

# Majid Ebrahimi Warkiani

## List of Publications by Citations

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169  
papers

5,866  
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39  
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g-index

189  
ext. papers

7,479  
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avg, IF

6.23  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 169 | Isolation and retrieval of circulating tumor cells using centrifugal forces. <i>Scientific Reports</i> , <b>2013</b> , 3, 12594.9   | 4.9  | 523       |
| 168 | Fundamentals and applications of inertial microfluidics: a review. <i>Lab on A Chip</i> , <b>2016</b> , 16, 10-34   | 7.2  | 520       |
| 167 | Slanted spiral microfluidics for the ultra-fast, label-free isolation of circulating tumor cells. <i>Lab on A Chip</i> , <b>2014</b> , 14, 128-37   | 7.2  | 385       |
| 166 | Ultra-fast, label-free isolation of circulating tumor cells from blood using spiral microfluidics. <i>Nature Protocols</i> , <b>2016</b> , 11, 134-48   | 18.8 | 338       |
| 165 | An ultra-high-throughput spiral microfluidic biochip for the enrichment of circulating tumor cells. <i>Analyst, The</i> , <b>2014</b> , 139, 3245-55  | 5    | 146       |
| 164 | Clinical validation of an ultra high-throughput spiral microfluidics for the detection and enrichment of viable circulating tumor cells. <i>PLoS ONE</i> , <b>2014</b> , 9, e99409                  | 3.7  | 139       |
| 163 | Isoporous micro/nanoengineered membranes. <i>ACS Nano</i> , <b>2013</b> , 7, 1882-904   | 16.7 | 123       |
| 162 | Spheroids-on-a-chip: Recent advances and design considerations in microfluidic platforms for spheroid formation and culture. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 263, 151-176  | 8.5  | 121       |
| 161 | Design and applications of MEMS flow sensors: A review. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 295, 483-502   | 3.9  | 120       |
| 160 | Membrane-less microfiltration using inertial microfluidics. <i>Scientific Reports</i> , <b>2015</b> , 5, 11018  | 4.9  | 104       |
| 159 | Short-term expansion of breast circulating cancer cells predicts response to anti-cancer therapy. <i>Oncotarget</i> , <b>2015</b> , 6, 15578-93   | 3.3  | 103       |
| 158 | Multiplexing slanted spiral microchannels for ultra-fast blood plasma separation. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2791-802   | 7.2  | 98        |
| 157 | Flow-induced stress on adherent cells in microfluidic devices. <i>Lab on A Chip</i> , <b>2015</b> , 15, 4114-27   | 7.2  | 86        |
| 156 | Malaria detection using inertial microfluidics. <i>Lab on A Chip</i> , <b>2015</b> , 15, 1101-9   | 7.2  | 85        |
| 155 | From Biological Cilia to Artificial Flow Sensors: Biomimetic Soft Polymer Nanosensors with High Sensing Performance. <i>Scientific Reports</i> , <b>2016</b> , 6, 32955                             | 4.9  | 82        |
| 154 | Artificial fish skin of self-powered micro-electromechanical systems hair cells for sensing hydrodynamic flow phenomena. <i>Journal of the Royal Society Interface</i> , <b>2015</b> , 12, 20150322 | 4.1  | 82        |
| 153 | Electrically conductive nanomaterials for cardiac tissue engineering. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 144, 162-179  | 18.5 | 81        |

