Mehmet Toner

List of Publications by Year
in descending order

207 papers	34,730 citations	7087 78 h-index	3482 182 g-index
210 all docs	210 docs citations	210 times ranked	30479 citing authors

#	Article	IF	Citations
1	Differential Kinase Activity Across Prostate Tumor Compartments Defines Sensitivity to Target Inhibition. Cancer Research, 2022, 82, 1084-1097.	0.4	2
2	Point-of-care semi-quantitative test for adherence to tenofovir alafenamide or tenofovir disoproxil fumarate. Journal of Antimicrobial Chemotherapy, 2022, 77, 996-999.	1.3	1
3	Ernest G. Cravalho Memorial Issue. Journal of Heat Transfer, 2022, , .	1.2	0
4	Negative-Selection Enrichment of Circulating Tumor Cells from Peripheral Blood Using the Microfluidic CTC-iChip. Methods in Molecular Biology, 2022, 2471, 309-321.	0.4	2
5	Isolation of circulating tumor cells. IScience, 2022, 25, 104696.	1.9	20
6	Partial freezing of rat livers extends preservation time by 5-fold. Nature Communications, 2022, 13, .	5.8	18
7	Low cryoprotectant concentration rapid vitrification of mouse oocytes and embryos. Cryobiology, 2021, 98, 233-238.	0.3	6
8	The Lipogenic Regulator SREBP2 Induces Transferrin in Circulating Melanoma Cells and Suppresses Ferroptosis. Cancer Discovery, 2021, 11, 678-695.	7.7	114
9	Cryoprotectant toxicity and hypothermic sensitivity among Anopheles larvae. Cryobiology, 2021, 99, 106-113.	0.3	2
10	Isolation of intact extracellular vesicles from cryopreserved samples. PLoS ONE, 2021, 16, e0251290.	1.1	7
11	Evaluation of endocrine resistance using ESR1 genotyping of circulating tumor cells and plasma DNA. Breast Cancer Research and Treatment, 2021, 188, 43-52.	1.1	8
12	Slow-delivery and distributed exchange of cryoprotective agents with hydrogel beads. Cryobiology, 2021, 103, 150-152.	0.3	0
13	NR4A1 regulates expression of immediate early genes, suppressing replication stress in cancer. Molecular Cell, 2021, 81, 4041-4058.e15.	4.5	16
14	Cryopreservation of infectious Cryptosporidium parvum oocysts achieved through vitrification using high aspect ratio specimen containers. Scientific Reports, 2020, 10, 11711.	1.6	5
15	HIF1A signaling selectively supports proliferation of breast cancer in the brain. Nature Communications, 2020, 11, 6311.	5.8	55
16	Immunoassay for HIV Drug Metabolites Tenofovir and Tenofovir Diphosphate. ACS Infectious Diseases, 2020, 6, 1635-1642.	1.8	8
17	Identification of Somatically Acquired BRCA1/2 Mutations by cfDNA Analysis in Patients with Metastatic Breast Cancer. Clinical Cancer Research, 2020, 26, 4852-4862.	3.2	12
18	Megakaryocytes contain extranuclear histones and may be a source of platelet-associated histones during sepsis. Scientific Reports, 2020, 10, 4621.	1.6	17

