

N-T Nguyen

List of Publications by Year in descending order

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621
papers

26,147
citations

6233

80
h-index

12558

132
g-index

652
all docs

652
docs citations

652
times ranked

21523
citing authors

#	ARTICLE	IF	CITATIONS
1	Micromixers—a review. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, R1-R16.	1.5	1,458
2	Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , 2016, 16, 10-34.	3.1	737
3	Advances in piezoelectric thin films for acoustic biosensors, acoustofluidics and lab-on-chip applications. <i>Progress in Materials Science</i> , 2017, 89, 31-91.	16.0	467
4	MEMS-Micropumps: A Review. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002, 124, 384-392.	0.8	465
5	Nanofluidic Devices and Their Applications. <i>Analytical Chemistry</i> , 2008, 80, 2326-2341.	3.2	345
6	Micromachined flow sensors—a review. <i>Flow Measurement and Instrumentation</i> , 1997, 8, 7-16.	1.0	342
7	Oxygen plasma treatment for reducing hydrophobicity of a sealed polydimethylsiloxane microchannel. <i>Biomicrofluidics</i> , 2010, 4, 32204.	1.2	337
8	Biological Functions and Current Advances in Isolation and Detection Strategies for Exosome Nanovesicles. <i>Small</i> , 2018, 14, 1702153.	5.2	335
9	Porous scaffolds for bone regeneration. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 1-9.	1.5	328
10	Micro-magnetofluidics: interactions between magnetism and fluid flow on the microscale. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 1-16.	1.0	324
11	Lab on a chip for continuous-flow magnetic cell separation. <i>Lab on A Chip</i> , 2015, 15, 959-970.	3.1	299
12	Rare cell isolation and analysis in microfluidics. <i>Lab on A Chip</i> , 2014, 14, 626.	3.1	273
13	Magnetic digital microfluidics—a review. <i>Lab on A Chip</i> , 2017, 17, 994-1008.	3.1	256
14	Active droplet sorting in microfluidics: a review. <i>Lab on A Chip</i> , 2017, 17, 751-771.	3.1	250
15	A membraneless hydrogen peroxide fuel cell using Prussian Blue as cathode material. <i>Energy and Environmental Science</i> , 2012, 5, 8225.	15.6	242
16	Circulating tumor DNA and liquid biopsy: opportunities, challenges, and recent advances in detection technologies. <i>Lab on A Chip</i> , 2018, 18, 1174-1196.	3.1	234
17	Avoiding Pre-Isolation Step in Exosome Analysis: Direct Isolation and Sensitive Detection of Exosomes Using Gold-Loaded Nanoporous Ferric Oxide Nanozymes. <i>Analytical Chemistry</i> , 2019, 91, 3827-3834.	3.2	209
18	SU-8 as a structural material for lab-on-a-chips and microelectromechanical systems. <i>Electrophoresis</i> , 2007, 28, 4539-4551.	1.3	206

