List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Isolation of rare circulating tumour cells in cancer patients by microchip technology. Nature, 2007, 450, 1235-1239.	27.8	3,272
2	Circulating Breast Tumor Cells Exhibit Dynamic Changes in Epithelial and Mesenchymal Composition. Science, 2013, 339, 580-584.	12.6	2,137
3	Circulating Tumor Cell Clusters Are Oligoclonal Precursors of Breast Cancer Metastasis. Cell, 2014, 158, 1110-1122.	28.9	1,960
4	Detection of Mutations in <i>EGFR</i> in Circulating Lung-Cancer Cells. New England Journal of Medicine, 2008, 359, 366-377.	27.0	1,602
5	Isolation of circulating tumor cells using a microvortex-generating herringbone-chip. Proceedings of the United States of America, 2010, 107, 18392-18397.	7.1	1,454
6	Continuous inertial focusing, ordering, and separation of particles in microchannels. Proceedings of the United States of America, 2007, 104, 18892-18897.	7.1	1,408
7	Circulating tumor cells: approaches to isolation and characterization. Journal of Cell Biology, 2011, 192, 373-382.	5.2	971
8	Inertial Focusing for Tumor Antigen–Dependent and –Independent Sorting of Rare Circulating Tumor Cells. Science Translational Medicine, 2013, 5, 179ra47.	12.4	910
9	Ex vivo culture of circulating breast tumor cells for individualized testing of drug susceptibility. Science, 2014, 345, 216-220.	12.6	808
10	Microfluidic, marker-free isolation of circulating tumor cells from blood samples. Nature Protocols, 2014, 9, 694-710.	12.0	634
11	A microfluidic device for label-free, physical capture of circulating tumor cell clusters. Nature Methods, 2015, 12, 685-691.	19.0	628
12	RNA-Seq of single prostate CTCs implicates noncanonical Wnt signaling in antiandrogen resistance. Science, 2015, 349, 1351-1356.	12.6	614
13	Blood-on-a-Chip. Annual Review of Biomedical Engineering, 2005, 7, 77-103.	12.3	579
14	Microengineering of Cellular Interactions. Annual Review of Biomedical Engineering, 2000, 2, 227-256.	12.3	565
15	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. Journal of Biomedical Materials Research Part B, 1997, 34, 189-199.	3.1	496
16	Intracellular trehalose improves the survival of cryopreserved mammalian cells. Nature Biotechnology, 2000, 18, 163-167.	17.5	475
17	Isolation and Characterization of Circulating Tumor Cells from Patients with Localized and Metastatic Prostate Cancer. Science Translational Medicine, 2010, 2, 25ra23.	12.4	474
18	Single-Cell RNA Sequencing Identifies Extracellular Matrix Gene Expression by Pancreatic Circulating Tumor Cells, Cell Reports, 2014, 8, 1905-1918,	6.4	449

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19	Controlled encapsulation of single-cells into monodisperse picolitre drops. Lab on A Chip, 2008, 8, 1262.	6.0	444
20	Particle Segregation and Dynamics in Confined Flows. Physical Review Letters, 2009, 102, 094503.	7.8	431
21	Inertial Focusing in Microfluidics. Annual Review of Biomedical Engineering, 2014, 16, 371-396.	12.3	419
22	Effect of extracellular matrix topology on cell structure, function, and physiological responsiveness: hepatocytes cultured in a sandwich configuration. FASEB Journal, 1996, 10, 1471-1484.	0.5	387
23	The promise of organ and tissue preservation to transform medicine. Nature Biotechnology, 2017, 35, 530-542.	17.5	371
24	Clusters of circulating tumor cells traverse capillary-sized vessels. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4947-4952.	7.1	364
25	LEA Proteins During Water Stress: Not Just for Plants Anymore. Annual Review of Physiology, 2011, 73, 115-134.	13.1	359
26	Malaria-Infected Erythrocyte-Derived Microvesicles Mediate Cellular Communication within the Parasite Population and with the Host Immune System. Cell Host and Microbe, 2013, 13, 521-534.	11.0	356
27	Equilibrium Separation and Filtration of Particles Using Differential Inertial Focusing. Analytical Chemistry, 2008, 80, 2204-2211.	6.5	354
