N-T Nguyen

List of Publications by Year in descending order

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N-T NCUVEN

#	Article	IF	CITATIONS
1	Micromixers—a review. Journal of Micromechanics and Microengineering, 2005, 15, R1-R16.	2.6	1,458
2	Fundamentals and applications of inertial microfluidics: a review. Lab on A Chip, 2016, 16, 10-34.	6.0	737
3	Advances in piezoelectric thin films for acoustic biosensors, acoustofluidics and lab-on-chip applications. Progress in Materials Science, 2017, 89, 31-91.	32.8	467
4	MEMS-Micropumps: A Review. Journal of Fluids Engineering, Transactions of the ASME, 2002, 124, 384-392.	1.5	465
5	Nanofluidic Devices and Their Applications. Analytical Chemistry, 2008, 80, 2326-2341.	6.5	345
6	Micromachined flow sensors—a review. Flow Measurement and Instrumentation, 1997, 8, 7-16.	2.0	342
7	Oxygen plasma treatment for reducing hydrophobicity of a sealed polydimethylsiloxane microchannel. Biomicrofluidics, 2010, 4, 32204.	2.4	337
8	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. Small, 2018, 14, 1702153.	10.0	335
9	Porous scaffolds for bone regeneration. Journal of Science: Advanced Materials and Devices, 2020, 5, 1-9.	3.1	328
10	Micro-magnetofluidics: interactions between magnetism and fluid flow on the microscale. Microfluidics and Nanofluidics, 2012, 12, 1-16.	2.2	324
11	Lab on a chip for continuous-flow magnetic cell separation. Lab on A Chip, 2015, 15, 959-970.	6.0	299
12	Rare cell isolation and analysis in microfluidics. Lab on A Chip, 2014, 14, 626.	6.0	273
13	Magnetic digital microfluidics – a review. Lab on A Chip, 2017, 17, 994-1008.	6.0	256
14	Active droplet sorting in microfluidics: a review. Lab on A Chip, 2017, 17, 751-771.	6.0	250
15	A membraneless hydrogen peroxide fuel cell using Prussian Blue as cathode material. Energy and Environmental Science, 2012, 5, 8225.	30.8	242
16	Circulating tumor DNA and liquid biopsy: opportunities, challenges, and recent advances in detection technologies. Lab on A Chip, 2018, 18, 1174-1196.	6.0	234
17	Avoiding Pre-Isolation Step in Exosome Analysis: Direct Isolation and Sensitive Detection of Exosomes Using Gold-Loaded Nanoporous Ferric Oxide Nanozymes. Analytical Chemistry, 2019, 91, 3827-3834.	6.5	209
18	SUâ€8 as a structural material for labsâ€onâ€chips and microelectromechanical systems. Electrophoresis, 2007, 28, 4539-4551.	2.4	206