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19	A review on membraneless laminar flow-based fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5675-5694.	3.8	205
20	The Piezoresistive Effect of SiC for MEMS Sensors at High Temperatures: A Review. <i>Journal of Microelectromechanical Systems</i> , 2015, 24, 1663-1677.	1.7	203
21	A polymeric microgripper with integrated thermal actuators. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 969-974.	1.5	201
22	Active droplet generation in microfluidics. <i>Lab on A Chip</i> , 2016, 16, 35-58.	3.1	199
23	A micro optofluidic splitter and switch based on hydrodynamic spreading. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 2169-2174.	1.5	188
24	Micro-optofluidic Lenses: A review. <i>Biomicrofluidics</i> , 2010, 4, .	1.2	179
25	Spheroids-on-a-chip: Recent advances and design considerations in microfluidic platforms for spheroid formation and culture. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 151-176.	4.0	175
26	Design, fabrication and characterization of drug delivery systems based on lab-on-a-chip technology. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 1403-1419.	6.6	173
27	Microfluidic gut-on-a-chip with three-dimensional villi structure. <i>Biomedical Microdevices</i> , 2017, 19, 37.	1.4	161
28	Engineering microfluidic concentration gradient generators for biological applications. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1-18.	1.0	152
29	Inertial particle separation by differential equilibrium positions in a symmetrical serpentine micro-channel. <i>Scientific Reports</i> , 2014, 4, 4527.	1.6	152
30	Temperature dependence of interfacial properties and viscosity of nanofluids for droplet-based microfluidics. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 085502.	1.3	143
31	Low-pressure, high-temperature thermal bonding of polymeric microfluidic devices and their applications for electrophoretic separation. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 1681-1688.	1.5	137
32	High-throughput micromixers based on acoustic streaming induced by surface acoustic wave. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 619-625.	1.0	132
33	Recent Advances and Future Perspectives on Microfluidic Liquid Handling. <i>Micromachines</i> , 2017, 8, 186.	1.4	131
34	Micromachined polymer electrolyte membrane and direct methanol fuel cells—a review. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, R1-R12.	1.5	130
35	Flexible Microfluidics: Fundamentals, Recent Developments, and Applications. <i>Micromachines</i> , 2019, 10, 830.	1.4	130
36	Quantum dot-based sensitive detection of disease specific exosome in serum. <i>Analyst, The</i> , 2017, 142, 2211-2219.	1.7	129

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37	Stretchable respiration sensors: Advanced designs and multifunctional platforms for wearable physiological monitoring. <i>Biosensors and Bioelectronics</i> , 2020, 166, 112460.	5.3	129
38	Gold-Loaded Nanoporous Ferric Oxide Nanocubes with Peroxidase-Mimicking Activity for Electrocatalytic and Colorimetric Detection of Autoantibody. <i>Analytical Chemistry</i> , 2017, 89, 11005-11013.	3.2	128
39	A fully polymeric micropump with piezoelectric actuator. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 137-143.	4.0	126
40	Miniature valveless pumps based on printed circuit board technique. <i>Sensors and Actuators A: Physical</i> , 2001, 88, 104-111.	2.0	120
41	Environment-friendly carbon nanotube based flexible electronics for noninvasive and wearable healthcare. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10061-10068.	2.7	119
42	Advanced liquid biopsy technologies for circulating biomarker detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6670-6704.	2.9	118
43	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. <i>Carbon</i> , 2020, 163, 385-394.	5.4	118
44	Magnetowetting and Sliding Motion of a Sessile Ferrofluid Droplet in the Presence of a Permanent Magnet. <i>Langmuir</i> , 2010, 26, 12553-12559.	1.6	116
45	Nanoarchitecture Frameworks for Electrochemical miRNA Detection. <i>Trends in Biochemical Sciences</i> , 2019, 44, 433-452.	3.7	115
46	Particle inertial focusing and its mechanism in a serpentine microchannel. <i>Microfluidics and Nanofluidics</i> , 2014, 17, 305-316.	1.0	114
47	Formation and manipulation of ferrofluid droplets at a microfluidic T-junction. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 045004.	1.5	113
48	Generation of three-dimensional multiple spheroid model of olfactory ensheathing cells using floating liquid marbles. <i>Scientific Reports</i> , 2015, 5, 15083.	1.6	113
49	Fabrication of planar nanofluidic channels in a thermoplastic by hot-embossing and thermal bonding. <i>Lab on A Chip</i> , 2007, 7, 520.	3.1	112
50	Nonlinear Deformation of a Ferrofluid Droplet in a Uniform Magnetic Field. <i>Langmuir</i> , 2011, 27, 14834-14841.	1.6	111
51	Micromagnetic resonance relaxometry for rapid label-free malaria diagnosis. <i>Nature Medicine</i> , 2014, 20, 1069-1073.	15.2	111
52	Nonlinear diffusive mixing in microchannels: theory and experiments. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 604-611.	1.5	109
53	Three-dimensional printing of biological matters. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 1-17.	1.5	108
54	Thermoresistive Effect for Advanced Thermal Sensors: Fundamentals, Design Considerations, and Applications. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 966-986.	1.7	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. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4783-4791.	2.9	107
56	An amplification-free electrochemical detection of exosomal miRNA-21 in serum samples. <i>Analyst</i> , The, 2018, 143, 1662-1669.	1.7	106
57	Recent advances and current challenges in magnetophoresis based micro magnetofluidics. <i>Biomicrofluidics</i> , 2018, 12, 031501.	1.2	105
58	Surface Modification Techniques for Endothelial Cell Seeding in PDMS Microfluidic Devices. <i>Biosensors</i> , 2020, 10, 182.	2.3	102
59	Long-Lived, Transferred Crystalline Silicon Carbide Nanomembranes for Implantable Flexible Electronics. <i>ACS Nano</i> , 2019, 13, 11572-11581.	7.3	101
60	Manipulation of liquid marbles. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 483-495.	1.0	100
61	Manipulation of ferrofluid droplets using planar coils. <i>Applied Physics Letters</i> , 2006, 89, 052509.	1.5	99
62	Tunable particle separation in a hybrid dielectrophoresis (DEP)- inertial microfluidic device. <i>Sensors and Actuators B: Chemical</i> , 2018, 267, 14-25.	4.0	99
63	Thermally mediated droplet formation in microchannels. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	98
64	A circular ferrofluid driven microchip for rapid polymerase chain reaction. <i>Lab on A Chip</i> , 2007, 7, 1012.	3.1	98
65	Graphite on paper as material for sensitive thermoresistive sensors. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8776-8779.	2.7	98
66	Digital polymerase chain reaction technology – recent advances and future perspectives. <i>Lab on A Chip</i> , 2018, 18, 3717-3732.	3.1	98
67	Hydrodynamic focusing in microchannels under consideration of diffusive dispersion: theories and experiments. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 965-974.	4.0	95
68	Optical detection for droplet size control in microfluidic droplet-based analysis systems. <i>Sensors and Actuators B: Chemical</i> , 2006, 117, 431-436.	4.0	92
69	Rapid magnetofluidic mixing in a uniform magnetic field. <i>Lab on A Chip</i> , 2012, 12, 4772.	3.1	92
70	Microfluidic Technology for the Generation of Cell Spheroids and Their Applications. <i>Micromachines</i> , 2017, 8, 94.	1.4	92
71	An investigation on the mechanism of droplet formation in a microfluidic T-junction. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 1-10.	1.0	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. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1039-1049.	4.0	90