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| 152 | Large-Volume Microfluidic Cell Sorting for Biomedical Applications. <i>Annual Review of Biomedical Engineering</i> , <b>2015</b> , 17, 1-34  | 12   | 76 |
| 151 | Jetting microfluidics with size-sorting capability for single-cell protease detection. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 66, 19-23  | 11.8 | 73 |
| 150 | Large-scale production of stem cells utilizing microcarriers: A biomaterials engineering perspective from academic research to commercialized products. <i>Biomaterials</i> , <b>2018</b> , 181, 333-346 | 15.6 | 68 |
| 149 | The Prognostic Role of Circulating Tumor Cells (CTCs) in Lung Cancer. <i>Frontiers in Oncology</i> , <b>2018</b> , 8, 3115-3   | 5.3  | 65 |
| 148 | Computational inertial microfluidics: a review. <i>Lab on A Chip</i> , <b>2020</b> , 20, 1023-1048   | 7.2  | 58 |
| 147 | 3D Printing of Inertial Microfluidic Devices. <i>Scientific Reports</i> , <b>2020</b> , 10, 5929   | 4.9  | 58 |
| 146 | Engineering a 3D microfluidic culture platform for tumor-treating field application. <i>Scientific Reports</i> , <b>2016</b> , 6, 26584  | 4.9  | 57 |
| 145 | Enrichment of circulating head and neck tumour cells using spiral microfluidic technology. <i>Scientific Reports</i> , <b>2017</b> , 7, 42517  | 4.9  | 56 |
| 144 | A microfluidic framework for studying relative permeability in coal. <i>International Journal of Coal Geology</i> , <b>2016</b> , 159, 183-193   | 5.5  | 56 |
| 143 | Selective separation of microalgae cells using inertial microfluidics. <i>Bioresource Technology</i> , <b>2018</b> , 252, 91-99  | 11   | 53 |
| 142 | Mist harvesting using bioinspired polydopamine coating and microfabrication technology. <i>Desalination</i> , <b>2018</b> , 429, 111-118   | 10.3 | 53 |
| 141 | Advances in microfluidics in combating infectious diseases. <i>Biotechnology Advances</i> , <b>2016</b> , 34, 404-421  | 17.8 | 52 |
| 140 | Microfluidic Cell Retention Device for Perfusion of Mammalian Suspension Culture. <i>Scientific Reports</i> , <b>2017</b> , 7, 6703  | 4.9  | 51 |
| 139 | Lung-on-a-chip: the future of respiratory disease models and pharmacological studies. <i>Critical Reviews in Biotechnology</i> , <b>2020</b> , 40, 213-230   | 9.4  | 51 |
| 138 | PD-L1 expressing circulating tumour cells in head and neck cancers. <i>BMC Cancer</i> , <b>2017</b> , 17, 333  | 4.8  | 47 |
| 137 | Microfluidics for research and applications in oncology. <i>Analyst, The</i> , <b>2016</b> , 141, 504-24   | 5    | 46 |
| 136 | Sensitive and Flexible Polymeric Strain Sensor for Accurate Human Motion Monitoring. <i>Sensors</i> , <b>2018</b> , 18,  | 3.8  | 45 |
| 135 | A 3D-printed mini-hydrocyclone for high throughput particle separation: application to primary harvesting of microalgae. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2459-2469                              | 7.2  | 44 |