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19	A review on membraneless laminar flow-based fuel cells. International Journal of Hydrogen Energy, 2011, 36, 5675-5694.	7.1	205
20	The Piezoresistive Effect of SiC for MEMS Sensors at High Temperatures: A Review. Journal of Microelectromechanical Systems, 2015, 24, 1663-1677.	2.5	203
21	A polymeric microgripper with integrated thermal actuators. Journal of Micromechanics and Microengineering, 2004, 14, 969-974.	2.6	201
22	Active droplet generation in microfluidics. Lab on A Chip, 2016, 16, 35-58.	6.0	199
23	A micro optofluidic splitter and switch based on hydrodynamic spreading. Journal of Micromechanics and Microengineering, 2007, 17, 2169-2174.	2.6	188
24	Micro-optofluidic Lenses: A review. Biomicrofluidics, 2010, 4, .	2.4	179
25	Spheroids-on-a-chip: Recent advances and design considerations in microfluidic platforms for spheroid formation and culture. Sensors and Actuators B: Chemical, 2018, 263, 151-176.	7.8	175
26	Design, fabrication and characterization of drug delivery systems based on lab-on-a-chip technology. Advanced Drug Delivery Reviews, 2013, 65, 1403-1419.	13.7	173
27	Microfluidic gut-on-a-chip with three-dimensional villi structure. Biomedical Microdevices, 2017, 19, 37.	2.8	161
28	Engineering microfluidic concentration gradient generators for biological applications. Microfluidics and Nanofluidics, 2014, 16, 1-18.	2.2	152
29	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. Scientific Reports, 2014, 4, 4527.	3.3	152
30	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. Journal Physics D: Applied Physics, 2008, 41, 085502.	2.8	143
31	Low-pressure, high-temperature thermal bonding of polymeric microfluidic devices and their applications for electrophoretic separation. Journal of Micromechanics and Microengineering, 2006, 16, 1681-1688.	2.6	137
32	High-throughput micromixers based on acoustic streaming induced by surface acoustic wave. Microfluidics and Nanofluidics, 2011, 10, 619-625.	2.2	132
33	Recent Advances and Future Perspectives on Microfluidic Liquid Handling. Micromachines, 2017, 8, 186.	2.9	131
34	Micromachined polymer electrolyte membrane and direct methanol fuel cells—a review. Journal of Micromechanics and Microengineering, 2006, 16, R1-R12.	2.6	130
35	Flexible Microfluidics: Fundamentals, Recent Developments, and Applications. Micromachines, 2019, 10, 830.	2.9	130
36	Quantum dot-based sensitive detection of disease specific exosome in serum. Analyst, The, 2017, 142, 2211-2219.	3.5	129

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37	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. Biosensors and Bioelectronics, 2020, 166, 112460.	10.1	129
38	Gold-Loaded Nanoporous Ferric Oxide Nanocubes with Peroxidase-Mimicking Activity for Electrocatalytic and Colorimetric Detection of Autoantibody. Analytical Chemistry, 2017, 89, 11005-11013.	6.5	128
39	A fully polymeric micropump with piezoelectric actuator. Sensors and Actuators B: Chemical, 2004, 97, 137-143.	7.8	126
40	Miniature valveless pumps based on printed circuit board technique. Sensors and Actuators A: Physical, 2001, 88, 104-111.	4.1	120
41	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. Journal of Materials Chemistry C, 2016, 4, 10061-10068.	5.5	119
42	Advanced liquid biopsy technologies for circulating biomarker detection. Journal of Materials Chemistry B, 2019, 7, 6670-6704.	5.8	118
43	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. Carbon, 2020, 163, 385-394.	10.3	118
44	Magnetowetting and Sliding Motion of a Sessile Ferrofluid Droplet in the Presence of a Permanent Magnet. Langmuir, 2010, 26, 12553-12559.	3.5	116
45	Nanoarchitecture Frameworks for Electrochemical miRNA Detection. Trends in Biochemical Sciences, 2019, 44, 433-452.	7.5	115
46	Particle inertial focusing and its mechanism in a serpentine microchannel. Microfluidics and Nanofluidics, 2014, 17, 305-316.	2.2	114
47	Formation and manipulation of ferrofluid droplets at a microfluidic <i>T</i> -junction. Journal of Micromechanics and Microengineering, 2010, 20, 045004.	2.6	113
48	Generation of three-dimensional multiple spheroid model of olfactory ensheathing cells using floating liquid marbles. Scientific Reports, 2015, 5, 15083.	3.3	113
49	Fabrication of planar nanofluidic channels in a thermoplastic by hot-embossing and thermal bonding. Lab on A Chip, 2007, 7, 520.	6.0	112
50	Nonlinear Deformation of a Ferrofluid Droplet in a Uniform Magnetic Field. Langmuir, 2011, 27, 14834-14841.	3.5	111
51	Micromagnetic resonance relaxometry for rapid label-free malaria diagnosis. Nature Medicine, 2014, 20, 1069-1073.	30.7	111
52	Nonlinear diffusive mixing in microchannels: theory and experiments. Journal of Micromechanics and Microengineering, 2004, 14, 604-611.	2.6	109
53	Three-dimensional printing of biological matters. Journal of Science: Advanced Materials and Devices, 2016, 1, 1-17.	3.1	108
54	Thermoresistive Effect for Advanced Thermal Sensors: Fundamentals, Design Considerations, and Applications. Journal of Microelectromechanical Systems, 2017, 26, 966-986.	2.5	108

