

Majid Ebrahimi Warkiani

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

169
papers

5,866
citations

39
h-index

72
g-index

189
ext. papers

7,479
ext. citations

6
avg, IF

6.23
L-index

#	Paper	IF	Citations
169	Decellularized human amniotic membrane reinforced by MoS-Polycaprolactone nanofibers, a novel conductive scaffold for cardiac tissue engineering.. <i>Journal of Biomaterials Applications</i> , 2022 , 8853282211063289	10.6	289
168	Giardia purification from fecal samples using rigid spiral inertial microfluidics. <i>Biomicrofluidics</i> , 2022 , 16, 014105	3.2	1
167	Microfluidic Platforms for Cell Sorting 2022 , 653-695		1
166	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	5.3	0
165	Microengineered filters for efficient delivery of nanomaterials into mammalian cells.. <i>Scientific Reports</i> , 2022 , 12, 4383	4.9	0
164	Advancing Standard Techniques for Treatment of Perianal Fistula; When Tissue Engineering Meets Seton. <i>Health Sciences Review</i> , 2022 , 100026		
163	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	7.1	3
162	Bioreactor-Based Adherent Cells Harvesting from Microcarriers with 3D Printed Inertial Microfluidics. <i>Methods in Molecular Biology</i> , 2021 , 257	1.4	
161	Advanced bioengineering of male germ stem cells to preserve fertility. <i>Journal of Tissue Engineering</i> , 2021 , 12, 20417314211060590	7.5	0
160	Recent Advances in Chronotherapy Targeting Respiratory Diseases.. <i>Pharmaceutics</i> , 2021 , 13,	6.4	1
159	Numerical and Experimental Study of Cross-Sectional Effects on the Mixing Performance of the Spiral Microfluidics.. <i>Micromachines</i> , 2021 , 12,	3.3	2
158	Pirfenidone Reduces Epithelial-Mesenchymal Transition and Spheroid Formation in Breast Carcinoma through Targeting Cancer-Associated Fibroblasts (CAFs). <i>Cancers</i> , 2021 , 13,	6.6	1
157	The role of 3D printing in the fight against COVID-19 outbreak. <i>Journal of 3D Printing in Medicine</i> , 2021 , 5, 51-60	1.5	6
156	Simple-to-Operate Approach for Single Cell Analysis Using a Hydrophobic Surface and Nanosized Droplets. <i>Analytical Chemistry</i> , 2021 , 93, 4584-4592	7.8	5
155	A 3D-printed microfluidic platform for simulating the effects of CPAP on the nasal epithelium. <i>Biofabrication</i> , 2021 ,	10.5	4
154	Intracellular Delivery: A Comprehensive Review on Intracellular Delivery (Adv. Mater. 13/2021). <i>Advanced Materials</i> , 2021 , 33, 2170103	24	1
153	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	5.5	4

152	A microfluidic approach to rapid sperm recovery from heterogeneous cell suspensions. <i>Scientific Reports</i> , 2021 , 11, 7917	4.9	9
151	Enhancing osteoregenerative potential of biphasic calcium phosphates by using bioinspired ZIF8 coating. <i>Materials Science and Engineering C</i> , 2021 , 123, 111972	8.3	2
150	Isolation of Circulating Tumour Cells in Patients With Glioblastoma Using Spiral Microfluidic Technology - A Pilot Study. <i>Frontiers in Oncology</i> , 2021 , 11, 681130	5.3	8
149	Improving capture efficiency of human cancer cell derived exosomes with nanostructured metal organic framework functionalized beads. <i>Applied Materials Today</i> , 2021 , 23, 100994	6.6	5
148	Machine learning reveals mesenchymal breast carcinoma cell adaptation in response to matrix stiffness. <i>PLoS Computational Biology</i> , 2021 , 17, e1009193	5	1
147	Mesenchymal stem cells induce PD-L1 expression through the secretion of CCL5 in breast cancer cells. <i>Journal of Cellular Physiology</i> , 2021 , 236, 3918-3928	7	9
146	A two-step microengineered system for high-density cell retention from bioreactors. <i>Separation and Purification Technology</i> , 2021 , 254, 117610	8.3	4
145	Unidirectional intercellular communication on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , 2021 , 175, 112833	11.8	5
144	Understanding the tumor microenvironment for effective immunotherapy. <i>Medicinal Research Reviews</i> , 2021 , 41, 1474-1498	14.4	32
143	Advances of microfluidic technology in reproductive biology. <i>Life Sciences</i> , 2021 , 265, 118767	6.8	11
142	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	4.9	2
141	Emerging role of circulating tumor cells in immunotherapy. <i>Theranostics</i> , 2021 , 11, 8057-8075	12.1	5
140	A Comprehensive Review on Intracellular Delivery. <i>Advanced Materials</i> , 2021 , 33, e2005363	24	13
139	Miniature auto-perfusion bioreactor system with spiral microfluidic cell retention device. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 1951-1961	4.9	6
138	An easy-to-operate method for single-cell isolation and retrieval using a microfluidic static droplet array. <i>Mikrochimica Acta</i> , 2021 , 188, 242	5.8	2
137	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	5
136	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	2.9	18
135	Effects of sample rheology on the equilibrium position of particles and cells within a spiral microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1	2.8	1