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|-----|---|------|----|
| 134 | Characterization of single polyvinylidene fluoride (PVDF) nanofiber for flow sensing applications. <i>AIP Advances</i> , <b>2017</b> , 7, 105205  | 1.5  | 44 |
| 133 | A Collective Route to Head and Neck Cancer Metastasis. <i>Scientific Reports</i> , <b>2018</b> , 8, 746   | 4.9  | 42 |
| 132 | Single-cell profiling approaches to probing tumor heterogeneity. <i>International Journal of Cancer</i> , <b>2016</b> , 139, 243-55   | 7.5  | 42 |
| 131 | A hybrid micromixer with planar mixing units.. <i>RSC Advances</i> , <b>2018</b> , 8, 33103-33120   | 3.7  | 40 |
| 130 | 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 &amp; Interfaces</i> , <b>2017</b> , 9, 38076-38080 | 9.5  | 38 |
| 129 | Short term ex-vivo expansion of circulating head and neck tumour cells. <i>Oncotarget</i> , <b>2016</b> , 7, 60101-60109  | 9.3  | 37 |
| 128 | Rapid separation and identification of beer spoilage bacteria by inertial microfluidics and MALDI-TOF mass spectrometry. <i>Lab on A Chip</i> , <b>2019</b> , 19, 1961-1970   | 7.2  | 35 |
| 127 | Promoted chondrogenesis of hMCSs with controlled release of TGF- $\beta$ via microfluidics synthesized alginate nanogels. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115551  | 10.3 | 35 |
| 126 | Isolation and detection of circulating tumour cells from metastatic melanoma patients using a slanted spiral microfluidic device. <i>Oncotarget</i> , <b>2017</b> , 8, 67355-67368  | 3.3  | 34 |
| 125 | A rapidly prototyped lung-on-a-chip model using 3D-printed molds. <i>Organs-on-a-Chip</i> , <b>2019</b> , 1, 100001   | 9.8  | 34 |
| 124 | An easily fabricated three-dimensional threaded lemniscate-shaped micromixer for a wide range of flow rates. <i>Biomicrofluidics</i> , <b>2017</b> , 11, 014108   | 3.2  | 33 |
| 123 | Rapid and Label-Free Isolation of Tumour Cells from the Urine of Patients with Localised Prostate Cancer Using Inertial Microfluidics. <i>Cancers</i> , <b>2019</b> , 12,   | 6.6  | 32 |
| 122 | Understanding the tumor microenvironment for effective immunotherapy. <i>Medicinal Research Reviews</i> , <b>2021</b> , 41, 1474-1498   | 14.4 | 32 |
| 121 | The Use of Microfluidic Technology for Cancer Applications and Liquid Biopsy. <i>Micromachines</i> , <b>2018</b> , 9,   | 3.3  | 29 |
| 120 | Simulating Inflammation in a Wound Microenvironment Using a Dermal Wound-on-a-Chip Model. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801307  | 10.1 | 29 |
| 119 | Inertial particle focusing dynamics in a trapezoidal straight microchannel: application to particle filtration. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1   | 2.8  | 28 |
| 118 | Fabrication of unconventional inertial microfluidic channels using wax 3D printing. <i>Soft Matter</i> , <b>2020</b> , 16, 2448-2459  | 3.6  | 27 |
| 117 | Melanoma circulating tumor cells: Benefits and challenges required for clinical application. <i>Cancer Letters</i> , <b>2018</b> , 424, 1-8   | 9.9  | 27 |

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|-----|---|------|----|
| 116 | Rapid Softlithography Using 3D-Printed Molds. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900425   | 6.8  | 27 |
| 115 | High-throughput sorting of eggs for synchronization of <i>C. elegans</i> in a microfluidic spiral chip. <i>Lab on A Chip</i> , <b>2018</b> , 18, 679-687  | 7.2  | 26 |
| 114 | A high-flux isopore micro-fabricated membrane for effective concentration and recovering of waterborne pathogens. <i>Biomedical Microdevices</i> , <b>2012</b> , 14, 669-77   | 3.7  | 26 |
| 113 | Microfluidics for Porous Systems: Fabrication, Microscopy and Applications. <i>Transport in Porous Media</i> , <b>2019</b> , 130, 277-304   | 3.1  | 26 |
| 112 | Phenotypic Characterization of Circulating Lung Cancer Cells for Clinically Actionable Targets. <i>Cancers</i> , <b>2019</b> , 11,  | 6.6  | 25 |
| 111 | A miniaturized piezoresistive flow sensor for real-time monitoring of intravenous infusion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 568-576  | 3.5  | 25 |
| 110 | Experimental and numerical study of elasto-inertial focusing in straight channels. <i>Biomicrofluidics</i> , <b>2019</b> , 13, 034103   | 3.2  | 24 |
| 109 | Transparent Surfaces Inspired by Nature. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800091   | 8.1  | 24 |
| 108 | Isolation of Circulating Fetal Trophoblasts Using Inertial Microfluidics for Noninvasive Prenatal Testing. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800066  | 6.8  | 24 |
| 107 | Point of Care Diagnostics in the Age of COVID-19. <i>Diagnostics</i> , <b>2020</b> , 11,  | 3.8  | 24 |
| 106 | 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> , <b>2019</b> , 1866, 118526 | 4.9  | 23 |
| 105 | COVID-19 spread in a classroom equipped with partition: A CFD approach. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126587   | 12.8 | 23 |
| 104 | Strategically Designing a Pumpless Microfluidic Device on an "Inert" Polypropylene Substrate with Potential Application in Biosensing and Diagnostics. <i>Langmuir</i> , <b>2017</b> , 33, 5565-5576  | 4    | 22 |
| 103 | Surface modification of polypropylene membrane for the removal of iodine using polydopamine chemistry. <i>Chemosphere</i> , <b>2020</b> , 249, 126079   | 8.4  | 22 |
| 102 | Fabrication of multi-layer polymeric micro-sieve having narrow slot pores with conventional ultraviolet-lithography and micro-fabrication techniques. <i>Biomicrofluidics</i> , <b>2011</b> , 5, 36504-365049   | 3.2  | 21 |
| 101 | Incorporation of Nanoalumina Improves Mechanical Properties and Osteogenesis of Hydroxyapatite Bioceramics. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 1324-1336  | 5.5  | 20 |
| 100 | Coal-on-a-Chip: Visualizing Flow in Coal Fractures. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 10393-10403   | 4.1  | 20 |
| 99  | A hybrid microfluidic system for regulation of neural differentiation in induced pluripotent stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 1534-43  | 5.4  | 20 |