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55	Porous nanozymes: the peroxidase-mimetic activity of mesoporous iron oxide for the colorimetric and electrochemical detection of global DNA methylation. Journal of Materials Chemistry B, 2018, 6, 4783-4791.	5.8	107
56	An amplification-free electrochemical detection of exosomal miRNA-21 in serum samples. Analyst, The, 2018, 143, 1662-1669.	3.5	106
57	Recent advances and current challenges in magnetophoresis based micro magnetofluidics. Biomicrofluidics, 2018, 12, 031501.	2.4	105
58	Surface Modification Techniques for Endothelial Cell Seeding in PDMS Microfluidic Devices. Biosensors, 2020, 10, 182.	4.7	102
59	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. ACS Nano, 2019, 13, 11572-11581.	14.6	101
60	Manipulation of liquid marbles. Microfluidics and Nanofluidics, 2015, 19, 483-495.	2.2	100
61	Manipulation of ferrofluid droplets using planar coils. Applied Physics Letters, 2006, 89, 052509.	3.3	99
62	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. Sensors and Actuators B: Chemical, 2018, 267, 14-25.	7.8	99
63	Thermally mediated droplet formation in microchannels. Applied Physics Letters, 2007, 91, .	3.3	98
64	A circular ferrofluid driven microchip for rapid polymerase chain reaction. Lab on A Chip, 2007, 7, 1012.	6.0	98
65	Graphite on paper as material for sensitive thermoresistive sensors. Journal of Materials Chemistry C, 2015, 3, 8776-8779.	5.5	98
66	Digital polymerase chain reaction technology – recent advances and future perspectives. Lab on A Chip, 2018, 18, 3717-3732.	6.0	98
67	Hydrodynamic focusing in microchannels under consideration of diffusive dispersion: theories and experiments. Sensors and Actuators B: Chemical, 2005, 107, 965-974.	7.8	95
68	Optical detection for droplet size control in microfluidic droplet-based analysis systems. Sensors and Actuators B: Chemical, 2006, 117, 431-436.	7.8	92
69	Rapid magnetofluidic mixing in a uniform magnetic field. Lab on A Chip, 2012, 12, 4772.	6.0	92
70	Microfluidic Technology for the Generation of Cell Spheroids and Their Applications. Micromachines, 2017, 8, 94.	2.9	92
71	An investigation on the mechanism of droplet formation in a microfluidic T-junction. Microfluidics and Nanofluidics, 2011, 11, 1-10.	2.2	90
72	Mesoporous Iron Oxide Synthesized Using Poly(styrene- <i>b</i> acrylic acid- <i>b</i> ethylene glycol) Block Copolymer Micelles as Templates for Colorimetric and Electrochemical Detection of Glucose. ACS Applied Materials & amp; Interfaces, 2018, 10, 1039-1049.	8.0	90