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19	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.	3.3	101
20	Deregulation of ribosomal protein expression and translation promotes breast cancer metastasis. Science, 2020, 367, 1468-1473.	6.0	214
21	Microfluidic concentration and separation of circulating tumor cell clusters from large blood volumes. Lab on A Chip, 2020, 20, 558-567.	3.1	50
22	In-flow measurement of cellâ€“cell adhesion using oscillatory inertial microfluidics. Lab on A Chip, 2020, 20, 1612-1620.	3.1	13
23	Quantitative Analysis of Circulating Tumor Cells Using RNA-Based Digital Scoring. Recent Results in Cancer Research, 2020, 215, 77-88.	1.8	1
24	Blood-based monitoring identifies acquired and targetable driver HER2 mutations in endocrine-resistant metastatic breast cancer. Npj Precision Oncology, 2019, 3, 18.	2.3	25
25	Stress-Induced Changes in Bone Marrow Stromal Cell Populations Revealed through Single-Cell Protein Expression Mapping. Cell Stem Cell, 2019, 25, 570-583.e7.	5.2	96
26	Dynamic Profiling of Antitumor Activity of CAR T Cells Using Micropatterned Tumor Arrays. Advanced Science, 2019, 6, 1901829.	5.6	19
27	Bulk Droplet Vitrification for Primary Hepatocyte Preservation. Journal of Visualized Experiments, 2019, , .	0.2	2
28	Liquid biopsy: a perspective for probing blood for cancer. Lab on A Chip, 2019, 19, 548-549.	3.1	25
29	Dynamic particle ordering in oscillatory inertial microfluidics. Microfluidics and Nanofluidics, 2019, 23, 1.	1.0	24
30	Rapid Isolation and Concentration of Pathogenic Fungi Using Inertial Focusing on a Chip-Based Platform. Frontiers in Cellular and Infection Microbiology, 2019, 9, 27.	1.8	29
31	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.	3.3	34
32	A New Test for the Detection of Direct Oral Anticoagulants (Rivaroxaban and Apixaban) in the Emergency Room Setting. , 2019, 1, e0024.		6
33	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.	5.7	54
34	Immunofunctional photodegradable poly(ethylene glycol) hydrogel surfaces for the capture and release of rare cells. Colloids and Surfaces B: Biointerfaces, 2019, 174, 483-492.	2.5	28
35	Bulk Droplet Vitrification: An Approach to Improve Large-Scale Hepatocyte Cryopreservation Outcome. Langmuir, 2019, 35, 7354-7363.	1.6	25
36	Genomic and Functional Fidelity of Small Cell Lung Cancer Patient-Derived Xenografts. Cancer Discovery, 2018, 8, 600-615.	7.7	157

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37	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.	3.3	131
38	AR Expression in Breast Cancer CTCs Associates with Bone Metastases. Molecular Cancer Research, 2018, 16, 720-727.	1.5	68
39	Engineered nanointerfaces for microfluidic isolation and molecular profiling of tumor-specific extracellular vesicles. Nature Communications, 2018, 9, 175.	5.8	248
40	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.	7.7	107
41	Improved Detection of Circulating Epithelial Cells in Patients with Intraductal Papillary Mucinous Neoplasms. Oncologist, 2018, 23, 121-127.	1.9	21
42	Molecular Dynamics at the Interface between Ice and Poly(vinyl alcohol) and Ice Recrystallization Inhibition. Langmuir, 2018, 34, 5116-5123.	1.6	50
43	Detection and Analysis of Circulating Epithelial Cells in Liquid Biopsies From Patients With Liver Disease. Gastroenterology, 2018, 155, 2016-2018.e11.	0.6	29
44	Effect of Ice Nucleation and Cryoprotectants during High Subzero-Preservation in Endothelialized Microchannels. ACS Biomaterials Science and Engineering, 2018, 4, 3006-3015.	2.6	18
45	Cryopreservation of infectious Cryptosporidium parvum oocysts. Nature Communications, 2018, 9, 2883.	5.8	19
46	Oscillatory inertial focusing in infinite microchannels. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7682-7687.	3.3	58
47	Role of synthetic antifreeze agents in catalyzing ice nucleation. Cryobiology, 2018, 84, 91-94.	0.3	11
48	A Digital RNA Signature of Circulating Tumor Cells Predicting Early Therapeutic Response in Localized and Metastatic Breast Cancer. Cancer Discovery, 2018, 8, 1286-1299.	7.7	85
49	Relationship between hepatocellular carcinoma circulating tumor cells and tumor volume. Cancer Convergence, 2018, 2, .	8.0	5
50	Anti-thrombotic strategies for microfluidic blood processing. Lab on A Chip, 2018, 18, 2146-2155.	3.1	8
51	Ultra-fast vitrification of patient-derived circulating tumor cell lines. PLoS ONE, 2018, 13, e0192734.	1.1	9
52	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.	3.3	133
53	Expression of Î²-globin by cancer cells promotes cell survival during blood-borne dissemination. Nature Communications, 2017, 8, 14344.	5.8	96
54	The promise of organ and tissue preservation to transform medicine. Nature Biotechnology, 2017, 35, 530-542.	9.4	371