28	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. Nature Nanotechnology, 2014, 9, 969-980.	31.5	349
29	HER2 expression identifies dynamic functional states within circulating breast cancer cells. Nature, 2016, 537, 102-106.	27.8	335
30	Detection of T790M, the Acquired Resistance <i>EGFR</i> Mutation, by Tumor Biopsy versus Noninvasive Blood-Based Analyses. Clinical Cancer Research, 2016, 22, 1103-1110.	7.0	326
31	A Microfabrication-Based Dynamic Array Cytometer. Analytical Chemistry, 2002, 74, 3984-3990.	6.5	314
32	A microfluidic device for practical label-free CD4+ T cell counting of HIV-infected subjects. Lab on A Chip, 2007, 7, 170-178.	6.0	312
33	Effects of oxygenation and flow on the viability and function of rat hepatocytes cocultured in a microchannel flat-plate bioreactor. Biotechnology and Bioengineering, 2001, 73, 379-389.	3.3	304
34	Androgen Receptor Signaling in Circulating Tumor Cells as a Marker of Hormonally Responsive Prostate Cancer. Cancer Discovery, 2012, 2, 995-1003.	9.4	257
35	Cellular Micropatterns on Biocompatible Materials. Biotechnology Progress, 1998, 14, 388-392.	2.6	251
36	Engineered nanointerfaces for microfluidic isolation and molecular profiling of tumor-specific extracellular vesicles. Nature Communications, 2018, 9, 175.	12.8	248

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37	Surface Engineering with Poly(ethylene glycol) Photolithography to Create High-Density Cell Arrays on Glass. Langmuir, 2003, 19, 9855-9862.	3.5	244
38	En Route to Metastasis: Circulating Tumor Cell Clusters and Epithelial-to-Mesenchymal Transition. Trends in Cancer, 2015, 1, 44-52.	7.4	218
39	Deregulation of ribosomal protein expression and translation promotes breast cancer metastasis. Science, 2020, 367, 1468-1473.	12.6	214
40	Brain Tumor Cells in Circulation Are Enriched for Mesenchymal Gene Expression. Cancer Discovery, 2014, 4, 1299-1309.	9.4	207
41	Literature Review: Supplemented Phase Diagram of the Trehalose–Water Binary Mixture. Cryobiology, 2000, 40, 277-282.	0.7	203
42	Particle Focusing in Staged Inertial Microfluidic Devices for Flow Cytometry. Analytical Chemistry, 2010, 82, 3862-3867.	6.5	202
43	A high-throughput microfluidic real-time gene expression living cell array. Lab on A Chip, 2007, 7, 77-85.	6.0	200
44	Beneficial effect of microinjected trehalose on the cryosurvival of human oocytes. Fertility and Sterility, 2002, 77, 152-158.	1.0	196
45	Inertial focusing dynamics in spiral microchannels. Physics of Fluids, 2012, 24, 32001.	4.0	183
46	Inertio-elastic focusing of bioparticles in microchannels at high throughput. Nature Communications, 2014, 5, 4120.	12.8	173
47	Collective and individual migration following the epithelial–mesenchymal transition. Nature Materials, 2014, 13, 1063-1071.	27.5	169
48	Clinical microfluidics for neutrophil genomics and proteomics. Nature Medicine, 2010, 16, 1042-1047.	30.7	168
49	Particle Focusing in Curved Microfluidic Channels. Scientific Reports, 2013, 3, .	3.3	161
50	Development of a microfabricated cytometry platform for characterization and sorting of individual leukocytes. Lab on A Chip, 2005, 5, 30.	6.0	158
51	Microfluidic Isolation of Circulating Tumor Cell Clusters by Size and Asymmetry. Scientific Reports, 2017, 7, 2433.	3.3	158
52	Genomic and Functional Fidelity of Small Cell Lung Cancer Patient-Derived Xenografts. Cancer Discovery, 2018, 8, 600-615.	9.4	157
53	Supercooling enables long-term transplantation survival following 4 days of liver preservation. Nature Medicine, 2014, 20, 790-793.	30.7	153
54	Differential inertial focusing of particles in curved low-aspect-ratio microchannels. New Journal of Physics, 2009, 11, 075025.	2.9	152

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55	Tunable Nanostructured Coating for the Capture and Selective Release of Viable Circulating Tumor Cells. Advanced Materials, 2015, 27, 1593-1599.	21.0	144