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73	Micro check valves for integration into polymeric microfluidic devices. Journal of Micromechanics and Microengineering, 2004, 14, 69-75.	2.6	89
74	Slug flow heat transfer without phase change in microchannels: A review. Chemical Engineering Science, 2015, 126, 283-295.	3.8	89
75	Thermally mediated breakup of drops in microchannels. Applied Physics Letters, 2006, 89, 234101.	3.3	88
76	High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. RSC Advances, 2014, 4, 33149.	3.6	88
77	A lab-on-a-chip for detection of nerve agent sarin in blood. Lab on A Chip, 2008, 8, 885.	6.0	87
78	Numerical and experimental investigations of the formation process of ferrofluid droplets. Microfluidics and Nanofluidics, 2011, 11, 177-187.	2.2	86
79	A reliable method for bonding polydimethylsiloxane (PDMS) to polymethylmethacrylate (PMMA) and its application in micropumps. Sensors and Actuators B: Chemical, 2010, 151, 133-139.	7.8	85
80	Design and optimization of an ultrasonic flexural plate wave micropump using numerical simulation. Sensors and Actuators A: Physical, 1999, 77, 229-236.	4.1	84
81	Sample concentration in a microfluidic paper-based analytical device using ion concentration polarization. Sensors and Actuators B: Chemical, 2016, 222, 735-740.	7.8	84
82	Cell stretching devices as research tools: engineering and biological considerations. Lab on A Chip, 2016, 16, 3193-3203.	6.0	79
83	Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA. Chemical Communications, 2017, 53, 8231-8234.	4.1	79
84	Core-shell microparticles: Generation approaches and applications. Journal of Science: Advanced Materials and Devices, 2020, 5, 417-435.	3.1	79
85	RNA Biomarkers: Diagnostic and Prognostic Potentials and Recent Developments of Electrochemical Biosensors. Small Methods, 2017, 1, 1700131.	8.6	79
86	Convective–diffusive transport in parallel lamination micromixers. Microfluidics and Nanofluidics, 2005, 1, 208-217.	2.2	78
87	Digital microfluidics with a magnetically actuated floating liquid marble. Lab on A Chip, 2016, 16, 2211-2218.	6.0	78
88	Acoustically induced bubbles in a microfluidic channel for mixing enhancement. Microfluidics and Nanofluidics, 2009, 6, 847-852.	2.2	77
89	Microfluidic platform for controlling the differentiation of embryoid bodies. Lab on A Chip, 2009, 9, 2591.	6.0	77
90	Development of a polymeric micro fuel cell containing laser-micromachined flow channels. Journal of Micromechanics and Microengineering, 2005, 15, 231-236.	2.6	76

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91	Gold-loaded nanoporous ferric oxide nanocubes for electrocatalytic detection of microRNA at attomolar level. Biosensors and Bioelectronics, 2018, 101, 275-281.	10.1	76
92	Integrated flow sensor for in situ measurement and control of acoustic streaming in flexural plate wave micropumps. Sensors and Actuators A: Physical, 2000, 79, 115-121.	4.1	75
93	Modelling and optimization of micro optofluidic lenses. Lab on A Chip, 2009, 9, 1178.	6.0	75
94	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. Lab on A Chip, 2016, 16, 3947-3956.	6.0	73
95	Air-breathing membraneless laminar flow-based fuel cell with flow-through anode. International Journal of Hydrogen Energy, 2012, 37, 3466-3476.	7.1	72
96	Nanoarchitectured peroxidase-mimetic nanozymes: mesoporous nanocrystalline α- or γ-iron oxide?. Journal of Materials Chemistry B, 2019, 7, 5412-5422.	5.8	72
97	Thermally mediated control of liquid microdroplets at a bifurcation. Journal Physics D: Applied Physics, 2009, 42, 065503.	2.8	71
98	An Electrochemical Method for the Detection of Disease pecific Exosomes. ChemElectroChem, 2017, 4, 967-971.	3.4	71
99	Fundamental piezoresistive coefficients of p-type single crystalline 3C-SiC. Applied Physics Letters, 2014, 104, .	3.3	70
100	Thermally controlled droplet formation in flow focusing geometry: formation regimes and effect of nanoparticle suspension. Journal Physics D: Applied Physics, 2008, 41, 165501.	2.8	69
101	Capillary Filling in Closed End Nanochannels. Langmuir, 2010, 26, 13251-13255.	3.5	69
102	Ferrofluids for heat transfer enhancement under an external magnetic field. International Journal of Heat and Mass Transfer, 2018, 123, 110-121.	4.8	69
103	Surface Acoustic Wave Driven Microfluidics – A Review. Micro and Nanosystems, 2010, 2, 217-225.	0.6	69
104	Thermal Flow Sensors for Harsh Environments. Sensors, 2017, 17, 2061.	3.8	68
105	Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg2+ detection. Journal of Colloid and Interface Science, 2015, 437, 28-34.	9.4	67
106	A polymeric piezoelectric micropump based on lamination technology. Journal of Micromechanics and Microengineering, 2004, 14, 632-638.	2.6	66
107	A floating self-propelling liquid marble containing aqueous ethanol solutions. RSC Advances, 2015, 5, 101006-101012.	3.6	65
108	Asymmetrical locations of heaters and sensors relative to each other using heater arrays: a novel method for designing multi-range electrocaloric mass-flow sensors. Sensors and Actuators A: Physical, 1997, 62, 506-512.	4.1	64

