Jeffrey J Chalmers

List of Publications by Year
in descending order

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146	6,720	53939 47	87275 74
papers	citations	h-index	g-index

151	151	151	7420
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	SPIONs self-assembly and magnetic sedimentation in quadrupole magnets: Gaining insight into the separation mechanisms. Separation and Purification Technology, 2022, 280, 119786.	3.9	9
2	Potential of cell tracking velocimetry as an economical and portable hematology analyzer. Scientific Reports, 2022, 12, 1692.	1.6	6
3	Tangential flow filtration facilitated washing of human red blood cells: A proofâ€ofâ€concept study. Vox Sanguinis, 2022, , .	0.7	0
4	Continuous-Flow Magnetic Fractionation of Red Blood Cells Based on Hemoglobin Content and Oxygen Saturationâ€"Clinical Blood Supply Implications and Sickle Cell Anemia Treatment. Processes, 2022, 10, 927.	1.3	3
5	Intrinsically magnetic susceptibility in human blood and its potential impact on cell separation: Non-classical and intermediate monocytes have the strongest magnetic behavior in fresh human blood. Experimental Hematology, 2021, 99, 21-31.e5.	0.2	7
6	Recovery of Magnetic Catalysts: Advanced Design for Process Intensification. Industrial & Engineering Chemistry Research, 2021, 60, 16780-16790.	1.8	9
7	Magnetophoretic and spectral characterization of oxyhemoglobin and deoxyhemoglobin: Chemical versus enzymatic processes. PLoS ONE, 2021, 16, e0257061.	1.1	5
8	The challenges of hydrodynamic forces on cells used in Cell Manufacturing and Therapy. Current Opinion in Biomedical Engineering, 2021, , 100357.	1.8	1
9	Biomolecular detection, tracking, and manipulation using a magnetic nanoparticle-quantum dot platform. Journal of Materials Chemistry B, 2020, 8, 3534-3541.	2.9	11
10	Quantification of the Mean and Distribution of Hemoglobin Content in Normal Human Blood Using Cell Tracking Velocimetry. Analytical Chemistry, 2020, 92, 1956-1962.	3.2	16
11	Formation and manipulation of ferrofluid droplets with magnetic fields in a microdevice: a numerical parametric study. Soft Matter, 2020, 16, 9506-9518.	1.2	17
12	Self-assembly and sedimentation of 5Ânm SPIONs using horizontal, high magnetic fields and gradients. Separation and Purification Technology, 2020, 248, 117012.	3.9	12
13	Hyperferritinemia in critically ill COVID-19 patients â€“ Is ferritin the product of inflammation or a pathogenic mediator?. Clinica Chimica Acta, 2020, 509, 249-251.	0.5	161
14	Continuous-Flow Separation of Magnetic Particles from Biofluids: How Does the Microdevice Geometry Determine the Separation Performance?. Sensors, 2020, 20, 3030.	2.1	14
15	Single cell analysis of aged RBCs: quantitative analysis of the aged cells and byproducts. Analyst, The, 2019, 144, 935-942.	1.7	8
16	Quantitative characterization of the regulation of iron metabolism in glioblastoma stemâ€like cells using magnetophoresis. Biotechnology and Bioengineering, 2019, 116, 1644-1655.	1.7	14
17	A Subpopulation of Monocytes in Normal Human Blood Has Significant Magnetic Susceptibility: Quantification and Potential Implications. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2019, 95, 478-487.	1.1	13
18	Single cell magnetometry by magnetophoresis vs. bulk cell suspension magnetometry by SQUID-MPMS â€“ A comparison. Journal of Magnetism and Magnetic Materials, 2019, 474, 152-160.	1.0	10