134	The Pandora's box of novel technologies that may revolutionize lung cancer. <i>Lung Cancer</i> , 2021 , 159, 34-41	5.9	3
133	The Effects of COVID-19 on the Placenta During Pregnancy. <i>Frontiers in Immunology</i> , 2021 , 12, 743022	8.4	4
132	COVID-19 spread in a classroom equipped with partition – A CFD approach. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126587	12.8	23
131	Biocatalytic micromixer coated with enzyme-MOF thin film for CO2 conversion to formic acid. <i>Chemical Engineering Journal</i> , 2021 , 426, 130856	14.7	8
130	Inertial Microfluidic Purification of CAR-T-Cell Products. <i>Advanced Biology</i> , 2021 , e2101018		1
129	ZIF-8 Modified Polypropylene Membrane: A Biomimetic Cell Culture Platform with a View to the Improvement of Guided Bone Regeneration. <i>International Journal of Nanomedicine</i> , 2020 , 15, 10029-10043	7.3	12
128	Diagnostic value of serum HER2 levels in breast cancer: a systematic review and meta-analysis. <i>BMC Cancer</i> , 2020 , 20, 1049	4.8	6
127	Application of microfluidic technology in cancer research and therapy. <i>Advances in Clinical Chemistry</i> , 2020 , 99, 193-235	5.8	5
126	Metal-Organic Framework-Enhanced ELISA Platform for Ultrasensitive Detection of PD-L1.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4148-4158	4.1	11
125	Mussel inspired ZIF8 microcarriers: a new approach for large-scale production of stem cells.. <i>RSC Advances</i> , 2020 , 10, 20118-20128	3.7	7
124	3D printing enables the rapid prototyping of modular microfluidic devices for particle conjugation. <i>Applied Materials Today</i> , 2020 , 20, 100726	6.6	18
123	Pirfenidone reduces immune-suppressive capacity of cancer-associated fibroblasts through targeting CCL17 and TNF-beta. <i>Integrative Biology (United Kingdom)</i> , 2020 , 12, 188-197	3.7	15
122	Capillary-assisted microfluidic biosensing platform captures single cell secretion dynamics in nanoliter compartments. <i>Biosensors and Bioelectronics</i> , 2020 , 155, 112113	11.8	11
121	Fabrication of unconventional inertial microfluidic channels using wax 3D printing. <i>Soft Matter</i> , 2020 , 16, 2448-2459	3.6	27
120	Computational inertial microfluidics: a review. <i>Lab on A Chip</i> , 2020 , 20, 1023-1048	7.2	58
119	3D Printing of Inertial Microfluidic Devices. <i>Scientific Reports</i> , 2020 , 10, 5929	4.9	58
118	High-Throughput Particle Concentration Using Complex Cross-Section Microchannels. <i>Micromachines</i> , 2020 , 11,	3.3	9
117	Background-free fibre optic Brillouin probe for remote mapping of micromechanics. <i>Biomedical Optics Express</i> , 2020 , 11, 6687-6698	3.5	6

