Au nanoparticle tag. Talanta, 2014, 120, 218-223.	2.9	29
67	Unamplified RNA Sensor for Onâ€Site Screening of Zika Virus Disease in a Limited Resource Setting. ChemElectroChem, 2017, 4, 485-489.	1.7	28
68	A low cost and palm-size analyzer for rapid and sensitive protein detection by AC electrokinetics capacitive sensing. Biosensors and Bioelectronics, 2017, 90, 83-90.	5.3	27
69	Motor-based microprobe powered by bio-assembled catalase for motion detection of DNA. Biosensors and Bioelectronics, 2017, 87, 31-37.	5.3	27
70	Alternating current electrokinetics enhanced in situ capacitive immunoassay. Electrophoresis, 2015, 36, 471-474.	1.3	26
71	A PCR-free point-of-care capacitive immunoassay for influenza A virus. Mikrochimica Acta, 2017, 184, 1649-1657.	2.5	26
72	Capacitive DNA sensor for rapid and sensitive detection of whole genome human herpesvirusâ€1 dsDNA in serum. Electrophoresis, 2017, 38, 1617-1623.	1.3	26

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73	Heavy Metal Ion Detection Platforms Based on a Glutathione Probe: A Mini Review. Applied Sciences (Switzerland), 2019, 9, 489.	1.3	26
74	Persistent spectral hypergraph based machine learning (PSH-ML) for protein-ligand binding affinity prediction. Briefings in Bioinformatics, 2021, 22, .	3.2	26
75	Lectin-mediated in situ rolling circle amplification on exosomes for probing cancer-related glycan pattern. Analytica Chimica Acta, 2018, 1039, 108-115.	2.6	25
76	Optimization of an AC electrokinetics immunoassay lab-chip for biomedical diagnostics. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	24
77	Real-time Cd2+ detection at sub-femtomolar level in various liquid media by an aptasensor integrated with microfluidic enrichment. Sensors and Actuators B: Chemical, 2021, 329, 129282.	4.0	24
78	A sensitive electrochemical method for rapid detection of dengue virus by CRISPR/Cas13a-assisted catalytic hairpin assembly. Analytica Chimica Acta, 2021, 1187, 339131.	2.6	24
79	Confined electrochemiluminescence imaging microarray for high-throughput biosensing of single cell-released dopamine. Biosensors and Bioelectronics, 2022, 201, 113959.	5.3	24
80	Microfluidic transport by AC electroosmosis. Journal of Physics: Conference Series, 2006, 34, 356-361.	0.3	23
81	Resonance energy transfer and electronâ€“hole annihilation induced chemiluminescence of quantum dots for amplified immunoassay. Chemical Communications, 2018, 54, 11861-11864.	2.2	23
82	Investigation of microflow reversal by ac electrokinetics in orthogonal electrodes for micropump design. Biomicrofluidics, 2008, 2, 24101.	1.2	22
83	Proximity hybridization-regulated chemiluminescence resonance energy transfer for homogeneous immunoassay. Talanta, 2016, 154, 455-460.	2.9	22
84	Topological Analysis and Gaussian Decision Tree: Effective Representation and Classification of Biosignals of Small Sample Size. IEEE Transactions on Biomedical Engineering, 2017, 64, 2288-2299.	2.5	22
85	Organic electrochemical transistor for sensing of sialic acid in serum samples. Analytica Chimica Acta, 2020, 1128, 231-237.	2.6	22
86	Hypergraph-based persistent cohomology (HPC) for molecular representations in drug design. Briefings in Bioinformatics, 2021, 22, .	3.2	22
87	A facile strategy for quantitative sensing of glycans on cell surface using organic electrochemical transistors. Biosensors and Bioelectronics, 2021, 175, 112878.	5.3	21
88	Proximity hybridization-induced on particle DNA walker for ultrasensitive protein detection. Analytica Chimica Acta, 2019, 1074, 142-149.	2.6	20
89	Real-time, selective, and low-cost detection of trace level SARS-CoV-2 spike-protein for cold-chain food quarantine. Npj Science of Food, 2021, 5, 12.	2.5	20
90	A single-step DNAzyme sensor for ultra-sensitive and rapid detection of Pb2+ ions. Electrochimica Acta, 2021, 368, 137551.	2.6	19