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19	Continuous, intrinsic magnetic depletion of erythrocytes from whole blood with a quadrupole magnet and annular flow channel; pilot scale study. Biotechnology and Bioengineering, 2018, 115, 1521-1530.	1.7	9
20	Correlation of simulation/finite element analysis to the separation of intrinsically magnetic spores and red blood cells using a microfluidic magnetic deposition system. Biotechnology and Bioengineering, 2018, 115, 1288-1300.	1.7	10
21	Implementing Liquid Biopsies in Clinical Trials. Cancer Journal (Sudbury, Mass), 2018, 24, 61-64.	1.0	12
22	Magnetic Quantum Dots Steer and Detach Microtubules From Kinesinâ€Coated Surfaces. Biotechnology Journal, 2018, 13, 1700402.	1.8	2
23	Tessellated permanent magnet circuits for flow-through, open gradient separations of weakly magnetic materials. Journal of Magnetism and Magnetic Materials, 2017, 427, 325-330.	1.0	3
24	Femtogram Resolution of Iron Content on a Per Cell Basis: Ex Vivo Storage of Human Red Blood Cells Leads to Loss of Hemoglobin. Analytical Chemistry, 2017, 89, 3702-3709.	3.2	17
25	Multispectral Imaging Analysis of Circulating Tumor Cells in Negatively Enriched Peripheral Blood Samples. Methods in Molecular Biology, 2017, 1634, 219-234.	0.4	2
26	Low active loading of cargo into engineered extracellular vesicles results in inefficient miRNA mimic delivery. Journal of Extracellular Vesicles, 2017, 6, 1333882.	5.5	65
27	Mechanotransduction Effects on Endothelial Cell Proliferation via CD31 and VEGFR2: Implications for Immunomagnetic Separation. Biotechnology Journal, 2017, 12, 1600750.	1.8	14
28	Comprehensive toxicity and immunogenicity studies reveal minimal effects in mice following sustained dosing of extracellular vesicles derived from HEK293T cells. Journal of Extracellular Vesicles, 2017, 6, 1324730.	5.5	357
29	Magnetic Cell Manipulation and Sorting. Microsystems and Nanosystems, 2017, , 15-55.	0.1	6
30	Effect of surgical intervention on circulating tumor cells in patients with squamous cell carcinoma of the head and neck using a negative enrichment technology. Head and Neck, 2016, 38, 1799-1803.	0.9	15
31	Circulating tumor cells in head and neck cancer: A review. World Journal of Otorhinolaryngology - Head and Neck Surgery, 2016, 2, 109-116.	0.7	24
32	Tailoring the surface charge of dextran-based polymer coated SPIONs for modulated stem cell uptake and MRI contrast. Biomaterials Science, 2015, 3, 608-616.	2.6	44
33	Magnetic separation of algae genetically modified for increased intracellular iron uptake. Journal of Magnetism and Magnetic Materials, 2015, 380, 201-204.	1.0	9
34	Mixing, aeration and cell damage, 30+ years later: what we learned, how it affected the cell culture industry and what we would like to know more about. Current Opinion in Chemical Engineering, 2015, 10, 94-102.	3.8	52
35	Hydrodynamic Damage to Animal Cells. Cell Engineering, 2015, , 169-183.	0.4	4
36	Gene expression patterns through oral squamous cell carcinoma development: PD-L1 expression in primary tumor and circulating tumor cells. Oncotarget, 2015, 6, 20902-20920.	0.8	96

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37	Heterogeneous atypical cell populations are present in blood of metastatic breast cancer patients. Breast Cancer Research, 2014, 16, R23.	2.2	94
38	Feasibility study of red blood cell debulking by magnetic field-flow fractionation with step-programmed flow. Analytical and Bioanalytical Chemistry, 2014, 406, 1661-1670.	1.9	18
39	Isolation and analysis of rare cells in the blood of cancer patients using a negative depletion methodology. Methods, 2013, 64, 169-182.	1.9	38
40	Open Gradient Magnetic Red Blood Cell Sorter Evaluation on Model Cell Mixtures. IEEE Transactions on Magnetics, 2013, 49, 309-315.	1.2	21
41	On-chip magnetic separation and encapsulation of cells in droplets. Lab on A Chip, 2013, 13, 1172.	3.1	64
42	Assessment of Î³-H2AX levels in circulating tumor cells from patients receiving chemotherapy. Frontiers in Oncology, 2012, 2, 128.	1.3	20
43	Iron Transport in Cancer Cell Culture Suspensions Measured by Cell Magnetophoresis. Analytical Chemistry, 2012, 84, 4520-4526.	3.2	19
44	Simultaneous, single particle, magnetization and size measurements of micron sized, magnetic particles. Journal of Magnetism and Magnetic Materials, 2012, 324, 4189-4199.	1.0	26
45	Cell Enrichment from Human Blood through Red Cell Lysis. Methods in Cell Biology, 2012, 112, 183-192.	0.5	3
46	Multiparameter Analysis, including EMT Markers, on Negatively Enriched Blood Samples from Patients with Squamous Cell Carcinoma of the Head and Neck. PLoS ONE, 2012, 7, e42048.	1.1	101
47	Erythrocyte Enrichment in Hematopoietic Progenitor Cell Cultures Based on Magnetic Susceptibility of the Hemoglobin. PLoS ONE, 2012, 7, e39491.	1.1	18
48	Magnetic, Batch Separation. Methods in Cell Biology, 2012, 112, 193-201.	0.5	0
49	Emerging Technologies for CTC Detection Based on Depletion of Normal Cells. Recent Results in Cancer Research, 2012, 195, 97-110.	1.8	55
50	A MagDot-Nanoconveyor Assay Detects and Isolates Molecular Biomarkers. Chemical Engineering Progress, 2012, 108, 41-46.	0.0	4
51	Quantification of changes in oxygen release from red blood cells as a function of age based on magnetic susceptibility measurements. Analyst, The, 2011, 136, 2996.	1.7	23
52	Rare Cell Separation and Analysis by Magnetic Sorting. Analytical Chemistry, 2011, 83, 8050-8056.	3.2	165
53	Identification of circulating tumor cells: a prognostic marker in squamous cell carcinoma of the head and neck?. Future Oncology, 2011, 7, 481-484.	1.1	29
54	The potential of hydrodynamic damage to animal cells of industrial relevance: current understanding. Cytotechnology, 2011, 63, 445-460.	0.7	111