56	Effect of Flow and Surface Conditions on Human Lymphocyte Isolation Using Microfluidic Chambers. Langmuir, 2004, 20, 11649-11655.	3.5	140
57	Cell detection and counting through cell lysate impedance spectroscopy in microfluidic devices. Lab on A Chip, 2007, 7, 746-755.	6.0	136
58	Monolithic Chip for High-throughput Blood Cell Depletion to Sort Rare Circulating Tumor Cells. Scientific Reports, 2017, 7, 10936.	3.3	134
59	An RNA-based signature enables high specificity detection of circulating tumor cells in hepatocellular carcinoma. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1123-1128.	7.1	133
60	Molecular signatures of circulating melanoma cells for monitoring early response to immune checkpoint therapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2467-2472.	7.1	131
61	Microvortex for focusing, guiding and sorting of particles. Lab on A Chip, 2008, 8, 2128.	6.0	117
62	The Lipogenic Regulator SREBP2 Induces Transferrin in Circulating Melanoma Cells and Suppresses Ferroptosis. Cancer Discovery, 2021, 11, 678-695.	9.4	114
63	Continuous Flow Microfluidic Device for Rapid Erythrocyte Lysis. Analytical Chemistry, 2004, 76, 6247-6253.	6.5	112
64	An RNA-Based Digital Circulating Tumor Cell Signature Is Predictive of Drug Response and Early Dissemination in Prostate Cancer. Cancer Discovery, 2018, 8, 288-303.	9.4	107
65	Designing a Hepatocellular Microenvironment with Protein Microarraying and Poly(ethylene glycol) Photolithography. Langmuir, 2004, 20, 2999-3005.	3.5	104
66	Nanotechnology: emerging tools for biology and medicine. Genes and Development, 2013, 27, 2397-2408.	5.9	104
67	Deformability of Tumor Cells versus Blood Cells. Scientific Reports, 2015, 5, 18542.	3.3	104
68	Enhancing the performance of a point-of-care CD4+ T-cell counting microchip through monocyte depletion for HIV/AIDS diagnostics. Lab on A Chip, 2009, 9, 1357.	6.0	102
69	Microfluidic isolation of platelet-covered circulating tumor cells. Lab on A Chip, 2017, 17, 3498-3503.	6.0	102
70	Ultrahigh-throughput magnetic sorting of large blood volumes for epitope-agnostic isolation of circulating tumor cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16839-16847.	7.1	101
71	Single-Cell Chemical Lysis in Picoliter-Scale Closed Volumes Using a Microfabricated Device. Analytical Chemistry, 2004, 76, 6137-6143.	6.5	100
72	A Device to Measure the Oxygen Uptake Rate of Attached Cells: Importance in Bioartificial Organ Design. Cell Transplantation, 1994, 3, 515-527.	2.5	96

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73	Expression of β-globin by cancer cells promotes cell survival during blood-borne dissemination. Nature Communications, 2017, 8, 14344.	12.8	96
74	Stress-Induced Changes in Bone Marrow Stromal Cell Populations Revealed through Single-Cell Protein Expression Mapping. Cell Stem Cell, 2019, 25, 570-583.e7.	11.1	96
75	Late embryogenesis abundant proteins protect human hepatoma cells during acute desiccation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20859-20864.	7.1	92
76	Isolation and Molecular Characterization of Circulating Melanoma Cells. Cell Reports, 2014, 7, 645-653.	6.4	91
77	Oxygen is a factor determining in vitro tissue assembly: Effects on attachment and spreading of hepatocytes. Biotechnology and Bioengineering, 1994, 43, 654-660.	3.3	90
78	A Digital RNA Signature of Circulating Tumor Cells Predicting Early Therapeutic Response in Localized and Metastatic Breast Cancer. Cancer Discovery, 2018, 8, 1286-1299.	9.4	85
79	A stable long-term hepatocyte culture system for studies of physiologic processes: cytokine stimulation of the acute phase response in rat and human hepatocytes. Biotechnology Progress, 1992, 8, 219-225.	2.6	82
80	A Microchip Approach for Practical Label-Free CD4+ T-Cell Counting of HIV-Infected Subjects in Resource-Poor Settings. Journal of Acquired Immune Deficiency Syndromes (1999), 2007, 45, 257-261.	2.1	81