116	Point of Care Diagnostics in the Age of COVID-19. <i>Diagnostics</i> , 2020 , 11,	3.8	24
115	Culture of circulating tumour cells derived from non-small cell lung cancer.. <i>Journal of Clinical Oncology</i> , 2020 , 38, e21692-e21692	2.2	
114	Volume-preserving strategies to improve the mixing efficiency of serpentine micromixers. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 115022	2	3
113	Promoted chondrogenesis of hMCSs with controlled release of TGF- β via microfluidics synthesized alginate nanogels. <i>Carbohydrate Polymers</i> , 2020 , 229, 115551	10.3	35
112	Biological Diagnosis Based on Microfluidics and Nanotechnology 2020 , 211-238		3
111	PCR-free paper-based nanobiosensing platform for visual detection of telomerase activity via gold enhancement. <i>Microchemical Journal</i> , 2020 , 154, 104594	4.8	6
110	Lung-on-a-chip: the future of respiratory disease models and pharmacological studies. <i>Critical Reviews in Biotechnology</i> , 2020 , 40, 213-230	9.4	51
109	Application of level-set method in simulation of normal and cancer cells deformability within a microfluidic device. <i>Journal of Biomechanics</i> , 2020 , 112, 110066	2.9	1
108	Obstacle-free planar hybrid micromixer with low pressure drop. <i>Microfluidics and Nanofluidics</i> , 2020 , 24, 1	2.8	11
107	Surface modification of polypropylene membrane for the removal of iodine using polydopamine chemistry. <i>Chemosphere</i> , 2020 , 249, 126079	8.4	22
106	culture of circulating tumour cells derived from non-small cell lung cancer. <i>Translational Lung Cancer Research</i> , 2020 , 9, 1795-1809	4.4	12
105	Particle movement and fluid behavior visualization using an optically transparent 3D-printed micro-hydrocyclone. <i>Biomicrofluidics</i> , 2020 , 14, 064106	3.2	4
104	The evolving landscape of predictive biomarkers in immuno-oncology with a focus on spatial technologies. <i>Clinical and Translational Immunology</i> , 2020 , 9, e1215	6.8	9
103	High-Plex and High-Throughput Digital Spatial Profiling of Non-Small-Cell Lung Cancer (NSCLC). <i>Cancers</i> , 2020 , 12,	6.6	11
102	Circulating tumor cell clusters: Insights into tumour dissemination and metastasis. <i>Expert Review of Molecular Diagnostics</i> , 2020 , 20, 1139-1147	3.8	5
101	Emerging Standards and the Hybrid Model for Organizing Scientific Events During and After the COVID-19 Pandemic. <i>Disaster Medicine and Public Health Preparedness</i> , 2020 , 1-6	2.8	14
100	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	3.5	25
99	Back Cover: Biotechnology Journal 5/2019. <i>Biotechnology Journal</i> , 2019 , 14, 1970054	5.6	