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|----|---|------|----|
| 98 | Capturing and recovering of <i>Cryptosporidium parvum</i> oocysts with polymeric micro-fabricated filter. <i>Journal of Membrane Science</i> , <b>2011</b> , 369, 560-568   | 9.6  | 19 |
| 97 | 3D printing enables the rapid prototyping of modular microfluidic devices for particle conjugation. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100726   | 6.6  | 18 |
| 96 | Inertial-Based Filtration Method for Removal of Microcarriers from Mesenchymal Stem Cell Suspensions. <i>Scientific Reports</i> , <b>2018</b> , 8, 12481  | 4.9  | 18 |
| 95 | MEMS piezoresistive flow sensors for sleep apnea therapy. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 279, 577-585   | 3.9  | 18 |
| 94 | The role of vitamin D in the age of COVID-19: A systematic review and meta-analysis. <i>International Journal of Clinical Practice</i> , <b>2021</b> , 75, e14675   | 2.9  | 18 |
| 93 | Fabrication and characterization of a microporous polymeric micro-filter for isolation of <i>Cryptosporidium parvum</i> oocysts. <i>Journal of Micromechanics and Microengineering</i> , <b>2011</b> , 21, 035002                               | 2    | 17 |
| 92 | 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> , <b>2018</b> , 67, 905-912 | 3    | 16 |
| 91 | Static droplet array for culturing single live adherent cells in an isolated chemical microenvironment. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2156-2166  | 7.2  | 16 |
| 90 | A Reappraisal of Circulating Fetal Cell Noninvasive Prenatal Testing. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 632-644  | 15.1 | 16 |
| 89 | A simple coating method of PDMS microchip with PTFE for synthesis of dexamethasone-encapsulated PLGA nanoparticles. <i>Drug Delivery and Translational Research</i> , <b>2019</b> , 9, 707-720  | 6.2  | 15 |
| 88 | Pirfenidone reduces immune-suppressive capacity of cancer-associated fibroblasts through targeting CCL17 and TNF-beta. <i>Integrative Biology (United Kingdom)</i> , <b>2020</b> , 12, 188-197  | 3.7  | 15 |
| 87 | Development of a Biomimetic Semicircular Canal With MEMS Sensors to Restore Balance. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 11675-11686  | 4    | 15 |
| 86 | Polymeric micro-filter manufactured by a dissolving mold technique. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 075005  | 2    | 15 |
| 85 | Manipulating electrokinetic conductance of nanofluidic channel by varying inlet pH of solution. <i>Microfluidics and Nanofluidics</i> , <b>2017</b> , 21, 1   | 2.8  | 14 |
| 84 | Validation of a Vasculogenesis Microfluidic Model for Radiobiological Studies of the Human Microvasculature. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1800726  | 6.8  | 14 |
| 83 | Investigation of membrane fouling at the microscale using isopore filters. <i>Microfluidics and Nanofluidics</i> , <b>2015</b> , 19, 307-315  | 2.8  | 14 |
| 82 | Development of a fiber-based membraneless hydrogen peroxide fuel cell. <i>RSC Advances</i> , <b>2017</b> , 7, 40755-40760   | 3.9  | 14 |
| 81 | 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> , <b>2020</b> , 1-6  | 2.8  | 14 |

