

Majid Ebrahimi Warkiani

List of Publications by Year in descending order

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184
papers

8,955
citations

47006

47
h-index

49909

87
g-index

189
all docs

189
docs citations

189
times ranked

9720
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , 2016, 16, 10-34.	6.0	737
2	Isolation and retrieval of circulating tumor cells using centrifugal forces. <i>Scientific Reports</i> , 2013, 3, 1259.	3.3	618
3	Slanted spiral microfluidics for the ultra-fast, label-free isolation of circulating tumor cells. <i>Lab on A Chip</i> , 2014, 14, 128-137.	6.0	485
4	Ultra-fast, label-free isolation of circulating tumor cells from blood using spiral microfluidics. <i>Nature Protocols</i> , 2016, 11, 134-148.	12.0	439
5	Design and applications of MEMS flow sensors: A review. <i>Sensors and Actuators A: Physical</i> , 2019, 295, 483-502.	4.1	233
6	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.	7.8	175
7	An ultra-high-throughput spiral microfluidic biochip for the enrichment of circulating tumor cells. <i>Analyst</i> , 2014, 139, 3245-3255.	3.5	173
8	Clinical Validation of an Ultra High-Throughput Spiral Microfluidics for the Detection and Enrichment of Viable Circulating Tumor Cells. <i>PLoS ONE</i> , 2014, 9, e99409.	2.5	165
9	Isoporous Micro/Nanoengineered Membranes. <i>ACS Nano</i> , 2013, 7, 1882-1904.	14.6	140
10	Electrically conductive nanomaterials for cardiac tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2019, 144, 162-179.	13.7	137
11	Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. <i>Lab on A Chip</i> , 2016, 16, 2791-2802.	6.0	135
12	Short-term expansion of breast circulating cancer cells predicts response to anti-cancer therapy. <i>Oncotarget</i> , 2015, 6, 15578-15593.	1.8	134
13	Understanding the tumor microenvironment for effective immunotherapy. <i>Medicinal Research Reviews</i> , 2021, 41, 1474-1498.	10.5	130
14	Membrane-less microfiltration using inertial microfluidics. <i>Scientific Reports</i> , 2015, 5, 11018.	3.3	126
15	Large-scale production of stem cells utilizing microcarriers: A biomaterials engineering perspective from academic research to commercialized products. <i>Biomaterials</i> , 2018, 181, 333-346.	11.4	126
16	Computational inertial microfluidics: a review. <i>Lab on A Chip</i> , 2020, 20, 1023-1048.	6.0	121
17	3D Printing of Inertial Microfluidic Devices. <i>Scientific Reports</i> , 2020, 10, 5929.	3.3	121
18	From Biological Cilia to Artificial Flow Sensors: Biomimetic Soft Polymer Nanosensors with High Sensing Performance. <i>Scientific Reports</i> , 2016, 6, 32955.	3.3	117