98	Electrically conductive nanomaterials for cardiac tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2019 , 144, 162-179	18.5	81
97	Design and applications of MEMS flow sensors: A review. <i>Sensors and Actuators A: Physical</i> , 2019 , 295, 483-502	3.9	120
96	Experimental and numerical study of elasto-inertial focusing in straight channels. <i>Biomicrofluidics</i> , 2019 , 13, 034103	3.2	24
95	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	7.2	35
94	Phenotypic Characterization of Circulating Lung Cancer Cells for Clinically Actionable Targets. <i>Cancers</i> , 2019 , 11,	6.6	25
93	Modulating cancer cell mechanics and actin cytoskeleton structure by chemical and mechanical stimulations. <i>Journal of Biomedical Materials Research - Part A</i> , 2019 , 107, 1569-1581	5.4	6
92	Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800726	6.8	14
91	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	6.2	15
90	Scaled-Up Inertial Microfluidics: Retention System for Microcarrier-Based Suspension Cultures. <i>Biotechnology Journal</i> , 2019 , 14, e1800674	5.6	8
89	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	4.9	23
88	Development of a Biomimetic Semicircular Canal With MEMS Sensors to Restore Balance. <i>IEEE Sensors Journal</i> , 2019 , 19, 11675-11686	4	15
87	Rapid Softlithography Using 3D-Printed Molds. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900425	6.8	27
86	Spermatogenesis induction of spermatogonial stem cells using nanofibrous poly(l-lactic acid)/multi-walled carbon nanotube scaffolds and naringenin. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 3011-3025	3.2	3
85	New insights into the physics of inertial microfluidics in curved microchannels. I. Relaxing the fixed inflection point assumption. <i>Biomicrofluidics</i> , 2019 , 13, 034117	3.2	10
84	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	3.2	6
83	Circulating tumour cell RNA characterisation from colorectal cancer patient blood after inertial microfluidic enrichment. <i>MethodsX</i> , 2019 , 6, 1512-1520	1.9	7
82	Microfluidics: Rapid Softlithography Using 3D-Printed Molds (Adv. Mater. Technol. 10/2019). <i>Advanced Materials Technologies</i> , 2019 , 4, 1970056	6.8	
81	The Isolation and Characterization of Circulating Tumor Cells from Head and Neck Cancer Patient Blood Samples Using Spiral Microfluidic Technology. <i>Methods in Molecular Biology</i> , 2019 , 2054, 129-136	1.4	2

80	Rapid and Label-Free Isolation of Tumour Cells from the Urine of Patients with Localised Prostate Cancer Using Inertial Microfluidics. <i>Cancers</i> , 2019 , 12,	6.6	32
79	A rapidly prototyped lung-on-a-chip model using 3D-printed molds. <i>Organs-on-a-Chip</i> , 2019 , 1, 100001	9.8	34
78	Microfluidics for Porous Systems: Fabrication, Microscopy and Applications. <i>Transport in Porous Media</i> , 2019 , 130, 277-304	3.1	26
77	Simulating Inflammation in a Wound Microenvironment Using a Dermal Wound-on-a-Chip Model. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801307	10.1	29
76	A Reappraisal of Circulating Fetal Cell Noninvasive Prenatal Testing. <i>Trends in Biotechnology</i> , 2019 , 37, 632-644	15.1	16
75	Incorporation of Nanoalumina Improves Mechanical Properties and Osteogenesis of Hydroxyapatite Bioceramics. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1324-1336	5.5	20
74	Inertial particle focusing dynamics in a trapezoidal straight microchannel: application to particle filtration. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	28
73	Microfluidics for Fast and Frugal Diagnosis of Malaria, Sepsis, and HIV/AIDS 2018 , 57-75		1
72	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	8.5	121
71	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	7.2	26
70	A Collective Route to Head and Neck Cancer Metastasis. <i>Scientific Reports</i> , 2018 , 8, 746	4.9	42
69	Selective separation of microalgae cells using inertial microfluidics. <i>Bioresource Technology</i> , 2018 , 252, 91-99	11	53
68	Mist harvesting using bioinspired polydopamine coating and microfabrication technology. <i>Desalination</i> , 2018 , 429, 111-118	10.3	53
67	Melanoma circulating tumor cells: Benefits and challenges required for clinical application. <i>Cancer Letters</i> , 2018 , 424, 1-8	9.9	27
66	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	16
65	Sensitive and Flexible Polymeric Strain Sensor for Accurate Human Motion Monitoring. <i>Sensors</i> , 2018 , 18,	3.8	45
64	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	15.6	68
63	Transparent Surfaces Inspired by Nature. <i>Advanced Optical Materials</i> , 2018 , 6, 1800091	8.1	24