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91	Powering efficiency of inductive links with inlaid electroplated microcoils. Journal of Micromechanics and Microengineering, 2004, 14, 576-586.	1.5	17
92	Lack of methane hotspot in the upstream dam: Case study in a tributary of the Three Gorges Reservoir, China. Science of the Total Environment, 2021, 754, 142151.	3.9	17
93	Particle Line Assembly/Patterning by Microfluidic AC Electroosmosis. Journal of Physics: Conference Series, 2006, 34, 589-594.	0.3	15
94	Rapid detection of progesterone by commercially available microelectrode chips. , 2013, , .		15
95	Motion of Enzymeâ€Powered Microshell Motors. Chemistry - an Asian Journal, 2019, 14, 2491-2496.	1.7	15
96	Robust and Rapid Detection of Mixed Volatile Organic Compounds in Flow Through Air by a Low Cost Electronic Nose. Chemosensors, 2020, 8, 73.	1.8	15
97	A Simple Method to Integrate In Situ Nano-Particle Focusing With Cantilever Detection. IEEE Sensors Journal, 2007, 7, 957-958.	2.4	14
98	Experimental Observation of Thermally Excited Triplet States of Heavier Group 15 Element Centered Diradical Dianions. Chemistry - A European Journal, 2018, 24, 3156-3160.	1.7	14
99	3D-printed microfluidic manipulation device integrated with magnetic array. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	14
100	A highly sensitive aptasensor for onâ€site detection of lipopolysaccharides in food. Electrophoresis, 2019, 40, 890-896.	1.3	14
101	Optimisation of waste clean-up after large-scale disasters. Waste Management, 2021, 119, 1-10.	3.7	14
102	Optimization of ACEK-enhanced, PCB-based biosensor for highly sensitive and rapid detection of bisphenol a in low resource settings. Biosensors and Bioelectronics, 2022, 196, 113745.	5.3	14
103	Dowker complex based machine learning (DCML) models for protein-ligand binding affinity prediction. PLoS Computational Biology, 2022, 18, e1009943.	1.5	14
104	AC electrokinetic drug delivery in dentistry using an interdigitated electrode assembly powered by inductive coupling. Biomedical Microdevices, 2016, 18, 84.	1.4	13
105	Rapid detection of microbial cell abundance in aquatic systems. Biosensors and Bioelectronics, 2016, 85, 915-923.	5.3	13
106	A resettable in-line particle concentrator using AC electrokinetics for distributed monitoring of microalgae in source waters. Sensors and Actuators B: Chemical, 2017, 244, 265-274.	4.0	13
107	Low-Cost and Desktop-Fabricated Biosensor for Rapid and Sensitive Detection of Circulating D-Dimer Biomarker. IEEE Sensors Journal, 2019, 19, 1245-1251.	2.4	13
108	Rapid detection of ultra-trace nanoparticles based on ACEK enrichment for semiconductor manufacturing quality control. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	13

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109	SocialCattle: IoT-Based Mastitis Detection and Control Through Social Cattle Behavior Sensing in Smart Farms. IEEE Internet of Things Journal, 2022, 9, 10130-10138.	5.5	13
110	Early mastitis diagnosis through topological analysis of biosignals from low-voltage alternate current electrokinetics. , 2015, 2015, 542-5.		12
111	Fe-based ceramic nanocomposite membranes fabricated via e-spinning and vacuum filtration for Cd2+ ions removal. Chemosphere, 2019, 230, 527-535.	4.2	12
112	‹title›Simple wireless powering scheme for MEMS devices‹/title›. , 2001, 4559, 43.		11
113	An inlaid electroplated copper coil for on-chip powering of microelectromechanical systems devices. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, 611.	1.6	11
114	A new multidimensional integral relationship between heat flux and temperature for direct internal assessment of heat flux. Zeitschrift Fur Angewandte Mathematik Und Physik, 2008, 59, 869-888.	0.7	11
115	Heating rate dT/dt measurements developed from in-situ thermocouples using a voltage-rate interface. International Communications in Heat and Mass Transfer, 2008, 35, 885-891.	2.9	11