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19	Artificial fish skin of self-powered micro-electromechanical systems hair cells for sensing hydrodynamic flow phenomena. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150322.	3.4	113
20	Flow-induced stress on adherent cells in microfluidic devices. <i>Lab on A Chip</i> , 2015, 15, 4114-4127.	6.0	111
21	Malaria detection using inertial microfluidics. <i>Lab on A Chip</i> , 2015, 15, 1101-1109.	6.0	108
22	Lung-on-a-chip: the future of respiratory disease models and pharmacological studies. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 213-230.	9.0	108
23	Large-Volume Microfluidic Cell Sorting for Biomedical Applications. <i>Annual Review of Biomedical Engineering</i> , 2015, 17, 1-34.	12.3	96
24	The Prognostic Role of Circulating Tumor Cells (CTCs) in Lung Cancer. <i>Frontiers in Oncology</i> , 2018, 8, 311.	2.8	94
25	COVID-19 spread in a classroom equipped with partition“ A CFD approach. <i>Journal of Hazardous Materials</i> , 2021, 420, 126587.	12.4	91
26	Selective separation of microalgae cells using inertial microfluidics. <i>Bioresource Technology</i> , 2018, 252, 91-99.	9.6	86
27	Jetting microfluidics with size-sorting capability for single-cell protease detection. <i>Biosensors and Bioelectronics</i> , 2015, 66, 19-23.	10.1	81
28	Mist harvesting using bioinspired polydopamine coating and microfabrication technology. <i>Desalination</i> , 2018, 429, 111-118.	8.2	80
29	Advances in microfluidics in combating infectious diseases. <i>Biotechnology Advances</i> , 2016, 34, 404-421.	11.7	79
30	Characterization of single polyvinylidene fluoride (PVDF) nanofiber for flow sensing applications. <i>AIP Advances</i> , 2017, 7, .	1.3	74
31	Engineering a 3D microfluidic culture platform for tumor-treating field application. <i>Scientific Reports</i> , 2016, 6, 26584.	3.3	73
32	A microfluidic framework for studying relative permeability in coal. <i>International Journal of Coal Geology</i> , 2016, 159, 183-193.	5.0	70
33	Enrichment of circulating head and neck tumour cells using spiral microfluidic technology. <i>Scientific Reports</i> , 2017, 7, 42517.	3.3	69
34	The role of vitamin D in the age of COVID-19: A systematic review and meta-analysis. <i>International Journal of Clinical Practice</i> , 2021, 75, e14675.	1.7	68
35	Microfluidic Cell Retention Device for Perfusion of Mammalian Suspension Culture. <i>Scientific Reports</i> , 2017, 7, 6703.	3.3	66
36	Sensitive and Flexible Polymeric Strain Sensor for Accurate Human Motion Monitoring. <i>Sensors</i> , 2018, 18, 418.	3.8	65

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37	A 3D-printed mini-hydrocyclone for high throughput particle separation: application to primary harvesting of microalgae. <i>Lab on A Chip</i> , 2017, 17, 2459-2469.	6.0	63
38	PD-L1 expressing circulating tumour cells in head and neck cancers. <i>BMC Cancer</i> , 2017, 17, 333.	2.6	61
39	A hybrid micromixer with planar mixing units. <i>RSC Advances</i> , 2018, 8, 33103-33120.	3.6	58
40	A rapidly prototyped lung-on-a-chip model using 3D-printed molds. <i>Organs-on-a-Chip</i> , 2019, 1, 100001.	3.2	58
41	A Comprehensive Review on Intracellular Delivery. <i>Advanced Materials</i> , 2021, 33, e2005363.	21.0	58
42	Microfluidics for research and applications in oncology. <i>Analyst</i> , The, 2016, 141, 504-524.	3.5	54
43	Rapid separation and identification of beer spoilage bacteria by inertial microfluidics and MALDI-TOF mass spectrometry. <i>Lab on A Chip</i> , 2019, 19, 1961-1970.	6.0	54
44	Point of Care Diagnostics in the Age of COVID-19. <i>Diagnostics</i> , 2021, 11, 9.	2.6	54
45	A Collective Route to Head and Neck Cancer Metastasis. <i>Scientific Reports</i> , 2018, 8, 746.	3.3	53
46	Promoted chondrogenesis of hMCSs with controlled release of TGF- β 3 via microfluidics synthesized alginate nanogels. <i>Carbohydrate Polymers</i> , 2020, 229, 115551.	10.2	53
47	Single-cell profiling approaches to probing tumor heterogeneity. <i>International Journal of Cancer</i> , 2016, 139, 243-255.	5.1	52
48	Rapid and Label-Free Isolation of Tumour Cells from the Urine of Patients with Localised Prostate Cancer Using Inertial Microfluidics. <i>Cancers</i> , 2020, 12, 81.	3.7	52
49	Rapid Softlithography Using 3D-Printed Molds. <i>Advanced Materials Technologies</i> , 2019, 4, 1900425.	5.8	51
50	The Use of Microfluidic Technology for Cancer Applications and Liquid Biopsy. <i>Micromachines</i> , 2018, 9, 397.	2.9	50
51	Short term <i>ex-vivo</i> expansion of circulating head and neck tumour cells. <i>Oncotarget</i> , 2016, 7, 60101-60109.	1.8	48
52	Preparation of Iridescent 2D Photonic Crystals by Using a Mussel-Inspired Spatial Patterning of ZIF-8 with Potential Applications in Optical Switch and Chemical Sensor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38076-38080.	8.0	47
53	Simulating Inflammation in a Wound Microenvironment Using a Dermal Wound-on-a-Chip Model. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801307.	7.6	46
54	An easily fabricated three-dimensional threaded lemniscate-shaped micromixer for a wide range of flow rates. <i>Biomicrofluidics</i> , 2017, 11, 014108.	2.4	45