62	The Prognostic Role of Circulating Tumor Cells (CTCs) in Lung Cancer. <i>Frontiers in Oncology</i> , 2018 , 8, 3115-3	65
61	Inertial-Based Filtration Method for Removal of Microcarriers from Mesenchymal Stem Cell Suspensions. <i>Scientific Reports</i> , 2018 , 8, 12481	4.9 18
60	The Use of Microfluidic Technology for Cancer Applications and Liquid Biopsy. <i>Micromachines</i> , 2018 , 9,	3.3 29
59	Isolation of Circulating Fetal Trophoblasts Using Inertial Microfluidics for Noninvasive Prenatal Testing. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800066	6.8 24
58	Static droplet array for culturing single live adherent cells in an isolated chemical microenvironment. <i>Lab on A Chip</i> , 2018 , 18, 2156-2166	7.2 16
57	A hybrid micromixer with planar mixing units.. <i>RSC Advances</i> , 2018 , 8, 33103-33120	3.7 40
56	A Novel Microfluidic Device-Based Neurite Outgrowth Inhibition Assay Reveals the Neurite Outgrowth-Promoting Activity of Tropomyosin Tpm3.1 in Hippocampal Neurons. <i>Cellular and Molecular Neurobiology</i> , 2018 , 38, 1557-1563	4.6 4
55	MEMS piezoresistive flow sensors for sleep apnea therapy. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 577-585	3.9 18
54	Engineering biomimetic hair bundle sensors for underwater sensing applications 2018 ,	7
53	An easily fabricated three-dimensional threaded lemniscate-shaped micromixer for a wide range of flow rates. <i>Biomicrofluidics</i> , 2017 , 11, 014108	3.2 33
52	Enrichment of circulating head and neck tumour cells using spiral microfluidic technology. <i>Scientific Reports</i> , 2017 , 7, 42517	4.9 56
51	Manipulating electrokinetic conductance of nanofluidic channel by varying inlet pH of solution. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8 14
50	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	4 22
49	Acetylated bovine serum albumin differentially inhibits polymerase chain reaction in microdevices. <i>Biomicrofluidics</i> , 2017 , 11, 034110	3.2 2
48	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	7.2 44
47	Advancing Techniques and Insights in Circulating Tumor Cell (CTC) Research. <i>Cancer Drug Discovery and Development</i> , 2017 , 71-94	0.3 1
46	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	9.5 38
45	Characterization of single polyvinylidene fluoride (PVDF) nanofiber for flow sensing applications. <i>AIP Advances</i> , 2017 , 7, 105205	1.5 44

44	An Accurate PSO-GA Based Neural Network to Model Growth of Carbon Nanotubes. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-6	3.2	10
43	Development of a fiber-based membraneless hydrogen peroxide fuel cell. <i>RSC Advances</i> , 2017 , 7, 40755-40760	3.7	14
42	Microfluidic Cell Retention Device for Perfusion of Mammalian Suspension Culture. <i>Scientific Reports</i> , 2017 , 7, 6703	4.9	51
41	Alkaline Surfactant Polymer Flooding: What Happens at the Pore Scale? 2017 ,		8
40	PD-L1 expressing circulating tumour cells in head and neck cancers. <i>BMC Cancer</i> , 2017 , 17, 333	4.8	47
39	Isolation and detection of circulating tumour cells from metastatic melanoma patients using a slanted spiral microfluidic device. <i>Oncotarget</i> , 2017 , 8, 67355-67368	3.3	34
38	Coal-on-a-Chip: Visualizing Flow in Coal Fractures. <i>Energy & Fuels</i> , 2017 , 31, 10393-10403	4.1	20
37	Numerical and experimental study of capillary-driven flow of PCR solution in hybrid hydrophobic microfluidic networks. <i>Biomedical Microdevices</i> , 2016 , 18, 68	3.7	7
36	From Biological Cilia to Artificial Flow Sensors: Biomimetic Soft Polymer Nanosensors with High Sensing Performance. <i>Scientific Reports</i> , 2016 , 6, 32955	4.9	82
35	A rapid co-culture stamping device for studying intercellular communication. <i>Scientific Reports</i> , 2016 , 6, 35618	4.9	9
34	Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. <i>Lab on A Chip</i> , 2016 , 16, 2791-802	7.2	98
33	Microfluidics for research and applications in oncology. <i>Analyst, The</i> , 2016 , 141, 504-24	5	46
32	Ultra-fast, label-free isolation of circulating tumor cells from blood using spiral microfluidics. <i>Nature Protocols</i> , 2016 , 11, 134-48	18.8	338
31	Advances in microfluidics in combating infectious diseases. <i>Biotechnology Advances</i> , 2016 , 34, 404-421	17.8	52
30	Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , 2016 , 16, 10-34	7.2	520
29	Short term ex-vivo expansion of circulating head and neck tumour cells. <i>Oncotarget</i> , 2016 , 7, 60101-60109	3.3	37
28	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, 1534-43	5.4	20
27	Single-cell profiling approaches to probing tumor heterogeneity. <i>International Journal of Cancer</i> , 2016 , 139, 243-55	7.5	42