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109	A laser-micromachined polymeric membraneless fuel cell. Journal of Micromechanics and Microengineering, 2007, 17, 1107-1113.	2.6	64
110	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. Microfluidics and Nanofluidics, 2009, 6, 253-259.	2.2	64
111	Advances in Microfluidicsâ€Based Assisted Reproductive Technology: From Sperm Sorter to Reproductive Systemâ€onâ€aâ€Chip. Advanced Biology, 2018, 2, 1700197.	3.0	64
112	Numerical study of the formation process of ferrofluid droplets. Physics of Fluids, 2011, 23, .	4.0	63
113	Enhancing malaria diagnosis through microfluidic cell enrichment and magnetic resonance relaxometry detection. Scientific Reports, 2015, 5, 11425.	3.3	63
114	Challenges and perspectives in the development of paper-based lateral flow assays. Microfluidics and Nanofluidics, 2020, 24, 1.	2.2	63
115	Thermocapillary actuation of droplet in a planar microchannel. Microfluidics and Nanofluidics, 2008, 5, 205-214.	2.2	62
116	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). RSC Advances, 2014, 4, 62076-62085.	3.6	62
117	Detection of the SARS-CoV-2 humanized antibody with paper-based ELISA. Analyst, The, 2020, 145, 7680-7686.	3.5	62
118	Hydrogels as artificial matrices for cell seeding in microfluidic devices. RSC Advances, 2020, 10, 43682-43703.	3.6	62
119	Mixing in microchannels based on hydrodynamic focusing and time-interleaved segmentation: modelling and experiment. Lab on A Chip, 2005, 5, 1320.	6.0	61
120	An air-breathing microfluidic formic acid fuel cell with a porous planar anode: experimental and numerical investigations. Journal of Micromechanics and Microengineering, 2010, 20, 105008.	2.6	61
121	Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. Materials Horizons, 2021, 8, 2123-2150.	12.2	61
122	Deformation of Ferrofluid Marbles in the Presence of a Permanent Magnet. Langmuir, 2013, 29, 13982-13989.	3.5	60
123	Electrochemical biosensing strategies for DNA methylation analysis. Biosensors and Bioelectronics, 2017, 94, 63-73.	10.1	60
124	Highly sensitive 4H-SiC pressure sensor at cryogenic and elevatedÂtemperatures. Materials and Design, 2018, 156, 441-445.	7.0	60
125	Liquid Marbles as Miniature Reactors for Chemical and Biological Applications. Processes, 2020, 8, 793.	2.8	60
126	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. Microfluidics and Nanofluidics, 2006, 3, 101-108.	2.2	59