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55	Isolation and detection of circulating tumour cells from metastatic melanoma patients using a slanted spiral microfluidic device. <i>Oncotarget</i> , 2017, 8, 67355-67368.	1.8	45
56	Microfluidics for Porous Systems: Fabrication, Microscopy and Applications. <i>Transport in Porous Media</i> , 2019, 130, 277-304.	2.6	43
57	Fabrication of unconventional inertial microfluidic channels using wax 3D printing. <i>Soft Matter</i> , 2020, 16, 2448-2459.	2.7	42
58	A miniaturized piezoresistive flow sensor for real-time monitoring of intravenous infusion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 568-576.	3.4	41
59	Surface modification of polypropylene membrane for the removal of iodine using polydopamine chemistry. <i>Chemosphere</i> , 2020, 249, 126079.	8.2	40
60	Inertial particle focusing dynamics in a trapezoidal straight microchannel: application to particle filtration. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	39
61	Upregulation of PD-L1 expression in breast cancer cells through the formation of 3D multicellular cancer aggregates under different chemical and mechanical conditions. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 118526.	4.1	39
62	Experimental and numerical study of elasto-inertial focusing in straight channels. <i>Biomicrofluidics</i> , 2019, 13, 034103.	2.4	39
63	The Effects of COVID-19 on the Placenta During Pregnancy. <i>Frontiers in Immunology</i> , 2021, 12, 743022.	4.8	39
64	Melanoma circulating tumor cells: Benefits and challenges required for clinical application. <i>Cancer Letters</i> , 2018, 424, 1-8.	7.2	38
65	3D printing enables the rapid prototyping of modular microfluidic devices for particle conjugation. <i>Applied Materials Today</i> , 2020, 20, 100726.	4.3	38
66	High-throughput sorting of eggs for synchronization of <i>C. elegans</i> in a microfluidic spiral chip. <i>Lab on A Chip</i> , 2018, 18, 679-687.	6.0	35
67	Transparent Surfaces Inspired by Nature. <i>Advanced Optical Materials</i> , 2018, 6, 1800091.	7.3	34
68	Biocatalytic micromixer coated with enzyme-MOF thin film for CO ₂ conversion to formic acid. <i>Chemical Engineering Journal</i> , 2021, 426, 130856.	12.7	34
69	Phenotypic Characterization of Circulating Lung Cancer Cells for Clinically Actionable Targets. <i>Cancers</i> , 2019, 11, 380.	3.7	33
70	Isolation of Circulating Fetal Trophoblasts Using Inertial Microfluidics for Noninvasive Prenatal Testing. <i>Advanced Materials Technologies</i> , 2018, 3, 1800066.	5.8	32
71	Strategically Designing a Pumpless Microfluidic Device on an Inert Polypropylene Substrate with Potential Application in Biosensing and Diagnostics. <i>Langmuir</i> , 2017, 33, 5565-5576.	3.5	31
72	A hybrid microfluidic system for regulation of neural differentiation in induced pluripotent stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1534-1543.	4.0	30