116	Rapid detection of trace Cu 2+ using an l â€cysteine based interdigitated electrode sensor integrated with AC electrokinetic enrichment. Electrophoresis, 2019, 40, 2699-2705.	1.3	11
117	Low-voltage dynamic control for DC electroosmotic devices. Sensors and Actuators A: Physical, 2009, 153, 237-243.	2.0	10
118	Target-Catalyzed Assembly of Pyrene-Labeled Hairpins for Exponentially Amplified Biosensing. ACS Applied Bio Materials, 2020, 3, 5342-5349.	2.3	10
119	Aspects of topological approaches for data science. , 2022, 4, 165.		10
120	A disposable bulk-acoustic-wave microalga trapping device for real-time water monitoring. Sensors and Actuators B: Chemical, 2020, 304, 127388.	4.0	9
121	An anchored monopodial DNA walker triggered by proximity hybridization for amplified amperometric biosensing of nucleic acid and protein. Analytica Chimica Acta, 2020, 1107, 48-54.	2.6	8
122	Enhancing affinityâ€based electroanalytical biosensors by integrated AC electrokinetic enrichmentâ€”A mini review. Electrophoresis, 2022, 43, 201-211.	1.3	8
123	Response of CO2 and CH4 transport to damming: A case study of Yulin River in the Three Gorges Reservoir, China. Environmental Research, 2022, 208, 112733.	3.7	8
124	Obtaining Time Derivative of Low-Frequency Signals With Improved Signal-to-Noise Ratio. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 596-603.	2.4	7
125	Efficient integrated DC-DC power converters - Advanced technologies and new challenges. , 2011, , .		7
126	Rapid and Sensitive Point of Care Detection of MRSA Genomic DNA by Nanoelectrokinetic Sensors. Chemosensors, 2021, 9, 97.	1.8	7

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127	Thermal degradation behavior of pectin in citrus wastes with density functional theory study. Waste Management, 2019, 89, 408-417.	3.7	6
128	Laser nanojoining of copper nanowires. Journal of Laser Applications, 2019, 31, 022414.	0.8	6
129	Easy-to-operate fabrication of tapered glass capillaries for microdroplet generation. Journal of Micromechanics and Microengineering, 2019, 29, 037001.	1.5	6
130	Rapid and Sensitive Detection of miRNA Based on AC Electrokinetic Capacitive Sensing for Point-of-Care Applications. Sensors, 2021, 21, 3985.	2.1	6
131	Microfluidics-Integrated Sensors toward Rapid Detection of Single Nucleotide Variations. ACS Omega, 2021, 6, 24297-24303.	1.6	6
132	Topological complexity of the work map. Journal of Topology and Analysis, 2021, 13, 219-238.	0.2	6
133	A rapid, sensitive, and simple-to-use biosensor for on-site detection of attomolar level microRNA biomarkers from serum extracellular vesicles. Sensors and Actuators B: Chemical, 2022, 369, 132314.	4.0	6
134	Heating-Rate Measurements Developed from In-Situ Thermocouples Using a Voltage-Rate Interface. , 2006, , .		5
135	Inductive generation of arbitrary waveforms for electrical stimulation using implantable microcoils. Journal of Micromechanics and Microengineering, 2004, 14, 1012-1021.	1.5	4
136	An Inductive Link with Integrated Receiving Coilâ€"Coupling Coefficient and Link Efficiency. Journal of Computational Electronics, 2005, 4, 221-230.	1.3	4
137	Locating Sudden Changes in Heat Flux Using Higher Temporal Derivatives of Temperature. Journal of Spacecraft and Rockets, 2008, 45, 631-635.	1.3	4
138	AC electrokinetics based capture of yeast cells from ultraâ€fast throughâ€flow for sensitive detection. Micro and Nano Letters, 2017, 12, 901-906.	0.6	4
139	Thermal decomposition mechanism of O-acetyl-4-O-methylglucurono-xylan. Journal of Molecular Modeling, 2019, 25, 234.	0.8	4
140	Pressure-Driven Micro-Casting for Electrode Fabrication and Its Applications in Wear Grain Detections. Materials, 2019, 12, 3710.	1.3	4
141	A Nanofluidic Sensor for Real-Time Detection of Ultratrace Contaminant Particles in IC Fabrication. IEEE Sensors Journal, 2021, 21, 755-764.	2.4	4
142	Monose-modified organic electrochemical transistors for cell surface glycan analysis via competitive recognition to enzyme-labeled lectin. Mikrochimica Acta, 2021, 188, 252.	2.5	4