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55	Microfluidic Isolation of Circulating Tumor Cell Clusters by Size and Asymmetry. Scientific Reports, 2017, 7, 2433.	1.6	158
56	Controlled ice nucleation using freeze-dried Pseudomonas syringae encapsulated in alginate beads. Cryobiology, 2017, 75, 1-6.	0.3	27
57	Microfluidic isolation of platelet-covered circulating tumor cells. Lab on A Chip, 2017, 17, 3498-3503.	3.1	102
58	Monolithic Chip for High-throughput Blood Cell Depletion to Sort Rare Circulating Tumor Cells. Scientific Reports, 2017, 7, 10936.	1.6	134
59	Non-equilibrium Inertial Separation Array for High-throughput, Large-volume Blood Fractionation. Scientific Reports, 2017, 7, 9915.	1.6	32
60	Preservative solution that stabilizes erythrocyte morphology and leukocyte viability under ambient conditions. Scientific Reports, 2017, 7, 5658.	1.6	21
61	Clusters of circulating tumor cells: A biophysical and technological perspective. Current Opinion in Biomedical Engineering, 2017, 3, 13-19.	1.8	32
62	Whole blood stabilization for the microfluidic isolation and molecular characterization of circulating tumor cells. Nature Communications, 2017, 8, 1733.	5.8	53
63	Single-Cell Analysis of Circulating Tumor Cells as a Window into Tumor Heterogeneity. Cold Spring Harbor Symposia on Quantitative Biology, 2016, 81, 269-274.	2.0	40
64	The Role of Physical Stabilization in Whole Blood Preservation. Scientific Reports, 2016, 6, 21023.	1.6	38
65	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.	3.3	364
66	Bacterial Ice Nucleation in Monodisperse D₂O and H₂O-in-Oil Emulsions. Langmuir, 2016, 32, 9229-9236.	1.6	27
67	Cryopreservation of human spermatozoa with minimal non-permeable cryoprotectant. Cryobiology, 2016, 73, 162-167.	0.3	29
68	HER2 expression identifies dynamic functional states within circulating breast cancer cells. Nature, 2016, 537, 102-106.	13.7	335
69	Flexible Octopusâ€Shaped Hydrogel Particles for Specific Cell Capture. Small, 2016, 12, 2001-2008.	5.2	32
70	Deformability-based cell selection with downstream immunofluorescence analysis. Integrative Biology (United Kingdom), 2016, 8, 654-664.	0.6	17
71	Detection of T790M, the Acquired Resistance EGFR Mutation, by Tumor Biopsy versus Noninvasive Blood-Based Analyses. Clinical Cancer Research, 2016, 22, 1103-1110.	3.2	326
72	Continuous Flow Microfluidic Bioparticle Concentrator. Scientific Reports, 2015, 5, 11300.	1.6	76