26	Engineering a 3D microfluidic culture platform for tumor-treating field application. <i>Scientific Reports</i> , 2016 , 6, 26584	4.9	57
25	A microfluidic framework for studying relative permeability in coal. <i>International Journal of Coal Geology</i> , 2016 , 159, 183-193	5.5	56
24	Characterizing terahertz channels for monitoring human lungs with wireless nanosensor networks. <i>Nano Communication Networks</i> , 2016 , 9, 43-57	2.9	9
23	Membrane-less microfiltration using inertial microfluidics. <i>Scientific Reports</i> , 2015 , 5, 11018	4.9	104
22	Large-Volume Microfluidic Cell Sorting for Biomedical Applications. <i>Annual Review of Biomedical Engineering</i> , 2015 , 17, 1-34	12	76
21	Investigation of membrane fouling at the microscale using isopore filters. <i>Microfluidics and Nanofluidics</i> , 2015 , 19, 307-315	2.8	14
20	Flow-induced stress on adherent cells in microfluidic devices. <i>Lab on A Chip</i> , 2015 , 15, 4114-27	7.2	86
19	Malaria detection using inertial microfluidics. <i>Lab on A Chip</i> , 2015 , 15, 1101-9	7.2	85
18	Jetting microfluidics with size-sorting capability for single-cell protease detection. <i>Biosensors and Bioelectronics</i> , 2015 , 66, 19-23	11.8	73
17	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	4.1	82
16	Reliability analysis of time-varying wireless nanoscale sensor networks 2015 ,		5
15	Short-term expansion of breast circulating cancer cells predicts response to anti-cancer therapy. <i>Oncotarget</i> , 2015 , 6, 15578-93	3.3	103
14	Design and Analysis of a Wireless Nanosensor Network for Monitoring Human Lung Cells 2015 ,		12
13	An ultra-high-throughput spiral microfluidic biochip for the enrichment of circulating tumor cells. <i>Analyst, The</i> , 2014 , 139, 3245-55	5	146
12	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	3.7	139
11	Slanted spiral microfluidics for the ultra-fast, label-free isolation of circulating tumor cells. <i>Lab on A Chip</i> , 2014 , 14, 128-37	7.2	385
10	Isoporous micro/nanoengineered membranes. <i>ACS Nano</i> , 2013 , 7, 1882-904	16.7	123
9	Isolation and retrieval of circulating tumor cells using centrifugal forces. <i>Scientific Reports</i> , 2013 , 3, 12594.9		523

8	A high-flux isopore micro-fabricated membrane for effective concentration and recovering of waterborne pathogens. <i>Biomedical Microdevices</i> , 2012 , 14, 669-77	3.7	26
7	Surface Modification of Micro/Nano-Fabricated Filters. <i>Key Engineering Materials</i> , 2012 , 508, 87-98	0.4	1
6	Capturing and recovering of <i>Cryptosporidium parvum</i> oocysts with polymeric micro-fabricated filter. <i>Journal of Membrane Science</i> , 2011 , 369, 560-568	9.6	19
5	Fabrication of multi-layer polymeric micro-sieve having narrow slot pores with conventional ultraviolet-lithography and micro-fabrication techniques. <i>Biomicrofluidics</i> , 2011 , 5, 36504-365049	3.2	21
4	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	17
3	Polymeric micro-filter manufactured by a dissolving mold technique. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 075005	2	15
2	IFI27 transcription is an early predictor for COVID-19 outcomes; a multi-cohort observational study		2
1	High-Plex and High-throughput Digital Spatial Profiling of non-small-cell lung cancer (NSCLC)		1