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55	Quantification of both the presence, and oxidation state, of Mn in Bacillus atrophaeus spores and its imparting of magnetic susceptibility to the spores. Biotechnology and Bioengineering, 2011, 108, 1119-1129.	1.7	12
56	Growth inhibition of dinoflagellate algae in shake flasks: Not due to shear this time!. Biotechnology Progress, 2010, 26, 79-87.	1.3	11
57	Quantification of nonâ€specific binding of magnetic microâ€and nanoparticles using cell tracking velocimetry: Implication for magnetic cell separation and detection. Biotechnology and Bioengineering, 2010, 105, 1078-1093.	1.7	35
58	Magnetic Pressure as a Scalar Representation of Field Effects in Magnetic Suspensions. , 2010, 1311, 111-117.		2
59	Significance of Circulating Tumor Cells in Patients With Squamous Cell Carcinoma of the Head and Neck. JAMA Otolaryngology, 2010, 136, 1274.	1.5	110
60	Sequential CD34 cellfractionation by magnetophoresis in a magnetic dipole flow sorter. Analyst, The, 2010, 135, 62-70.	1.7	38
61	Optimization of an enrichment process for circulating tumor cells from the blood of head and neck cancer patients through depletion of normal cells. Biotechnology and Bioengineering, 2009, 102, 521-534.	1.7	180
62	Evaluation of the effect of chronic hydrodynamical stresses on cultures of suspensed CHOâ€6E6 cells. Biotechnology and Bioengineering, 2009, 102, 1119-1130.	1.7	37
63	Effects of energy dissipation rate on islets of Langerhans: Implications for isolation and transplantation. Biotechnology and Bioengineering, 2009, 103, 413-423.	1.7	14
64	Physiological responses of CHO cells to repetitive hydrodynamic stress. Biotechnology and Bioengineering, 2009, 103, 1103-1117.	1.7	83
65	Confocal Images of Circulating Tumor Cells Obtained Using a Methodology and Technology That Removes Normal Cells. Molecular Pharmaceutics, 2009, 6, 1402-1408.	2.3	49
66	The Use of Electrohydrodynamic Spraying to Disperse Hydrophobic Compounds in Aqueous Media. Aerosol Science and Technology, 2009, 43, 902-910.	1.5	11
67	Quadrupole Magnetic Sorting of Porcine Islets of Langerhans. Tissue Engineering - Part C: Methods, 2009, 15, 147-156.	1.1	19
68	Computer simulations of the energy dissipation rate in a fluorescenceâ€activated cell sorter: Implications to cells. Biotechnology and Bioengineering, 2008, 100, 260-272.	1.7	78
69	An investigation of smallâ€molecule surfactants to potentially replace pluronic Fâ€68 for reducing bubbleâ€associated cell damage. Biotechnology and Bioengineering, 2008, 101, 119-127.	1.7	22
70	Differences in magnetically induced motion of diamagnetic, paramagnetic, and superparamagnetic microparticles detected by cell tracking velocimetry. Analyst, The, 2008, 133, 1767.	1.7	29
71	Quantitative intracellular magnetic nanoparticle uptake measured by live cell magnetophoresis. FASEB Journal, 2008, 22, 4239-4247.	0.2	67
72	Analytical magnetic techniques in biology. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2007, 32, 225-247.	0.2	1