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127	Kinematics and deformation of ferrofluid droplets under magnetic actuation. Microfluidics and Nanofluidics, 2007, 3, 571-579.	2.2	59
128	Circulating tumor microemboli: Progress in molecular understanding and enrichment technologies. Biotechnology Advances, 2018, 36, 1367-1389.	11.7	59
129	Laser induced graphene for biosensors. Sustainable Materials and Technologies, 2020, 25, e00205.	3.3	59
130	Thickness dependence of the piezoresistive effect in p-type single crystalline 3C-SiC nanothin films. Journal of Materials Chemistry C, 2014, 2, 7176-7179.	5.5	58
131	Modeling and optimization of planar microcoils. Journal of Micromechanics and Microengineering, 2008, 18, 095018.	2.6	56
132	Detection of regional DNA methylation using DNA-graphene affinity interactions. Biosensors and Bioelectronics, 2017, 87, 615-621.	10.1	56
133	Hybrid-assembled micro dosing system using silicon-based micropump/ valve and mass flow sensor. Sensors and Actuators A: Physical, 1998, 69, 85-91.	4.1	55
134	Thermal mixing of two miscible fluids in a T-shaped microchannel. Biomicrofluidics, 2010, 4, 44102.	2.4	55
135	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating. Scientific Reports, 2016, 6, 28499.	3.3	55
136	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. Journal Physics D: Applied Physics, 2017, 50, 215401.	2.8	54
137	Acoustic streaming in micromachined flexural plate wave devices: numerical simulation and experimental verification. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 1463-1471.	3.0	53
138	Air-breathing microfluidic fuel cell with fuel reservoir. Journal of Power Sources, 2012, 209, 312-317.	7.8	53
139	Autoantibodies as diagnostic and prognostic cancer biomarker: Detection techniques and approaches. Biosensors and Bioelectronics, 2019, 139, 111315.	10.1	53
140	Prediction of Necrotic Core and Hypoxic Zone of Multicellular Spheroids in a Microbioreactor with a U-Shaped Barrier. Micromachines, 2018, 9, 94.	2.9	52
141	Piezoresistive Effect of p-Type Single Crystalline 3C-SiC Thin Film. IEEE Electron Device Letters, 2014, 35, 399-401.	3.9	51
142	Microfluidic-Based Nucleic Acid Amplification Systems in Microbiology. Micromachines, 2019, 10, 408.	2.9	51
143	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. Analytical Chemistry, 2019, 91, 4077-4084.	6.5	51
144	Experimental and computational analysis of droplet formation in a high-performance flow-focusing geometry. Sensors and Actuators A: Physical, 2007, 138, 203-212.	4.1	50

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145	A polymeric cell stretching device for real-time imaging with optical microscopy. Biomedical Microdevices, 2013, 15, 1043-1054.	2.8	50
146	Magnetofluidic concentration and separation of non-magnetic particles using two magnet arrays. Biomicrofluidics, 2016, 10, 044103.	2.4	50
147	Coalescence Processes of Droplets and Liquid Marbles. Micromachines, 2017, 8, 336.	2.9	50
148	Generation and manipulation of monodispersed ferrofluid emulsions: The effect of a uniform magnetic field in flow-focusing and T-junction configurations. Physical Review E, 2011, 84, 036317.	2.1	49
149	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansion–contraction cavity arrays. Biomicrofluidics, 2015, 9, 044108.	2.4	49
150	Single-Crystalline 3C-SiC anodically Bonded onto Glass: An Excellent Platform for High-Temperature Electronics and Bioapplications. ACS Applied Materials & Interfaces, 2017, 9, 27365-27371.	8.0	49
151	Highly sensitive pressure sensors employing 3C-SiC nanowires fabricated on a free standing structure. Materials and Design, 2018, 156, 16-21.	7.0	49
152	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. Analytical Chemistry, 2017, 89, 4387-4391.	6.5	48
153	Optical biosensing strategies for DNA methylation analysis. Biosensors and Bioelectronics, 2017, 92, 668-678.	10.1	48
154	Nanoarchitectonics for Wide Bandgap Semiconductor Nanowires: Toward the Next Generation of Nanoelectromechanical Systems for Environmental Monitoring. Advanced Science, 2020, 7, 2001294.	11.2	48
155	Nanostructured mesoporous gold biosensor for microRNA detection at attomolar level. Biosensors and Bioelectronics, 2020, 168, 112429.	10.1	48
156	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 1422-1430.	4.0	47
157	Multiphysics microfluidics for cell manipulation and separation: a review. Lab on A Chip, 2022, 22, 423-444.	6.0	47
158	Giant piezoresistive effect by optoelectronic coupling in a heterojunction. Nature Communications, 2019, 10, 4139.	12.8	46
159	Advances in Rational Design and Materials of Highâ€Performance Stretchable Electromechanical Sensors. Small, 2020, 16, e1905707.	10.0	46
160	Rapid Mixing Using Two-Phase Hydraulic Focusing in Microchannels. Biomedical Microdevices, 2005, 7, 13-20.	2.8	45
161	Thermocapillary Effect of a Liquid Plug in Transient Temperature Fields. Japanese Journal of Applied Physics, 2005, 44, 1139-1142.	1.5	45
162	The Piezoresistive Effect in Top–Down Fabricated p-Type 3C-SiC Nanowires. IEEE Electron Device Letters, 2016, 37, 1029-1032.	3.9	45