81	Microfabrication of an analog of the basal lamina: biocompatible membranes with complex topographies. FASEB Journal, 2000, 14, 593-602.	0.5	79
82	Enrichment using antibody-coated microfluidic chambers in shear flow: Model mixtures of human lymphocytes. Biotechnology and Bioengineering, 2005, 91, 816-826.	3.3	78
83	Cell handling using microstructured membranes. Lab on A Chip, 2006, 6, 345.	6.0	78
84	Continuous Flow Microfluidic Bioparticle Concentrator. Scientific Reports, 2015, 5, 11300.	3.3	76
85	Biodegradable nano-films for capture and non-invasive release of circulating tumor cells. Biomaterials, 2015, 65, 93-102.	11.4	70
86	Analysis of Oxygen Transport to Hepatocytes in a Flat-Plate Microchannel Bioreactor. Annals of Biomedical Engineering, 2001, 29, 947-955.	2.5	69
87	AR Expression in Breast Cancer CTCs Associates with Bone Metastases. Molecular Cancer Research, 2018, 16, 720-727.	3.4	68
88	Successful Cryopreservation of Mouse Oocytes by Using Low Concentrations of Trehalose and Dimethylsulfoxide1. Biology of Reproduction, 2009, 80, 70-78.	2.7	66
89	Trehalose uptake through P2X7 purinergic channels provides dehydration protection. Cryobiology, 2006, 52, 114-127.	0.7	65
90	Transport phenomena during freezing of isolated hepatocytes. AICHE Journal, 1992, 38, 1512-1522.	3.6	63

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91	Cell-cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. Biotechnology and Bioengineering, 1997, 56, 706-711.	3.3	61
92	Long-Term Functional Recovery of Hepatocytes after Cryopreservation in a Three-Dimensional Culture Configuration. Cell Transplantation, 1992, 1, 281-292.	2.5	59
93	Oscillatory inertial focusing in infinite microchannels. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7682-7687.	7.1	58
94	Bioengineered Implantable Scaffolds as a Tool to Study Stromal-Derived Factors in Metastatic Cancer Models. Cancer Research, 2014, 74, 7229-7238.	0.9	56
95	HIF1A signaling selectively supports proliferation of breast cancer in the brain. Nature Communications, 2020, 11, 6311.	12.8	55
96	Exploring Dynamics and Structure of Biomolecules, Cryoprotectants, and Water Using Molecular Dynamics Simulations: Implications for Biostabilization and Biopreservation. Annual Review of Biomedical Engineering, 2019, 21, 1-31.	12.3	54
97	Whole blood stabilization for the microfluidic isolation and molecular characterization of circulating tumor cells. Nature Communications, 2017, 8, 1733.	12.8	53
98	Antibody-targeted Photolysis of Bacteria In Vivo. Nature Biotechnology, 1994, 12, 703-706.	17.5	52
99	Stabilization of Active Recombinant Retroviruses in an Amorphous Dry State with Trehalose. Biotechnology Progress, 1998, 14, 615-620.	2.6	51
100	Engineered Trehalose Permeable to Mammalian Cells. PLoS ONE, 2015, 10, e0130323.	2.5	51
101	Molecular Dynamics at the Interface between Ice and Poly(vinyl alcohol) and Ice Recrystallization Inhibition. Langmuir, 2018, 34, 5116-5123.	3.5	50
102	Microfluidic concentration and separation of circulating tumor cell clusters from large blood volumes. Lab on A Chip, 2020, 20, 558-567.	6.0	50
103	Resolving cancer–stroma interfacial signalling and interventions with micropatterned tumour–stromal assays. Nature Communications, 2014, 5, 5662.	12.8	45
104	A fulminant hepatic failure model in the rat: involvement of interleukin-1beta and tumor necrosis factor-alpha. Digestive Diseases and Sciences, 2001, 46, 1700-1708.	2.3	44
105	Isothermal Desiccation and Vitrification Kinetics of Trehaloseâ^'Dextran Solutions. Langmuir, 2004, 20, 5521-5529.	3.5	43
106	Visualization of microscale particle focusing in diluted and whole blood using particle trajectory analysis. Lab on A Chip, 2012, 12, 2199.	6.0	42
107	A computational study of circulating large tumor cells traversing microvessels. Computers in Biology and Medicine, 2015, 63, 187-195.	7.0	40