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73	A microfluidic approach to rapid sperm recovery from heterogeneous cell suspensions. Scientific Reports, 2021, 11, 7917.	3.3	30
74	A high-flux isopore micro-fabricated membrane for effective concentration and recovering of waterborne pathogens. Biomedical Microdevices, 2012, 14, 669-677.	2.8	29
75	Fabrication of multi-layer polymeric micro-sieve having narrow slot pores with conventional ultraviolet-lithography and micro-fabrication techniques. Biomicrofluidics, 2011, 5, 36504-365049.	2.4	27
76	Static droplet array for culturing single live adherent cells in an isolated chemical microenvironment. Lab on A Chip, 2018, 18, 2156-2166.	6.0	27
77	Emerging Standards and the Hybrid Model for Organizing Scientific Events During and After the COVID-19 Pandemic. Disaster Medicine and Public Health Preparedness, 2022, 16, 1172-1177.	1.3	27
78	Coal-on-a-Chip: Visualizing Flow in Coal Fractures. Energy & Fuels, 2017, 31, 10393-10403.	5.1	27
79	Incorporation of Nanoalumina Improves Mechanical Properties and Osteogenesis of Hydroxyapatite Bioceramics. ACS Biomaterials Science and Engineering, 2018, 4, 1324-1336.	5.2	26
80	Inertial-Based Filtration Method for Removal of Microcarriers from Mesenchymal Stem Cell Suspensions. Scientific Reports, 2018, 8, 12481.	3.3	26
81	Development of a Biomimetic Semicircular Canal With MEMS Sensors to Restore Balance. IEEE Sensors Journal, 2019, 19, 11675-11686.	4.7	26
82	High-Plex and High-Throughput Digital Spatial Profiling of Non-Small-Cell Lung Cancer (NSCLC). Cancers, 2020, 12, 3551.	3.7	26
83	<p>ZIF-8 Modified Polypropylene Membrane: A Biomimetic Cell Culture Platform with a View to the Improvement of Guided Bone Regeneration<p>. International Journal of Nanomedicine, 2020, Volume 15, 10029-10043.	6.7	26
84	Metalâ€“Organic Framework-Enhanced ELISA Platform for Ultrasensitive Detection of PD-L1. ACS Applied Bio Materials, 2020, 3, 4148-4158.	4.6	26
85	Advances of microfluidic technology in reproductive biology. Life Sciences, 2021, 265, 118767.	4.3	26
86	MEMS piezoresistive flow sensors for sleep apnea therapy. Sensors and Actuators A: Physical, 2018, 279, 577-585.	4.1	25
87	Modulating cancer cell mechanics and actin cytoskeleton structure by chemical and mechanical stimulations. Journal of Biomedical Materials Research - Part A, 2019, 107, 1569-1581.	4.0	25
88	Pirfenidone reduces immune-suppressive capacity of cancer-associated fibroblasts through targeting CCL17 and TNF-beta. Integrative Biology (United Kingdom), 2020, 12, 188-197.	1.3	25
89	Mesenchymal stem cells induce PDâ€“1 expression through the secretion of CCL5 in breast cancer cells. Journal of Cellular Physiology, 2021, 236, 3918-3928.	4.1	25
90	Ex vivo culture of circulating tumour cells derived from non-small cell lung cancer. Translational Lung Cancer Research, 2020, 9, 1795-1809.	2.8	24