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73	Micro check valves for integration into polymeric microfluidic devices. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 69-75.	1.5	89
74	Slug flow heat transfer without phase change in microchannels: A review. <i>Chemical Engineering Science</i> , 2015, 126, 283-295.	1.9	89
75	Thermally mediated breakup of drops in microchannels. <i>Applied Physics Letters</i> , 2006, 89, 234101.	1.5	88
76	High throughput extraction of plasma using a secondary flow-aided inertial microfluidic device. <i>RSC Advances</i> , 2014, 4, 33149.	1.7	88
77	A lab-on-a-chip for detection of nerve agent sarin in blood. <i>Lab on A Chip</i> , 2008, 8, 885.	3.1	87
78	Numerical and experimental investigations of the formation process of ferrofluid droplets. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 177-187.	1.0	86
79	A reliable method for bonding polydimethylsiloxane (PDMS) to polymethylmethacrylate (PMMA) and its application in micropumps. <i>Sensors and Actuators B: Chemical</i> , 2010, 151, 133-139.	4.0	85
80	Design and optimization of an ultrasonic flexural plate wave micropump using numerical simulation. <i>Sensors and Actuators A: Physical</i> , 1999, 77, 229-236.	2.0	84
81	Sample concentration in a microfluidic paper-based analytical device using ion concentration polarization. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 735-740.	4.0	84
82	Cell stretching devices as research tools: engineering and biological considerations. <i>Lab on A Chip</i> , 2016, 16, 3193-3203.	3.1	79
83	Gold-loaded nanoporous superparamagnetic nanocubes for catalytic signal amplification in detecting miRNA. <i>Chemical Communications</i> , 2017, 53, 8231-8234.	2.2	79
84	Core-shell microparticles: Generation approaches and applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2020, 5, 417-435.	1.5	79
85	RNA Biomarkers: Diagnostic and Prognostic Potentials and Recent Developments of Electrochemical Biosensors. <i>Small Methods</i> , 2017, 1, 1700131.	4.6	79
86	Convective "diffusive transport in parallel lamination micromixers. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 208-217.	1.0	78
87	Digital microfluidics with a magnetically actuated floating liquid marble. <i>Lab on A Chip</i> , 2016, 16, 2211-2218.	3.1	78
88	Acoustically induced bubbles in a microfluidic channel for mixing enhancement. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 847-852.	1.0	77
89	Microfluidic platform for controlling the differentiation of embryoid bodies. <i>Lab on A Chip</i> , 2009, 9, 2591.	3.1	77
90	Development of a polymeric micro fuel cell containing laser-micromachined flow channels. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, 231-236.	1.5	76