108	Single-Cell Analysis of Circulating Tumor Cells as a Window into Tumor Heterogeneity. Cold Spring Harbor Symposia on Quantitative Biology, 2016, 81, 269-274.	1.1	40

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109	Panning of multiple subsets of leukocytes on antibody-decorated poly(ethylene) glycol-coated glass slides. Journal of Immunological Methods, 2006, 313, 96-109.	1.4	39
110	Optimization of hepatocyte attachment to microcarriers: Importance of oxygen. Biotechnology and Bioengineering, 1993, 42, 579-588.	3.3	38
111	The Role of Physical Stabilization in Whole Blood Preservation. Scientific Reports, 2016, 6, 21023.	3.3	38
112	In Vitro Characterization of Porcine Hepatocyte Function. Cell Transplantation, 2000, 9, 1-10.	2.5	36
113	In Vitro and In Vivo Evaluation of Albumin Synthesis Rate of Porcine Hepatocytes in a Flat-Plate Bioreactor. Artificial Organs, 2001, 25, 571-578.	1.9	34
114	COX-2 mediates tumor-stromal prolactin signaling to initiate tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5223-5232.	7.1	34
115	A Spin-Drying Technique for Lyopreservation of Mammalian Cells. Annals of Biomedical Engineering, 2011, 39, 1582-1591.	2.5	32
116	Antibody-Functionalized Fluid-Permeable Surfaces for Rolling Cell Capture at High Flow Rates. Biophysical Journal, 2012, 102, 721-730.	0.5	32
117	Flexible Octopusâ€ S haped Hydrogel Particles for Specific Cell Capture. Small, 2016, 12, 2001-2008.	10.0	32
118	Non-equilibrium Inertial Separation Array for High-throughput, Large-volume Blood Fractionation. Scientific Reports, 2017, 7, 9915.	3.3	32
119	Clusters of circulating tumor cells: A biophysical and technological perspective. Current Opinion in Biomedical Engineering, 2017, 3, 13-19.	3.4	32
120	Invention, innovation, entrepreneurship in academic medical centers. Surgery, 2008, 143, 168-171.	1.9	30
121	High throughput single cell bioinformatics. Biotechnology Progress, 2009, 25, 1772-1779.	2.6	30
122	Integration of Bulk Nanoporous Elements in Microfluidic Devices With Application to Biomedical Diagnostics. Journal of Microelectromechanical Systems, 2011, 20, 1428-1438.	2.5	30
123	Cryopreservation of human spermatozoa with minimal non-permeable cryoprotectant. Cryobiology, 2016, 73, 162-167.	0.7	29
124	Detection and Analysis of Circulating Epithelial Cells in Liquid Biopsies From Patients With Liver Disease. Gastroenterology, 2018, 155, 2016-2018.e11.	1.3	29
125	Rapid Isolation and Concentration of Pathogenic Fungi Using Inertial Focusing on a Chip-Based Platform. Frontiers in Cellular and Infection Microbiology, 2019, 9, 27.	3.9	29
126	Immunofunctional photodegradable poly(ethylene glycol) hydrogel surfaces for the capture and release of rare cells. Colloids and Surfaces B: Biointerfaces, 2019, 174, 483-492.	5.0	28

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127	Bacterial Ice Nucleation in Monodisperse D ₂ O and H ₂ O-in-Oil Emulsions. Langmuir, 2016, 32, 9229-9236.	3.5	27
128	Controlled ice nucleation using freeze-dried Pseudomonas syringae encapsulated in alginate beads. Cryobiology, 2017, 75, 1-6.	0.7	27
129	Microfluidic Leukocyte Isolation for Gene Expression Analysis in Critically Ill Hospitalized Patients. Clinical Chemistry, 2008, 54, 891-900.	3.2	26
130	Thermally Induced Introduction of Trehalose into Primary Rat Hepatocytes. Cell Preservation Technology, 2006, 4, 178-187.	0.6	25
131	Blood-based monitoring identifies acquired and targetable driver HER2 mutations in endocrine-resistant metastatic breast cancer. Npj Precision Oncology, 2019, 3, 18.	5.4	25
132	Liquid biopsy: a perspective for probing blood for cancer. Lab on A Chip, 2019, 19, 548-549.	6.0	25
133	Bulk Droplet Vitrification: An Approach to Improve Large-Scale Hepatocyte Cryopreservation Outcome. Langmuir, 2019, 35, 7354-7363.	3.5	25
134	Dynamic particle ordering in oscillatory inertial microfluidics. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	24