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163	Effects of magnetic nanoparticles on mixing in droplet-based microfluidics. Physics of Fluids, 2019, 31,	4.0	45
164	Adhesive-based liquid metal radio-frequency microcoil for magnetic resonance relaxometry measurement. Lab on A Chip, 2012, 12, 287-294.	6.0	44
165	Heat transfer enhancement by recirculating flow within liquid plugs in microchannels. International Journal of Heat and Mass Transfer, 2012, 55, 1947-1956.	4.8	44
166	Deformation of a floating liquid marble. Soft Matter, 2015, 11, 4576-4583.	2.7	44
167	Gold-loaded nanoporous iron oxide nanocubes: a novel dispersible capture agent for tumor-associated autoantibody analysis in serum. Nanoscale, 2017, 9, 8805-8814.	5.6	44
168	Liquid marbles as biochemical reactors for the polymerase chain reaction. Lab on A Chip, 2019, 19, 3220-3227.	6.0	44
169	Microneedle Arrays for Sampling and Sensing Skin Interstitial Fluid. Chemosensors, 2021, 9, 83.	3.6	44
170	Eccentricity Effect of Micropatterned Surface on Contact Angle. Langmuir, 2012, 28, 4793-4799.	3.5	43
171	Negative magnetophoresis in diluted ferrofluid flow. Lab on A Chip, 2015, 15, 2998-3005.	6.0	43
172	Floating mechanism of a small liquid marble. Scientific Reports, 2016, 6, 21777.	3.3	43
173	A PCR-free electrochemical method for messenger RNA detection in cancer tissue samples. Biosensors and Bioelectronics, 2017, 98, 227-233.	10.1	43
174	Electro-osmotic control of the interface position of two-liquid flow through a microchannel. Journal of Micromechanics and Microengineering, 2007, 17, 358-366.	2.6	42
175	Anti-flooding cathode catalyst layer for high performance PEM fuel cell. Electrochemistry Communications, 2009, 11, 897-900.	4.7	42
176	Liquid marbles as bioreactors for the study of three-dimensional cell interactions. Biomedical Microdevices, 2017, 19, 31.	2.8	42
177	Sheathless separation of microalgae from bacteria using a simple straight channel based on viscoelastic microfluidics. Lab on A Chip, 2019, 19, 2811-2821.	6.0	42
178	Charge transport and activation energy of amorphous silicon carbide thin film on quartz at elevated temperature. Applied Physics Express, 2015, 8, 061303.	2.4	41
179	Experimental Investigation of Piezoresistive Effect in p-Type 4H–SiC. IEEE Electron Device Letters, 2017, 38, 955-958.	3.9	41
180	An Onâ€Chip SiC MEMS Device with Integrated Heating, Sensing, and Microfluidic Cooling Systems. Advanced Materials Interfaces, 2018, 5, 1800764.	3.7	41

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181	DNA methylation detection: recent developments in bisulfite free electrochemical and optical approaches. Analyst, The, 2018, 143, 4802-4818.	3.5	41
182	Novel approaches in cancer management with circulating tumor cell clusters. Journal of Science: Advanced Materials and Devices, 2019, 4, 1-18.	3.1	41
183	Liquid marble-based digital microfluidics – fundamentals and applications. Lab on A Chip, 2021, 21, 1199-1216.	6.0	41
184	Effects of hydrophobicity of the cathode catalyst layer on the performance of a PEM fuel cell. Electrochimica Acta, 2010, 55, 2706-2711.	5.2	40
185	Rapid determination of vitamin B12 concentration with a chemiluminescence lab on a chip. Lab on A Chip, 2012, 12, 2353.	6.0	40
186	Interface control of pressure-driven two-fluid flow in microchannels using electroosmosis. Journal of Micromechanics and Microengineering, 2005, 15, 2289-2297.	2.6	39
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188	Continuous flow polymerase chain reaction using a hybrid PMMA-PC microchip with improved heat tolerance. Sensors and Actuators B: Chemical, 2008, 130, 836-841.	7.8	39
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