143	A disposable aptasensor based on a gold-plated coplanar electrode array for on-site and real-time determination of Cu2+. Analytica Chimica Acta, 2021, 1183, 338991.	2.6	4
144	Refillable Fuel-Loading Microshell Motors for Persistent Motion in a Fuel-Free Environment. ACS Applied Materials & Interfaces, 2022, 14, 27074-27082.	4.0	4

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145	Nitrogen Analogues of oâ€Quinodimethane with Unexpected nonâ€KekulÃ© Diradical Character. Chinese Journal of Chemistry, 2018, 36, 487-490.	2.6	3
146	Advances of LOC-Based Particle Manipulation by AC Electrical Fields. Recent Patents on Electrical Engineering, 2008, 1, 178-187.	0.4	3
147	High Sensitivity Particle Detection by Biased AC Electroosmotic Trapping on Cantilever. , 0, , .		2
148	Investigations of DC Electro-Osmotic (DCEO) micro pumps for an orthopaedic implant applications. International Journal of Biomedical Engineering and Technology, 2010, 3, 173.	0.2	2
149	Simple, Fast And Highly Sensitive Detection Of Gram-Negative Bacteria By A Novel Electrical Biosensor. , 2018, 2018, 1279-1282.		2
150	A Sensitive and Specific Genomic RNA Sensor for Point-of-Care Screening of Zika Virus from Serum. Analytical Chemistry, 2021, 93, 11379-11387.	3.2	2
151	Chemiluminescent screening of specific hybridoma cells via a proximity-rolling circle activated enzymatic switch. Communications Biology, 2022, 5, 308.	2.0	2
152	DC and RF characteristics of MBE grown GaAs barrier diode. Journal of Crystal Growth, 2001, 227-228, 223-227.	0.7	1
153	Inductive pulse transmission by amplitude modulation using thin-film and electroplated microcoils. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2005, 4, 013011.	1.0	1
154	Micro/nano- particulate fluid manipulation in AC electro-kinetic lab-on-a-chip. , 2006, , .		1
155	Biased AC electroosmosis micropump for water management in PEM fuel cells. , 2008, , .		1
156	Chip-scale DC/DC power converter. , 2010, , .		1
157	Rapid and sensitive detection of formaldehyde based on AC electrokinetic effects. Micro and Nano Letters, 2018, 13, 63-68.	0.6	1
158	Microneedles â€“ Applications & Devices. , 2008, , 1294-1299.		1
159	Parallel Plate Particle Trapping with Application to Cantilevers. Journal of Physics: Conference Series, 2006, 34, 709-714.	0.3	0
160	Feedback control circuit for biased AC electroosmosis micropump. , 2008, , .		0
161	Ultra Fast Micropumping by Reaction Enhanced AC Electrothermal Effect. , 2009, , .		0
162	In Situ Electrokinetic Preconcentrator for Conductive Biofluids. , 2009, , .		0

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163	On Chip Micropumping for Biofluids by Temperature Biased AC Electrothermal Effect. , 2010, , .		0
164	Electro-Thermal Scaling Constraints in Chip-Scale Power Inductors. ECS Transactions, 2013, 50, 367-375.	0.3	0
165	Research of the interaction between kangai injection and human serum albumin by fluorescence spectroscopy. Proceedings of SPIE, 2015, , .	0.8	0
166	The numerical simulation and goniometric measurements of cells light scattering based on Mie theory. Proceedings of SPIE, 2015, , .	0.8	0
167	Sensitive and specific point-of-care detection of pathogen infections by an AC electrokinetics-enhanced capacitive immunosensor. , 2017, , .		0
168	Serologic Diagnosis of Taenia Solium Cysticercosis through Linear Unmixing Analysis of Biosignals from ACEK Capacitive Sensing Method. , 2019, 2019, 2261-2264.		0
169	Microneedles: Applications and Devices. , 2015, , 2125-2132.		0
170	On homotopy braids. Forum Mathematicum, 2022, .	0.3	0
171	A Rapid and Ultra-sensitive Sensing Strategy based on Tunable Dielectrophoresis for Robust POC Detection. , 2022, , .		0
172	Numerical investigation of microchannel geometry for effective onâ€chip biofluid delivery by AC electrothermal effect. Electrophoresis, 2022, , .	1.3	0