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91	Gold-loaded nanoporous ferric oxide nanocubes for electrocatalytic detection of microRNA at attomolar level. <i>Biosensors and Bioelectronics</i> , 2018, 101, 275-281.	5.3	76
92	Integrated flow sensor for in situ measurement and control of acoustic streaming in flexural plate wave micropumps. <i>Sensors and Actuators A: Physical</i> , 2000, 79, 115-121.	2.0	75
93	Modelling and optimization of micro optofluidic lenses. <i>Lab on A Chip</i> , 2009, 9, 1178.	3.1	75
94	A novel viscoelastic-based ferrofluid for continuous sheathless microfluidic separation of nonmagnetic microparticles. <i>Lab on A Chip</i> , 2016, 16, 3947-3956.	3.1	73
95	Air-breathing membraneless laminar flow-based fuel cell with flow-through anode. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3466-3476.	3.8	72
96	Nanoarchitected peroxidase-mimetic nanozymes: mesoporous nanocrystalline Fe^{2+} - or Fe^{3+} -iron oxide?. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5412-5422.	2.9	72
97	Thermally mediated control of liquid microdroplets at a bifurcation. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 065503.	1.3	71
98	An Electrochemical Method for the Detection of Disease-Specific Exosomes. <i>ChemElectroChem</i> , 2017, 4, 967-971.	1.7	71
99	Fundamental piezoresistive coefficients of p-type single crystalline 3C-SiC. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	70
100	Thermally controlled droplet formation in flow focusing geometry: formation regimes and effect of nanoparticle suspension. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 165501.	1.3	69
101	Capillary Filling in Closed End Nanochannels. <i>Langmuir</i> , 2010, 26, 13251-13255.	1.6	69
102	Ferrofluids for heat transfer enhancement under an external magnetic field. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 110-121.	2.5	69
103	Surface Acoustic Wave Driven Microfluidics – A Review. <i>Micro and Nanosystems</i> , 2010, 2, 217-225.	0.3	69
104	Thermal Flow Sensors for Harsh Environments. <i>Sensors</i> , 2017, 17, 2061.	2.1	68
105	Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg^{2+} detection. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 28-34.	5.0	67
106	A polymeric piezoelectric micropump based on lamination technology. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 632-638.	1.5	66
107	A floating self-propelling liquid marble containing aqueous ethanol solutions. <i>RSC Advances</i> , 2015, 5, 101006-101012.	1.7	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. <i>Sensors and Actuators A: Physical</i> , 1997, 62, 506-512.	2.0	64