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|----|--|------|----|
| 80 | A Comprehensive Review on Intracellular Delivery. <i>Advanced Materials</i> , <b>2021</b> , 33, e2005363   | 24   | 13 |
| 79 | 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> , <b>2020</b> , 15, 10029-10043 | 7.3  | 12 |
| 78 | Design and Analysis of a Wireless Nanosensor Network for Monitoring Human Lung Cells <b>2015</b> ,   |      | 12 |
| 77 | culture of circulating tumour cells derived from non-small cell lung cancer. <i>Translational Lung Cancer Research</i> , <b>2020</b> , 9, 1795-1809  | 4.4  | 12 |
| 76 | Metal-Organic Framework-Enhanced ELISA Platform for Ultrasensitive Detection of PD-L1.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 4148-4158  | 4.1  | 11 |
| 75 | Capillary-assisted microfluidic biosensing platform captures single cell secretion dynamics in nanoliter compartments. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 155, 112113                            | 11.8 | 11 |
| 74 | Obstacle-free planar hybrid micromixer with low pressure drop. <i>Microfluidics and Nanofluidics</i> , <b>2020</b> , 24, 1   | 2.8  | 11 |
| 73 | High-Plex and High-Throughput Digital Spatial Profiling of Non-Small-Cell Lung Cancer (NSCLC). <i>Cancers</i> , <b>2020</b> , 12,  | 6.6  | 11 |
| 72 | Advances of microfluidic technology in reproductive biology. <i>Life Sciences</i> , <b>2021</b> , 265, 118767  | 6.8  | 11 |
| 71 | An Accurate PSO-GA Based Neural Network to Model Growth of Carbon Nanotubes. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-6   | 3.2  | 10 |
| 70 | New insights into the physics of inertial microfluidics in curved microchannels. I. Relaxing the fixed inflection point assumption. <i>Biomicrofluidics</i> , <b>2019</b> , 13, 034117                             | 3.2  | 10 |
| 69 | High-Throughput Particle Concentration Using Complex Cross-Section Microchannels. <i>Micromachines</i> , <b>2020</b> , 11,   | 3.3  | 9  |
| 68 | A rapid co-culture stamping device for studying intercellular communication. <i>Scientific Reports</i> , <b>2016</b> , 6, 35618  | 4.9  | 9  |
| 67 | The evolving landscape of predictive biomarkers in immuno-oncology with a focus on spatial technologies. <i>Clinical and Translational Immunology</i> , <b>2020</b> , 9, e1215                                     | 6.8  | 9  |
| 66 | A microfluidic approach to rapid sperm recovery from heterogeneous cell suspensions. <i>Scientific Reports</i> , <b>2021</b> , 11, 7917  | 4.9  | 9  |
| 65 | Characterizing terahertz channels for monitoring human lungs with wireless nanosensor networks. <i>Nano Communication Networks</i> , <b>2016</b> , 9, 43-57  | 2.9  | 9  |
| 64 | Mesenchymal stem cells induce PD-L1 expression through the secretion of CCL5 in breast cancer cells. <i>Journal of Cellular Physiology</i> , <b>2021</b> , 236, 3918-3928  | 7    | 9  |
| 63 | Scaled-Up Inertial Microfluidics: Retention System for Microcarrier-Based Suspension Cultures. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800674   | 5.6  | 8  |