135	Desiccation kinetics of biopreservation solutions in microchannels. Journal of Applied Physics, 2006, 99, 064703.	2.5	22
136	Preservative solution that stabilizes erythrocyte morphology and leukocyte viability under ambient conditions. Scientific Reports, 2017, 7, 5658.	3.3	21
137	Improved Detection of Circulating Epithelial Cells in Patients with Intraductal Papillary Mucinous Neoplasms. Oncologist, 2018, 23, 121-127.	3.7	21
138	Live Pups from Evaporatively Dried Mouse Sperm Stored at Ambient Temperature for up to 2 Years. PLoS ONE, 2014, 9, e99809.	2.5	20
139	Isolation of circulating tumor cells. IScience, 2022, 25, 104696.	4.1	20
140	Prevention of Hemolysis in Rapidly Frozen Erythrocytes by Using a Laser Pulse. Annals of the New York Academy of Sciences, 1998, 858, 245-252.	3.8	19
141	Cryopreservation of infectious Cryptosporidium parvum oocysts. Nature Communications, 2018, 9, 2883.	12.8	19
142	Dynamic Profiling of Antitumor Activity of CAR T Cells Using Micropatterned Tumor Arrays. Advanced Science, 2019, 6, 1901829.	11.2	19
143	A Raman Microspectroscopy Study of Water and Trehalose in Spin-Dried Cells. Biophysical Journal, 2014, 107, 2253-2262.	0.5	18
144	Effect of Ice Nucleation and Cryoprotectants during High Subzero-Preservation in Endothelialized Microchannels. ACS Biomaterials Science and Engineering, 2018, 4, 3006-3015.	5.2	18

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145	Partial freezing of rat livers extends preservation time by 5-fold. Nature Communications, 2022, 13, .	12.8	18
146	Further optimization of mouse spermatozoa evaporative drying techniques. Cryobiology, 2009, 59, 113-115.	0.7	17
147	Deformability-based cell selection with downstream immunofluorescence analysis. Integrative Biology (United Kingdom), 2016, 8, 654-664.	1.3	17
148	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. Scientific Reports, 2020, 10, 4621.	3.3	17
149	Layer-by-layer functionalized nanotube arrays: A versatile microfluidic platform for biodetection. Microsystems and Nanoengineering, 2015, 1, .	7.0	16
150	"Universal" vitrification of cells by ultra-fast cooling. Technology, 2015, 03, 64-71.	1.4	16
151	NR4A1 regulates expression of immediate early genes, suppressing replication stress in cancer. Molecular Cell, 2021, 81, 4041-4058.e15.	9.7	16
152	Analysis of Desiccation and Vitrification Characteristics of Carbohydrate Films by Shear-Wave Resonators. Langmuir, 2005, 21, 2847-2854.	3.5	15
153	Microflow and Crack Formation Patterns in Drying Sessile Droplets of Liposomes Suspended in Trehalose Solutions. Langmuir, 2008, 24, 7688-7697.	3.5	15
154	Genome-wide transcriptome analysis of 150 cell samples. Integrative Biology (United Kingdom), 2009, 1, 99-107.	1.3	15
155	Storage and Translational Issues in Reparative Medicine. Annals of the New York Academy of Sciences, 2002, 961, 258-262.	3.8	14
156	In-flow measurement of cell–cell adhesion using oscillatory inertial microfluidics. Lab on A Chip, 2020, 20, 1612-1620.	6.0	13
157	Interaction between heat shock and interleukin 6 stimulation in the acute-phase response of human hepatoma (HepG2) cells. Hepatology, 1998, 28, 994-1004.	7.3	12
158	Cryopreservation of Spin-Dried Mammalian Cells. PLoS ONE, 2011, 6, e24916.	2.5	12
159	Identification of Somatically Acquired <i>BRCA1/2</i> Mutations by cfDNA Analysis in Patients with Metastatic Breast Cancer. Clinical Cancer Research, 2020, 26, 4852-4862.	7.0	12
160	On a Chip. IEEE Pulse, 2011, 2, 19-27.	0.3	11
161	Integration of Architectural and Cytologic Driven Image Algorithms for Prostate Adenocarcinoma Identification. Analytical Cellular Pathology, 2012, 35, 251-265.	1.4	11
162	Discontinuous Nanoporous Membranes Reduce Nonâ€Specific Fouling for Immunoaffinity Cell Capture. Small, 2013, 9, 4207-4214.	10.0	11

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163	Role of synthetic antifreeze agents in catalyzing ice nucleation. Cryobiology, 2018, 84, 91-94.	0.7	11