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109	A laser-micromachined polymeric membraneless fuel cell. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1107-1113.	1.5	64
110	Microdroplet formation of water and nanofluids in heat-induced microfluidic T-junction. <i>Microfluidics and Nanofluidics</i> , 2009, 6, 253-259.	1.0	64
111	Advances in Microfluidics-Based Assisted Reproductive Technology: From Sperm Sorter to Reproductive System-on-a-Chip. <i>Advanced Biology</i> , 2018, 2, 1700197.	3.0	64
112	Numerical study of the formation process of ferrofluid droplets. <i>Physics of Fluids</i> , 2011, 23, .	1.6	63
113	Enhancing malaria diagnosis through microfluidic cell enrichment and magnetic resonance relaxometry detection. <i>Scientific Reports</i> , 2015, 5, 11425.	1.6	63
114	Challenges and perspectives in the development of paper-based lateral flow assays. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	1.0	63
115	Thermocapillary actuation of droplet in a planar microchannel. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 205-214.	1.0	62
116	Real-time control of inertial focusing in microfluidics using dielectrophoresis (DEP). <i>RSC Advances</i> , 2014, 4, 62076-62085.	1.7	62
117	Detection of the SARS-CoV-2 humanized antibody with paper-based ELISA. <i>Analyst, The</i> , 2020, 145, 7680-7686.	1.7	62
118	Hydrogels as artificial matrices for cell seeding in microfluidic devices. <i>RSC Advances</i> , 2020, 10, 43682-43703.	1.7	62
119	Mixing in microchannels based on hydrodynamic focusing and time-interleaved segmentation: modelling and experiment. <i>Lab on A Chip</i> , 2005, 5, 1320.	3.1	61
120	An air-breathing microfluidic formic acid fuel cell with a porous planar anode: experimental and numerical investigations. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 105008.	1.5	61
121	Advances in ultrasensitive piezoresistive sensors: from conventional to flexible and stretchable applications. <i>Materials Horizons</i> , 2021, 8, 2123-2150.	6.4	61
122	Deformation of Ferrofluid Marbles in the Presence of a Permanent Magnet. <i>Langmuir</i> , 2013, 29, 13982-13989.	1.6	60
123	Electrochemical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017, 94, 63-73.	5.3	60
124	Highly sensitive 4H-SiC pressure sensor at cryogenic and elevated temperatures. <i>Materials and Design</i> , 2018, 156, 441-445.	3.3	60
125	Liquid Marbles as Miniature Reactors for Chemical and Biological Applications. <i>Processes</i> , 2020, 8, 793.	1.3	60
126	Efficient mixing of viscoelastic fluids in a microchannel at low Reynolds number. <i>Microfluidics and Nanofluidics</i> , 2006, 3, 101-108.	1.0	59

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127	Kinematics and deformation of ferrofluid droplets under magnetic actuation. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 571-579.	1.0	59
128	Circulating tumor microemboli: Progress in molecular understanding and enrichment technologies. <i>Biotechnology Advances</i> , 2018, 36, 1367-1389.	6.0	59
129	Laser induced graphene for biosensors. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00205.	1.7	59
130	Thickness dependence of the piezoresistive effect in p-type single crystalline 3C-SiC nanothin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7176-7179.	2.7	58
131	Modeling and optimization of planar microcoils. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 095018.	1.5	56
132	Detection of regional DNA methylation using DNA-graphene affinity interactions. <i>Biosensors and Bioelectronics</i> , 2017, 87, 615-621.	5.3	56
133	Hybrid-assembled micro dosing system using silicon-based micropump/ valve and mass flow sensor. <i>Sensors and Actuators A: Physical</i> , 1998, 69, 85-91.	2.0	55
134	Thermal mixing of two miscible fluids in a T-shaped microchannel. <i>Biomicrofluidics</i> , 2010, 4, 44102.	1.2	55
135	Piezoresistive effect in p-type 3C-SiC at high temperatures characterized using Joule heating. <i>Scientific Reports</i> , 2016, 6, 28499.	1.6	55
136	Solvent-free fabrication of biodegradable hot-film flow sensor for noninvasive respiratory monitoring. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 215401.	1.3	54
137	Acoustic streaming in micromachined flexural plate wave devices: numerical simulation and experimental verification. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2000, 47, 1463-1471.	1.7	53
138	Air-breathing microfluidic fuel cell with fuel reservoir. <i>Journal of Power Sources</i> , 2012, 209, 312-317.	4.0	53
139	Autoantibodies as diagnostic and prognostic cancer biomarker: Detection techniques and approaches. <i>Biosensors and Bioelectronics</i> , 2019, 139, 111315.	5.3	53
140	Prediction of Necrotic Core and Hypoxic Zone of Multicellular Spheroids in a Microbioreactor with a U-Shaped Barrier. <i>Micromachines</i> , 2018, 9, 94.	1.4	52
141	Piezoresistive Effect of p-Type Single Crystalline 3C-SiC Thin Film. <i>IEEE Electron Device Letters</i> , 2014, 35, 399-401.	2.2	51
142	Microfluidic-Based Nucleic Acid Amplification Systems in Microbiology. <i>Micromachines</i> , 2019, 10, 408.	1.4	51
143	Fundamentals of Differential Particle Inertial Focusing in Symmetric Sinusoidal Microchannels. <i>Analytical Chemistry</i> , 2019, 91, 4077-4084.	3.2	51
144	Experimental and computational analysis of droplet formation in a high-performance flow-focusing geometry. <i>Sensors and Actuators A: Physical</i> , 2007, 138, 203-212.	2.0	50