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|----|---|------|---|
| 62 | Alkaline Surfactant Polymer Flooding: What Happens at the Pore Scale? <b>2017</b> ,   |      | 8 |
| 61 | Isolation of Circulating Tumour Cells in Patients With Glioblastoma Using Spiral Microfluidic Technology - A Pilot Study. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 681130                     | 5.3  | 8 |
| 60 | Biocatalytic micromixer coated with enzyme-MOF thin film for CO <sub>2</sub> conversion to formic acid. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 130856                               | 14.7 | 8 |
| 59 | Mussel inspired ZIF8 microcarriers: a new approach for large-scale production of stem cells.. <i>RSC Advances</i> , <b>2020</b> , 10, 20118-20128   | 3.7  | 7 |
| 58 | Numerical and experimental study of capillary-driven flow of PCR solution in hybrid hydrophobic microfluidic networks. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 68                          | 3.7  | 7 |
| 57 | Circulating tumour cell RNA characterisation from colorectal cancer patient blood after inertial microfluidic enrichment. <i>MethodsX</i> , <b>2019</b> , 6, 1512-1520                                | 1.9  | 7 |
| 56 | Engineering biomimetic hair bundle sensors for underwater sensing applications <b>2018</b> ,  |      | 7 |
| 55 | Modulating cancer cell mechanics and actin cytoskeleton structure by chemical and mechanical stimulations. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2019</b> , 107, 1569-1581    | 5.4  | 6 |
| 54 | Diagnostic value of serum HER2 levels in breast cancer: a systematic review and meta-analysis. <i>BMC Cancer</i> , <b>2020</b> , 20, 1049   | 4.8  | 6 |
| 53 | New insights into the physics of inertial microfluidics in curved microchannels. II. Adding an additive rule to understand complex cross-sections. <i>Biomicrofluidics</i> , <b>2019</b> , 13, 034118 | 3.2  | 6 |
| 52 | Background-free fibre optic Brillouin probe for remote mapping of micromechanics. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 6687-6698  | 3.5  | 6 |
| 51 | PCR-free paper-based nanobiosensing platform for visual detection of telomerase activity via gold enhancement. <i>Microchemical Journal</i> , <b>2020</b> , 154, 104594                               | 4.8  | 6 |
| 50 | The role of 3D printing in the fight against COVID-19 outbreak. <i>Journal of 3D Printing in Medicine</i> , <b>2021</b> , 5, 51-60  | 1.5  | 6 |
| 49 | Miniature auto-perfusion bioreactor system with spiral microfluidic cell retention device. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 1951-1961                                     | 4.9  | 6 |
| 48 | Application of microfluidic technology in cancer research and therapy. <i>Advances in Clinical Chemistry</i> , <b>2020</b> , 99, 193-235  | 5.8  | 5 |
| 47 | Reliability analysis of time-varying wireless nanoscale sensor networks <b>2015</b> ,   |      | 5 |
| 46 | Circulating tumor cell clusters: Insights into tumour dissemination and metastasis. <i>Expert Review of Molecular Diagnostics</i> , <b>2020</b> , 20, 1139-1147                                       | 3.8  | 5 |
| 45 | Simple-to-Operate Approach for Single Cell Analysis Using a Hydrophobic Surface and Nanosized Droplets. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4584-4592                                     | 7.8  | 5 |



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| 44 | Improving capture efficiency of human cancer cell derived exosomes with nanostructured metal organic framework functionalized beads. <i>Applied Materials Today</i> , <b>2021</b> , 23, 100994  | 6.6  | 5 |
| 43 | Unidirectional intercellular communication on a microfluidic chip. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 175, 112833   | 11.8 | 5 |
| 42 | Emerging role of circulating tumor cells in immunotherapy. <i>Theranostics</i> , <b>2021</b> , 11, 8057-8075  | 12.1 | 5 |
| 41 | An Efficient Graphene Quantum Dots-Based Electrochemical Cytosensor for the Sensitive Recognition of CD123 in Acute Myeloid Leukemia Cells. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 16451-16463                                       | 4    | 5 |
| 40 | Particle movement and fluid behavior visualization using an optically transparent 3D-printed micro-hydrocyclone. <i>Biomicrofluidics</i> , <b>2020</b> , 14, 064106   | 3.2  | 4 |
| 39 | A 3D-printed microfluidic platform for simulating the effects of CPAP on the nasal epithelium. <i>Biofabrication</i> , <b>2021</b> ,  | 10.5 | 4 |
| 38 | 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> , <b>2021</b> , 168, 490-498                           | 5.5  | 4 |
| 37 | A two-step microengineered system for high-density cell retention from bioreactors. <i>Separation and Purification Technology</i> , <b>2021</b> , 254, 117610   | 8.3  | 4 |
| 36 | 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> , <b>2018</b> , 38, 1557-1563  | 4.6  | 4 |
| 35 | The Effects of COVID-19 on the Placenta During Pregnancy. <i>Frontiers in Immunology</i> , <b>2021</b> , 12, 743022   | 8.4  | 4 |
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