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73	Deformability of Tumor Cells versus Blood Cells. Scientific Reports, 2015, 5, 18542.	1.6	104
74	Layer-by-layer functionalized nanotube arrays: A versatile microfluidic platform for biodetection. Microsystems and Nanoengineering, 2015, 1, .	3.4	16
75	"Universal" vitrification of cells by ultra-fast cooling. Technology, 2015, 03, 64-71.	1.4	16
76	Tunable Nanostructured Coating for the Capture and Selective Release of Viable Circulating Tumor Cells. Advanced Materials, 2015, 27, 1593-1599.	11.1	144
77	A computational study of circulating large tumor cells traversing microvessels. Computers in Biology and Medicine, 2015, 63, 187-195.	3.9	40
78	Biodegradable nano-films for capture and non-invasive release of circulating tumor cells. Biomaterials, 2015, 65, 93-102.	5.7	70
79	A microfluidic device for label-free, physical capture of circulating tumor cell clusters. Nature Methods, 2015, 12, 685-691.	9.0	628
80	En Route to Metastasis: Circulating Tumor Cell Clusters and Epithelial-to-Mesenchymal Transition. Trends in Cancer, 2015, 1, 44-52.	3.8	218
81	RNA-Seq of single prostate CTCs implicates noncanonical Wnt signaling in antiandrogen resistance. Science, 2015, 349, 1351-1356.	6.0	614
82	Engineered Trehalose Permeable to Mammalian Cells. PLoS ONE, 2015, 10, e0130323.	1.1	51
83	Live Pups from Evaporatively Dried Mouse Sperm Stored at Ambient Temperature for up to 2 Years. PLoS ONE, 2014, 9, e99809.	1.1	20
84	Resolving cancerâ€“stroma interfacial signalling and interventions with micropatterned tumourâ€“stromal assays. Nature Communications, 2014, 5, 5662.	5.8	45
85	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. Nature Nanotechnology, 2014, 9, 969-980.	15.6	349
86	Microfluidic, marker-free isolation of circulating tumor cells from blood samples. Nature Protocols, 2014, 9, 694-710.	5.5	634
87	A Raman Microspectroscopy Study of Water and Trehalose in Spin-Dried Cells. Biophysical Journal, 2014, 107, 2253-2262.	0.2	18
88	Inertio-elastic focusing of bioparticles in microchannels at high throughput. Nature Communications, 2014, 5, 4120.	5.8	173
89	Bioengineered Implantable Scaffolds as a Tool to Study Stromal-Derived Factors in Metastatic Cancer Models. Cancer Research, 2014, 74, 7229-7238.	0.4	56
90	Inertial Focusing in Microfluidics. Annual Review of Biomedical Engineering, 2014, 16, 371-396.	5.7	419

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91	Circulating Tumor Cell Clusters Are Oligoclonal Precursors of Breast Cancer Metastasis. Cell, 2014, 158, 1110-1122.	13.5	1,960
92	Ex vivo culture of circulating breast tumor cells for individualized testing of drug susceptibility. Science, 2014, 345, 216-220.	6.0	808
93	Collective and individual migration following the epithelialâ€“mesenchymal transition. Nature Materials, 2014, 13, 1063-1071.	13.3	169
94	Single-Cell RNA Sequencing Identifies Extracellular Matrix Gene Expression by Pancreatic Circulating Tumor Cells. Cell Reports, 2014, 8, 1905-1918.	2.9	449
95	Supercooling enables long-term transplantation survival following 4 days of liver preservation. Nature Medicine, 2014, 20, 790-793.	15.2	153
96	Brain Tumor Cells in Circulation Are Enriched for Mesenchymal Gene Expression. Cancer Discovery, 2014, 4, 1299-1309.	7.7	207
97	Isolation and Molecular Characterization of Circulating Melanoma Cells. Cell Reports, 2014, 7, 645-653.	2.9	91
98	Nanotechnology: emerging tools for biology and medicine. Genes and Development, 2013, 27, 2397-2408.	2.7	104
99	Circulating Breast Tumor Cells Exhibit Dynamic Changes in Epithelial and Mesenchymal Composition. Science, 2013, 339, 580-584.	6.0	2,137
100	Discontinuous Nanoporous Membranes Reduce Nonâ€Specific Fouling for Immunoaffinity Cell Capture. Small, 2013, 9, 4207-4214.	5.2	11
101	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.	5.1	356
102	Inertial focusing cytometer with integrated optics for particle characterization. Technology, 2013, 01, 27-36.	1.4	8
103	Inertial Focusing for Tumor Antigenâ€“Dependent and â€“Independent Sorting of Rare Circulating Tumor Cells. Science Translational Medicine, 2013, 5, 179ra47.	5.8	910
104	Particle Focusing in Curved Microfluidic Channels. Scientific Reports, 2013, 3, .	1.6	161
105	Androgen Receptor Signaling in Circulating Tumor Cells as a Marker of Hormonally Responsive Prostate Cancer. Cancer Discovery, 2012, 2, 995-1003.	7.7	257
106	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.	3.3	92
107	Antibody-Functionalized Fluid-Permeable Surfaces for Rolling Cell Capture at High Flow Rates. Biophysical Journal, 2012, 102, 721-730.	0.2	32
108	Inertial focusing dynamics in spiral microchannels. Physics of Fluids, 2012, 24, 32001.	1.6	183