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145	A polymeric cell stretching device for real-time imaging with optical microscopy. <i>Biomedical Microdevices</i> , 2013, 15, 1043-1054.	1.4	50
146	Magnetofluidic concentration and separation of non-magnetic particles using two magnet arrays. <i>Biomicrofluidics</i> , 2016, 10, 044103.	1.2	50
147	Coalescence Processes of Droplets and Liquid Marbles. <i>Micromachines</i> , 2017, 8, 336.	1.4	50
148	Generation and manipulation of monodispersed ferrofluid emulsions: The effect of a uniform magnetic field in flow-focusing and T-junction configurations. <i>Physical Review E</i> , 2011, 84, 036317.	0.8	49
149	Dean-flow-coupled elasto-inertial three-dimensional particle focusing under viscoelastic flow in a straight channel with asymmetrical expansion-contraction cavity arrays. <i>Biomicrofluidics</i> , 2015, 9, 044108.	1.2	49
150	Single-Crystalline 3C-SiC anodically Bonded onto Glass: An Excellent Platform for High-Temperature Electronics and Bioapplications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27365-27371.	4.0	49
151	Highly sensitive pressure sensors employing 3C-SiC nanowires fabricated on a free standing structure. <i>Materials and Design</i> , 2018, 156, 16-21.	3.3	49
152	Negative Pressure Induced Droplet Generation in a Microfluidic Flow-Focusing Device. <i>Analytical Chemistry</i> , 2017, 89, 4387-4391.	3.2	48
153	Optical biosensing strategies for DNA methylation analysis. <i>Biosensors and Bioelectronics</i> , 2017, 92, 668-678.	5.3	48
154	Nanoarchitectonics for Wide Bandgap Semiconductor Nanowires: Toward the Next Generation of Nanoelectromechanical Systems for Environmental Monitoring. <i>Advanced Science</i> , 2020, 7, 2001294.	5.6	48
155	Nanostructured mesoporous gold biosensor for microRNA detection at attomolar level. <i>Biosensors and Bioelectronics</i> , 2020, 168, 112429.	5.3	48
156	High-Throughput Separation of White Blood Cells From Whole Blood Using Inertial Microfluidics. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 1422-1430.	2.7	47
157	Multiphysics microfluidics for cell manipulation and separation: a review. <i>Lab on A Chip</i> , 2022, 22, 423-444.	3.1	47
158	Giant piezoresistive effect by optoelectronic coupling in a heterojunction. <i>Nature Communications</i> , 2019, 10, 4139.	5.8	46
159	Advances in Rational Design and Materials of High-Performance Stretchable Electromechanical Sensors. <i>Small</i> , 2020, 16, e1905707.	5.2	46
160	Rapid Mixing Using Two-Phase Hydraulic Focusing in Microchannels. <i>Biomedical Microdevices</i> , 2005, 7, 13-20.	1.4	45
161	Thermocapillary Effect of a Liquid Plug in Transient Temperature Fields. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 1139-1142.	0.8	45
162	The Piezoresistive Effect in Top-Down Fabricated p-Type 3C-SiC Nanowires. <i>IEEE Electron Device Letters</i> , 2016, 37, 1029-1032.	2.2	45

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163	Effects of magnetic nanoparticles on mixing in droplet-based microfluidics. <i>Physics of Fluids</i> , 2019, 31, .	1.6	45
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