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91	Attenuation of Cigarette-Smoke-Induced Oxidative Stress, Senescence, and Inflammation by Berberine-Loaded Liquid Crystalline Nanoparticles: In Vitro Study in 16HBE and RAW264.7 Cells. <i>Antioxidants</i> , 2022, 11, 873.	5.1	24
92	Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. <i>Advanced Materials Technologies</i> , 2019, 4, 1800726.	5.8	23
93	The evolving landscape of predictive biomarkers in immuno-oncology with a focus on spatial technologies. <i>Clinical and Translational Immunology</i> , 2020, 9, e1215.	3.8	23
94	Overcoming Multidrug Resistance of Antibiotics via Nanodelivery Systems. <i>Pharmaceutics</i> , 2022, 14, 586.	4.5	23
95	Capturing and recovering of <i>Cryptosporidium parvum</i> oocysts with polymeric micro-fabricated filter. <i>Journal of Membrane Science</i> , 2011, 369, 560-568.	8.2	22
96	Combined effects of 3D bone marrow stem cell-seeded wet-electrospun poly lactic acid scaffolds on full-thickness skin wound healing. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018, 67, 905-912.	3.4	22
97	Capillary-assisted microfluidic biosensing platform captures single cell secretion dynamics in nanoliter compartments. <i>Biosensors and Bioelectronics</i> , 2020, 155, 112113.	10.1	22
98	High-Throughput Particle Concentration Using Complex Cross-Section Microchannels. <i>Micromachines</i> , 2020, 11, 440.	2.9	22
99	A Reappraisal of Circulating Fetal Cell Noninvasive Prenatal Testing. <i>Trends in Biotechnology</i> , 2019, 37, 632-644.	9.3	21
100	Obstacle-free planar hybrid micromixer with low pressure drop. <i>Microfluidics and Nanofluidics</i> , 2020, 24, 1.	2.2	21
101	The effects of baffle configuration and number on inertial mixing in a curved serpentine micromixer: Experimental and numerical study. <i>Chemical Engineering Research and Design</i> , 2021, 168, 490-498.	5.6	21
102	Development of a fiber-based membraneless hydrogen peroxide fuel cell. <i>RSC Advances</i> , 2017, 7, 40755-40760.	3.6	20
103	New insights into the physics of inertial microfluidics in curved microchannels. I. Relaxing the fixed inflection point assumption. <i>Biomicrofluidics</i> , 2019, 13, 034117.	2.4	20
104	The role of 3D printing in the fight against COVID-19 outbreak. <i>Journal of 3D Printing in Medicine</i> , 2021, 5, 51-60.	2.0	20
105	Diagnostic value of serum HER2 levels in breast cancer: a systematic review and meta-analysis. <i>BMC Cancer</i> , 2020, 20, 1049.	2.6	19
106	Emerging role of circulating tumor cells in immunotherapy. <i>Theranostics</i> , 2021, 11, 8057-8075.	10.0	19
107	Fabrication and characterization of a microporous polymeric micro-filter for isolation of <i>Cryptosporidium parvum</i> oocysts. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 035002.	2.6	18
108	Circulating tumor cell clusters: Insights into tumour dissemination and metastasis. <i>Expert Review of Molecular Diagnostics</i> , 2020, 20, 1139-1147.	3.1	18

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109	A simple coating method of PDMS microchip with PTFE for synthesis of dexamethasone-encapsulated PLGA nanoparticles. <i>Drug Delivery and Translational Research</i> , 2019, 9, 707-720.	5.8	17
110	Unidirectional intercellular communication on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2021, 175, 112833.	10.1	17
111	Polymeric micro-filter manufactured by a dissolving mold technique. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 075005.	2.6	16
112	Characterizing the effect of substrate stiffness on the extravasation potential of breast cancer cells using a 3D microfluidic model. <i>Biotechnology and Bioengineering</i> , 2021, 118, 823-835.	3.3	16
113	Simple-to-Operate Approach for Single Cell Analysis Using a Hydrophobic Surface and Nanosized Droplets. <i>Analytical Chemistry</i> , 2021, 93, 4584-4592.	6.5	16
114	Recent Advances in Chronotherapy Targeting Respiratory Diseases. <i>Pharmaceutics</i> , 2021, 13, 2008.	4.5	16
115	Single-cell analysis of circulating tumour cells: enabling technologies and clinical applications. <i>Trends in Biotechnology</i> , 2022, 40, 1041-1060.	9.3	16
116	Manipulating electrokinetic conductance of nanofluidic channel by varying inlet pH of solution. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	15
117	Miniature auto-perfusion bioreactor system with spiral microfluidic cell retention device. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1951-1961.	3.3	15
118	Isolation of Circulating Tumour Cells in Patients With Glioblastoma Using Spiral Microfluidic Technology – A Pilot Study. <i>Frontiers in Oncology</i> , 2021, 11, 681130.	2.8	15
119	Clinical Applications of Circulating Tumour Cells and Circulating Tumour DNA in Non-Small Cell Lung Cancer – An Update. <i>Frontiers in Oncology</i> , 2022, 12, 859152.	2.8	15
120	Investigation of membrane fouling at the microscale using isopore filters. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 307-315.	2.2	14
121	Emerging Insights into Keratin 16 Expression during Metastatic Progression of Breast Cancer. <i>Cancers</i> , 2021, 13, 3869.	3.7	14
122	Design and Analysis of a Wireless Nanosensor Network for Monitoring Human Lung Cells. , 2015, , .		14
123	Microfluidic-Based Droplets for Advanced Regenerative Medicine: Current Challenges and Future Trends. <i>Biosensors</i> , 2022, 12, 20.	4.7	14
124	Characterizing terahertz channels for monitoring human lungs with wireless nanosensor networks. <i>Nano Communication Networks</i> , 2016, 9, 43-57.	2.9	13
125	Scaled-Up Inertial Microfluidics: Retention System for Microcarrier-Based Suspension Cultures. <i>Biotechnology Journal</i> , 2019, 14, e1800674.	3.5	13
126	Mussel inspired ZIF8 microcarriers: a new approach for large-scale production of stem cells. <i>RSC Advances</i> , 2020, 10, 20118-20128.	3.6	13