164	Cellâ€cell interactions are essential for maintenance of hepatocyte function in collagen gel but not on matrigel. Biotechnology and Bioengineering, 1997, 56, 706-711.	3.3	9
165	Ultra-fast vitrification of patient-derived circulating tumor cell lines. PLoS ONE, 2018, 13, e0192734.	2.5	9
166	Microchannel bioreactors for bioartificial liver support. Microfluidics and Nanofluidics, 2006, 2, 525-535.	2.2	8
167	High-throughput single cell arrays as a novel tool in biopreservation. Cryobiology, 2009, 58, 315-321.	0.7	8
168	Inertial focusing cytometer with integrated optics for particle characterization. Technology, 2013, 01, 27-36.	1.4	8
169	Anti-thrombotic strategies for microfluidic blood processing. Lab on A Chip, 2018, 18, 2146-2155.	6.0	8
170	Immunoassay for HIV Drug Metabolites Tenofovir and Tenofovir Diphosphate. ACS Infectious Diseases, 2020, 6, 1635-1642.	3.8	8
171	Evaluation of endocrine resistance using ESR1 genotyping of circulating tumor cells and plasma DNA. Breast Cancer Research and Treatment, 2021, 188, 43-52.	2.5	8
172	Direct etch method for microfludic channel and nanoheight post-fabrication by picoliter droplets. Applied Physics Letters, 2006, 88, 053117.	3.3	7
173	Chemical gradientâ€mediated melting curve analysis for genotyping of SNPs. Electrophoresis, 2009, 30, 2536-2543.	2.4	7
174	Isolation of intact extracellular vesicles from cryopreserved samples. PLoS ONE, 2021, 16, e0251290.	2.5	7
175	Microsystems Technology in Medicine and Biology. Journal of Biomechanical Engineering, 1999, 121, 1-1.	1.3	6
176	A New Test for the Detection of Direct Oral Anticoagulants (Rivaroxaban and Apixaban) in the Emergency Room Setting. , 2019, 1, e0024.		6
177	Low cryoprotectant concentration rapid vitrification of mouse oocytes and embryos. Cryobiology, 2021, 98, 233-238.	0.7	6
178	Relationship between hepatocellular carcinoma circulating tumor cells and tumor volume. Cancer Convergence, 2018, 2, .	8.0	5
179	Cryopreservation of infectious Cryptosporidium parvum oocysts achieved through vitrification using high aspect ratio specimen containers. Scientific Reports, 2020, 10, 11711.	3.3	5
180	Bulk Droplet Vitrification for Primary Hepatocyte Preservation. Journal of Visualized Experiments, 2019, , .	0.3	2

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181	Cryoprotectant toxicity and hypothermic sensitivity among Anopheles larvae. Cryobiology, 2021, 99, 106-113.	0.7	2
182	Differential Kinase Activity Across Prostate Tumor Compartments Defines Sensitivity to Target Inhibition. Cancer Research, 2022, 82, 1084-1097.	0.9	2
183	Negative-Selection Enrichment of Circulating Tumor Cells from Peripheral Blood Using the Microfluidic CTC-iChip. Methods in Molecular Biology, 2022, 2471, 309-321.	0.9	2
184	Engineering organ perfusion protocols: NMR analysis of hepatocyte isolation from perfused rat liver. Biotechnology and Bioengineering, 1994, 43, 661-672.	3.3	1
185	Simple Devices to Facilitate the Analysis of Collagen Contraction by Cells. BioTechniques, 2000, 29, 412-418.	1.8	1
186	Cell manipulation in microsystems for clinical and biological applications. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	1
187	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
188	Controlling cell interactions by micropatterning in co-cultures: Hepatocytes and 3T3 fibroblasts. , 1997, 34, 189.		1
189	Quantitative Analysis of Circulating Tumor Cells Using RNA-Based Digital Scoring. Recent Results in Cancer Research, 2020, 215, 77-88.	1.8	1
190	Mice Produced by ICSI Using a Conventional Injection Pipette Without Piezo Biology of Reproduction, 2011, 85, 731-731.	2.7	1
191	Microscale Resolution of Moisture Content in Dried Sugar Matrices. , 2003, , .		1
192	Point-of-care semi-quantitative test for adherence to tenofovir alafenamide or tenofovir disoproxil fumarate. Journal of Antimicrobial Chemotherapy, 2022, 77, 996-999.	3.0	1
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