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73	New challenges and opportunities. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2007, 32, 331-412.	0.2	3
74	Preparative applications of magnetic separation in biology and medicine. Laboratory Techniques in Biochemistry and Molecular Biology / Edited By T S Work [and] E Work, 2007, , 249-264.	0.2	1
75	Blood progenitor cell separation from clinical leukapheresis product by magnetic nanoparticle binding and magnetophoresis. Biotechnology and Bioengineering, 2007, 96, 1139-1154.	1.7	94
76	Quantification of magnetic susceptibility in several strains ofBacillus spores: Implications for separation and detection. Biotechnology and Bioengineering, 2007, 98, 186-192.	1.7	18
77	Acute hydrodynamic forces and apoptosis: A complex question. Biotechnology and Bioengineering, 2007, 98, 772-788.	1.7	77
78	Application of immunomagnetic cell enrichment in combination with RT-PCR for the detection of rare circulating head and neck tumor cells in human peripheral blood. Cytometry Part B - Clinical Cytometry, 2007, 72B, 310-323.	0.7	54
79	The Sensitivity of the Dinoflagellate Crypthecodinium cohnii to Transient Hydrodynamic Forces and Cell-Bubble Interactions. Biotechnology Progress, 2007, 23, 1355-1362.	1.3	24
80	Negative selection of hematopoietic progenitor cells by continuous magnetophoresis. Experimental Hematology, 2007, 35, 662-672.	0.2	28
81	A novel high throughput immunomagnetic cell sorting system for potential clinical scale depletion of T cells for allogeneic stem cell transplantation. Experimental Hematology, 2007, 35, 1613-1622.	0.2	21
82	Continuous flow magnetic cell fractionation based on antigen expression level. Journal of Proteomics, 2006, 68, 1-21.	2.4	42
83	Comparison of two immunomagnetic separation technologies to deplete T cells from human blood samples. Biotechnology and Bioengineering, 2006, 94, 66-80.	1.7	35
84	Binding affinities/avidities of antibodyâ€“antigen interactions: Quantification and scale-up implications. Biotechnology and Bioengineering, 2006, 95, 812-829.	1.7	37
85	Hemoglobin degradation in malariaâ€infected erythrocytes determined from live cell magnetophoresis. FASEB Journal, 2006, 20, 747-749.	0.2	85
86	Quality determination of magnetic labeling reagents by cell magnetophoresis measurement. FASEB Journal, 2006, 20, A526.	0.2	0
87	Aeration, Mixing and Hydrodynamics in Bioreactors. Biotechnology and Bioprocessing Series, 2005, , 225-248.	0.0	2
88	Analysis of magnetic nanoparticles using quadrupole magnetic field-flow fractionation. Journal of Magnetism and Magnetic Materials, 2005, 293, 546-552.	1.0	51
89	Cell tracking velocimetry as a tool for defining saturation binding of magnetically conjugated antibodies. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2005, 66A, 103-108.	1.1	18
90	Establishment and implications of a characterization method for magnetic nanoparticle using cell tracking velocimetry and magnetic susceptibility modified solutions. Analyst, The, 2005, 130, 514.	1.7	56