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127	An easy-to-operate method for single-cell isolation and retrieval using a microfluidic static droplet array. <i>Mikrochimica Acta</i> , 2021, 188, 242.	5.0	13
128	A rapid co-culture stamping device for studying intercellular communication. <i>Scientific Reports</i> , 2016, 6, 35618.	3.3	12
129	Alkaline Surfactant Polymer Flooding: What Happens at the Pore Scale?. , 2017, , .		12
130	An Efficient Graphene Quantum Dots-Based Electrochemical Cytosensor for the Sensitive Recognition of CD123 in Acute Myeloid Leukemia Cells. <i>IEEE Sensors Journal</i> , 2021, 21, 16451-16463.	4.7	12
131	The Pandora's box of novel technologies that may revolutionize lung cancer. <i>Lung Cancer</i> , 2021, 159, 34-41.	2.0	12
132	Pirfenidone Reduces Epithelial-Mesenchymal Transition and Spheroid Formation in Breast Carcinoma through Targeting Cancer-Associated Fibroblasts (CAFs). <i>Cancers</i> , 2021, 13, 5118.	3.7	12
133	An Accurate PSO-GA Based Neural Network to Model Growth of Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-6.	2.7	11
134	A 3D-printed microfluidic platform for simulating the effects of CPAP on the nasal epithelium. <i>Biofabrication</i> , 2021, 13, 035028.	7.1	11
135	Enhancing osteoregenerative potential of biphasic calcium phosphates by using bioinspired ZIF8 coating. <i>Materials Science and Engineering C</i> , 2021, 123, 111972.	7.3	11
136	Decellularized human amniotic membrane reinforced by MoS ₂ -Polycaprolactone nanofibers, a novel conductive scaffold for cardiac tissue engineering. <i>Journal of Biomaterials Applications</i> , 2022, 36, 1527-1539.	2.4	11
137	Spermatogenesis induction of spermatogonial stem cells using nanofibrous poly(l-lactide) Tj ETQq1 1 0.784314 rgBT /Over 2019, 30, 3011-3025.	3.2	10
138	New insights into the physics of inertial microfluidics in curved microchannels. II. Adding an additive rule to understand complex cross-sections. <i>Biomicrofluidics</i> , 2019, 13, 034118.	2.4	10
139	PCR-free paper-based nanobiosensing platform for visual detection of telomerase activity via gold enhancement. <i>Microchemical Journal</i> , 2020, 154, 104594.	4.5	10
140	Machine learning reveals mesenchymal breast carcinoma cell adaptation in response to matrix stiffness. <i>PLoS Computational Biology</i> , 2021, 17, e1009193.	3.2	10
141	Numerical and Experimental Study of Cross-Sectional Effects on the Mixing Performance of the Spiral Microfluidics. <i>Micromachines</i> , 2021, 12, 1470.	2.9	10
142	Understanding the tumor microenvironment in head and neck squamous cell carcinoma. <i>Clinical and Translational Immunology</i> , 2022, 11, .	3.8	10
143	Isolation of Circulating Tumor Cells from Seminal Fluid of Patients with Prostate Cancer Using Inertial Microfluidics. <i>Cancers</i> , 2022, 14, 3364.	3.7	10
144	Circulating tumour cell RNA characterisation from colorectal cancer patient blood after inertial microfluidic enrichment. <i>MethodsX</i> , 2019, 6, 1512-1520.	1.6	9