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109	Visualization of microscale particle focusing in diluted and whole blood using particle trajectory analysis. Lab on A Chip, 2012, 12, 2199.	3.1	42
110	Integration of Architectural and Cytologic Driven Image Algorithms for Prostate Adenocarcinoma Identification. Analytical Cellular Pathology, 2012, 35, 251-265.	0.7	11
111	Bioheat Transfer With Ken Diller: A Perspective on Intracellular Ice Formation During Freezing of Cells. , 2012, , .		0
112	Circulating tumor cells: approaches to isolation and characterization. Journal of Cell Biology, 2011, 192, 373-382.	2.3	971
113	On a Chip. IEEE Pulse, 2011, 2, 19-27.	0.1	11
114	Integration of Bulk Nanoporous Elements in Microfluidic Devices With Application to Biomedical Diagnostics. Journal of Microelectromechanical Systems, 2011, 20, 1428-1438.	1.7	30
115	LEA Proteins During Water Stress: Not Just for Plants Anymore. Annual Review of Physiology, 2011, 73, 115-134.	5.6	359
116	A Spin-Drying Technique for Lyopreservation of Mammalian Cells. Annals of Biomedical Engineering, 2011, 39, 1582-1591.	1.3	32
117	Cryopreservation of Spin-Dried Mammalian Cells. PLoS ONE, 2011, 6, e24916.	1.1	12
118	Mice Produced by ICSI Using a Conventional Injection Pipette Without Piezo.. Biology of Reproduction, 2011, 85, 731-731.	1.2	1
119	Desiccation at Ambient Temperature and Storage of Mouse Sperm in 3-O-methyl-D-glucose Medium Without Freezing.. Biology of Reproduction, 2011, 85, 732-732.	1.2	0
120	Clinical microfluidics for neutrophil genomics and proteomics. Nature Medicine, 2010, 16, 1042-1047.	15.2	168
121	Isolation and Characterization of Circulating Tumor Cells from Patients with Localized and Metastatic Prostate Cancer. Science Translational Medicine, 2010, 2, 25ra23.	5.8	474
122	Particle Focusing in Staged Inertial Microfluidic Devices for Flow Cytometry. Analytical Chemistry, 2010, 82, 3862-3867.	3.2	202
123	Isolation of circulating tumor cells using a microvortex-generating herringbone-chip. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18392-18397.	3.3	1,454
124	Chemical gradientâ€mediated melting curve analysis for genotyping of SNPs. Electrophoresis, 2009, 30, 2536-2543.	1.3	7
125	High throughput single cell bioinformatics. Biotechnology Progress, 2009, 25, 1772-1779.	1.3	30
126	Particle Segregation and Dynamics in Confined Flows. Physical Review Letters, 2009, 102, 094503.	2.9	431