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145	A two-step microengineered system for high-density cell retention from bioreactors. Separation and Purification Technology, 2021, 254, 117610.	7.9	9
146	Numerical and experimental study of capillary-driven flow of PCR solution in hybrid hydrophobic microfluidic networks. Biomedical Microdevices, 2016, 18, 68.	2.8	8
147	Particle movement and fluid behavior visualization using an optically transparent 3D-printed micro-hydrocyclone. Biomicrofluidics, 2020, 14, 064106.	2.4	8
148	Application of microfluidic technology in cancer research and therapy. Advances in Clinical Chemistry, 2020, 99, 193-235.	3.7	8
149	Improving capture efficiency of human cancer cell derived exosomes with nanostructured metal organic framework functionalized beads. Applied Materials Today, 2021, 23, 100994.	4.3	8
150	Effects of sample rheology on the equilibrium position of particles and cells within a spiral microfluidic channel. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	8
151	Background-free fibre optic Brillouin probe for remote mapping of micromechanics. Biomedical Optics Express, 2020, 11, 6687.	2.9	8
152	Reliability analysis of time-varying wireless nanoscale sensor networks. , 2015, , .		7
153	A Novel Microfluidic Device-Based Neurite Outgrowth Inhibition Assay Reveals the Neurite Outgrowth-Promoting Activity of Tropomyosin Tpm3.1 in Hippocampal Neurons. Cellular and Molecular Neurobiology, 2018, 38, 1557-1563.	3.3	7
154	Engineering biomimetic hair bundle sensors for underwater sensing applications. AIP Conference Proceedings, 2018, , .	0.4	7
155	A modular 3D printed microfluidic system: a potential solution for continuous cell harvesting in large-scale bioprocessing. Bioresources and Bioprocessing, 2022, 9, .	4.2	7
156	Acetylated bovine serum albumin differentially inhibits polymerase chain reaction in microdevices. Biomicrofluidics, 2017, 11, 034110.	2.4	6
157	Application of level-set method in simulation of normal and cancer cells deformability within a microfluidic device. Journal of Biomechanics, 2020, 112, 110066.	2.1	6
158	Volume-preserving strategies to improve the mixing efficiency of serpentine micromixers. Journal of Micromechanics and Microengineering, 2020, 30, 115022.	2.6	5
159	Affibody Functionalized Beads for the Highly Sensitive Detection of Cancer Cell-Derived Exosomes. International Journal of Molecular Sciences, 2021, 22, 12014.	4.1	5
160	Application of circulating tumour cells to predict response to treatment in head and neck cancer. Cellular Oncology (Dordrecht), 0, , .	4.4	5
161	The Isolation and Characterization of Circulating Tumor Cells from Head and Neck Cancer Patient Blood Samples Using Spiral Microfluidic Technology. Methods in Molecular Biology, 2019, 2054, 129-136.	0.9	4
162	Advanced bioengineering of male germ stem cells to preserve fertility. Journal of Tissue Engineering, 2021, 12, 204173142110605.	5.5	4

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163	Prognostic value of integrating circulating tumour cells and cell-free DNA in non-small cell lung cancer. <i>Heliyon</i> , 2022, 8, e09971.	3.2	4
164	<i>Giardia</i> purification from fecal samples using rigid spiral inertial microfluidics. <i>Biomicrofluidics</i> , 2022, 16, .	2.4	3
165	Microengineered filters for efficient delivery of nanomaterials into mammalian cells. <i>Scientific Reports</i> , 2022, 12, 4383.	3.3	3
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