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127	High-throughput single cell arrays as a novel tool in biopreservation. Cryobiology, 2009, 58, 315-321.	0.3	8
128	Further optimization of mouse spermatozoa evaporative drying techniques. Cryobiology, 2009, 59, 113-115.	0.3	17
129	Differential inertial focusing of particles in curved low-aspect-ratio microchannels. New Journal of Physics, 2009, 11, 075025.	1.2	152
130	Successful Cryopreservation of Mouse Oocytes by Using Low Concentrations of Trehalose and Dimethylsulfoxide1. Biology of Reproduction, 2009, 80, 70-78.	1.2	66
131	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.	3.1	102
132	Genome-wide transcriptome analysis of 150 cell samples. Integrative Biology (United Kingdom), 2009, 1, 99-107.	0.6	15
133	Mercury-free mouse ICSI with rotationally oscillating drill (Ros-Drill©). , 2009, , .		0
134	Invention, innovation, entrepreneurship in academic medical centers. Surgery, 2008, 143, 168-171.	1.0	30
135	Detection of Mutations inEGFRin Circulating Lung-Cancer Cells. New England Journal of Medicine, 2008, 359, 366-377.	13.9	1,602
136	Equilibrium Separation and Filtration of Particles Using Differential Inertial Focusing. Analytical Chemistry, 2008, 80, 2204-2211.	3.2	354
137	Microvortex for focusing, guiding and sorting of particles. Lab on A Chip, 2008, 8, 2128.	3.1	117
138	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
139	Controlled encapsulation of single-cells into monodisperse picolitre drops. Lab on A Chip, 2008, 8, 1262.	3.1	444
140	Microflow and Crack Formation Patterns in Drying Sessile Droplets of Liposomes Suspended in Trehalose Solutions. Langmuir, 2008, 24, 7688-7697.	1.6	15
141	Microfluidic Leukocyte Isolation for Gene Expression Analysis in Critically Ill Hospitalized Patients. Clinical Chemistry, 2008, 54, 891-900.	1.5	26
142	Ultra-Fast Vitrification of Murine Embryonic Stem Cells Using a Low Concentration of Cryoprotectants. , 2008, , .		0
143	Moving Living Cells and Fluids on Microchips for Diagnostics. , 2008, , .		0
144	Continuous inertial focusing, ordering, and separation of particles in microchannels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18892-18897.	3.3	1,408

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145	A high-throughput microfluidic real-time gene expression living cell array. Lab on A Chip, 2007, 7, 77-85.	3.1	200
146	A microfluidic device for practical label-free CD4+ T cell counting of HIV-infected subjects. Lab on A Chip, 2007, 7, 170-178.	3.1	312
147	Cell detection and counting through cell lysate impedance spectroscopy in microfluidic devices. Lab on A Chip, 2007, 7, 746-755.	3.1	136
148	Development of New Therapeutic Applications Using Microfluidics. Journal of Visualized Experiments, 2007, , 323.	0.2	0
149	Isolation of rare circulating tumour cells in cancer patients by microchip technology. Nature, 2007, 450, 1235-1239.	13.7	3,272
150	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.	0.9	81
151	Cell handling using microstructured membranes. Lab on A Chip, 2006, 6, 345.	3.1	78
152	Trehalose uptake through P2X7 purinergic channels provides dehydration protection. Cryobiology, 2006, 52, 114-127.	0.3	65
153	Microchannel bioreactors for bioartificial liver support. Microfluidics and Nanofluidics, 2006, 2, 525-535.	1.0	8
154	Panning of multiple subsets of leukocytes on antibody-decorated poly(ethylene) glycol-coated glass slides. Journal of Immunological Methods, 2006, 313, 96-109.	0.6	39
155	Desiccation kinetics of biopreservation solutions in microchannels. Journal of Applied Physics, 2006, 99, 064703.	1.1	22
156	Direct etch method for microfludic channel and nanoheight post-fabrication by picoliter droplets. Applied Physics Letters, 2006, 88, 053117.	1.5	7
157	Thermally Induced Introduction of Trehalose into Primary Rat Hepatocytes. Cell Preservation Technology, 2006, 4, 178-187.	0.8	25
158	Blood-on-a-Chip. Annual Review of Biomedical Engineering, 2005, 7, 77-103.	5.7	579
159	Enrichment using antibody-coated microfluidic chambers in shear flow: Model mixtures of human lymphocytes. Biotechnology and Bioengineering, 2005, 91, 816-826.	1.7	78
160	Analysis of Desiccation and Vitrification Characteristics of Carbohydrate Films by Shear-Wave Resonators. Langmuir, 2005, 21, 2847-2854.	1.6	15
161	Development of a microfabricated cytometry platform for characterization and sorting of individual leukocytes. Lab on A Chip, 2005, 5, 30.	3.1	158
162	Measurement of Molecular Mobility in Mammalian Cells. , 2004, , 91.		0

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163	Effect of Flow and Surface Conditions on Human Lymphocyte Isolation Using Microfluidic Chambers. Langmuir, 2004, 20, 11649-11655.	1.6	140
164	Isothermal Desiccation and Vitrification Kinetics of Trehaloseâ"Dextran Solutions. Langmuir, 2004, 20, 5521-5529.	1.6	43
165	Single-Cell Chemical Lysis in Picoliter-Scale Closed Volumes Using a Microfabricated Device. Analytical Chemistry, 2004, 76, 6137-6143.	3.2	100
166	Continuous Flow Microfluidic Device for Rapid Erythrocyte Lysis. Analytical Chemistry, 2004, 76, 6247-6253.	3.2	112
167	Designing a Hepatocellular Microenvironment with Protein Microarraying and Poly(ethylene glycol) Photolithography. Langmuir, 2004, 20, 2999-3005.	1.6	104
168	A Study of Enthalpic Relaxation of Trehalose-Water Glasses. , 2004, , .		0
169	Surface Engineering with Poly(ethylene glycol) Photolithography to Create High-Density Cell Arrays on Glass. Langmuir, 2003, 19, 9855-9862.	1.6	244
170	Microscale Resolution of Moisture Content in Dried Sugar Matrices. , 2003, , .		1
171	Glass Formation During Room Temperature, Isothermal Drying. , 2003, , .		0
172	Beneficial effect of microinjected trehalose on the cryosurvival of human oocytes. Fertility and Sterility, 2002, 77, 152-158.	0.5	196
173	A Microfabrication-Based Dynamic Array Cytometer. Analytical Chemistry, 2002, 74, 3984-3990.	3.2	314
174	Storage and Translational Issues in Reparative Medicine. Annals of the New York Academy of Sciences, 2002, 961, 258-262.	1.8	14
175	Thermostability Studies of Desiccated Murine Spermatozoa Nuclear DNA to Predict the Beneficial Effect of Trehalose in Long Term Storage. , 2002, , .		0
176	In Vitro and In Vivo Evaluation of Albumin Synthesis Rate of Porcine Hepatocytes in a Flat-Plate Bioreactor. Artificial Organs, 2001, 25, 571-578.	1.0	34
177	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.	1.7	304
178	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.	1.1	44
179	Analysis of Oxygen Transport to Hepatocytes in a Flat-Plate Microchannel Bioreactor. Annals of Biomedical Engineering, 2001, 29, 947-955.	1.3	69
180	In Vitro Characterization of Porcine Hepatocyte Function. Cell Transplantation, 2000, 9, 1-10.	1.2	36

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181	Intracellular trehalose improves the survival of cryopreserved mammalian cells. Nature Biotechnology, 2000, 18, 163-167.	9.4	475
182	Microfabrication of an analog of the basal lamina: biocompatible membranes with complex topographies. FASEB Journal, 2000, 14, 593-602.	0.2	79
183	Simple Devices to Facilitate the Analysis of Collagen Contraction by Cells. BioTechniques, 2000, 29, 412-418.	0.8	1
184	Literature Review: Supplemented Phase Diagram of the Trehaloseâ€“Water Binary Mixture. Cryobiology, 2000, 40, 277-282.	0.3	203
185	Microengineering of Cellular Interactions. Annual Review of Biomedical Engineering, 2000, 2, 227-256.	5.7	565
186	Microsystems Technology in Medicine and Biology. Journal of Biomechanical Engineering, 1999, 121, 1-1.	0.6	6
187	Cellular Micropatterns on Biocompatible Materials. Biotechnology Progress, 1998, 14, 388-392.	1.3	251
188	Stabilization of Active Recombinant Retroviruses in an Amorphous Dry State with Trehalose. Biotechnology Progress, 1998, 14, 615-620.	1.3	51
189	Prevention of Hemolysis in Rapidly Frozen Erythrocytes by Using a Laser Pulse. Annals of the New York Academy of Sciences, 1998, 858, 245-252.	1.8	19
190	Interaction between heat shock and interleukin 6 stimulation in the acute-phase response of human hepatoma (HepG2) cells. Hepatology, 1998, 28, 994-1004.	3.6	12
191	Artificial Micropatterns of Cells on Biocompatible Surfaces. , 1998, , .		0
192	X-Ray Diffraction Studies of Laser Created Amorphous Ice. , 1998, , .		0
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