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91	Magnetic Field-Flow Fractionation and Magnetic SPLITT. , 2005, , 1015-1018.		0
92	Bioprocess Equipment: Characterization of Energy Dissipation Rate and Its Potential to Damage Cells. Biotechnology Progress, 2004, 20, 1437-1448.	1.3	83
93	Enrichment of rare cancer cells through depletion of normal cells using density and flow-through, immunomagnetic cell separation. Experimental Hematology, 2004, 32, 891-904.	0.2	187
94	Evaluation of a contraction flow field on hydrodynamic damage to entomopathogenic nematodes?A biological pest control agent. Biotechnology and Bioengineering, 2004, 86, 96-107.	1.7	22
95	Control of Magnetophoretic Mobility by Susceptibility-Modified Solutions As Evaluated by Cell Tracking Velocimetry and Continuous Magnetic Sorting. Analytical Chemistry, 2004, 76, 3899-3907.	3.2	32
96	Characterization of antibody binding to three cancer-related antigens using flow cytometry and cell tracking velocimetry. Biotechnology and Bioengineering, 2003, 82, 340-351.	1.7	25
97	Magnetophoretic Cell Sorting Is a Function of Antibody Binding Capacity. Biotechnology Progress, 2003, 19, 899-907.	1.3	56
98	Magnetic Cell Separation:Â Characterization of Magnetophoretic Mobility. Analytical Chemistry, 2003, 75, 6868-6874.	3.2	240
99	Splitter Imperfections in Annular Split-Flow Thin Separation Channels:Â Experimental Study of Nonspecific Crossover. Analytical Chemistry, 2003, 75, 6687-6695.	3.2	14
100	Red Blood Cell Magnetophoresis. Biophysical Journal, 2003, 84, 2638-2645.	0.2	223
101	Pulse-injection studies of blood progenitor cells in a quadrupole magnet flow sorter. Separation Science and Technology, 2002, 37, 745-767.	1.3	23
102	SEPARATIONS BASED ON MAGNETOPHORETIC MOBILITY. Separation Science and Technology, 2002, 37, 3611-3633.	1.3	49
103	Fabrication and use of a transient contractional flow device to quantify the sensitivity of mammalian and insect cells to hydrodynamic forces. Biotechnology and Bioengineering, 2002, 80, 428-437.	1.7	128
104	Measurement of CD2 expression levels of IFN-?-treated fibrosarcomas using cell tracking velocimetry. Cytometry, 2001, 44, 137-147.	1.8	19
105	Mobility measurements of immunomagnetically labeled cells allow quantitation of secondary antibody binding amplification. Biotechnology and Bioengineering, 2001, 75, 642-655.	1.7	31
106	Separation of a Breast Cancer Cell Line from Human Blood Using a Quadrupole Magnetic Flow Sorter. Biotechnology Progress, 2001, 17, 1145-1155.	1.3	48
107	Progenitor cell isolation with a high-capacity quadrupole magnetic flow sorter. Journal of Magnetism and Magnetic Materials, 2001, 225, 277-284.	1.0	51
108	Study of hydrodynamics in microcarrier culture spinner vessels: A particle tracking velocimetry approach. , 2000, 49, 456-466.		47

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109	Cell damage of microcarrier cultures as a function of local energy dissipation created by a rapid extensional flow. , 2000, 69, 171-182.		85
110	Magnetophoretic mobilities correlate to antibody binding capacities. Cytometry, 2000, 40, 307-315.	1.8	58
111	Study of magnetic particles pulse-injected into an annular SPLITT-like channel inside a quadrupole magnetic field. Journal of Chromatography A, 2000, 903, 99-116.	1.8	45
112	Cell-Microcarrier Adhesion to Gas-Liquid Interfaces and Foam. Biotechnology Progress, 2000, 16, 125-132.	1.3	11
113	The use of magnetite-doped polymeric microspheres in calibrating cell tracking velocimetry. Journal of Proteomics, 2000, 44, 115-130.	2.4	48
114	An instrument to determine the magnetophoretic mobility of labeled, biological cells and paramagnetic particles. Journal of Magnetism and Magnetic Materials, 1999, 194, 231-241.	1.0	77
115	Continuous cell separation using novel magnetic quadrupole flow sorter. Journal of Magnetism and Magnetic Materials, 1999, 194, 224-230.	1.0	192
116	Quantification of cellular properties from external fields and resulting induced velocity: Cellular hydrodynamic diameter. , 1999, 64, 509-518.		21
117	Quantification of cellular properties from external fields and resulting induced velocity: Magnetic susceptibility. Biotechnology and Bioengineering, 1999, 64, 519-526.	1.7	37
118	Flow Rate Optimization for the Quadrupole Magnetic Cell Sorter. Analytical Chemistry, 1999, 71, 3799-3807.	3.2	73
119	Rapid Cell Isolation by Magnetic Flow Sorting for Applications in Tissue Engineering. ASAIO Journal, 1999, 45, 127-130.	0.9	16
120	Quantification of cellular properties from external fields and resulting induced velocity: Magnetic susceptibility. , 1999, 64, 519.		1
121	Quantification of cellular properties from external fields and resulting induced velocity: magnetic susceptibility. Biotechnology and Bioengineering, 1999, 64, 519-26.	1.7	12
122	Flow Through, Immunomagnetic Cell Separation. Biotechnology Progress, 1998, 14, 141-148.	1.3	121
123	Characterization of the Degradation of Polylactic Acid Polymer in a Solid Substrate Environment. Biotechnology Progress, 1998, 14, 517-526.	1.3	173
124	Theoretical analysis of cell separation based on cell surface marker density. Biotechnology and Bioengineering, 1998, 59, 10-20.	1.7	38
125	Continuous, flow-through immunomagnetic cell sorting in a quadrupole field. , 1998, 33, 469-475.		78
126	Lymphocyte fractionation using immunomagnetic colloid and a dipole magnet flow cell sorter. Journal of Proteomics, 1998, 37, 11-33.	2.4	61

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127	Gas Bubbles and Their Influence on Microorganisms. Applied Mechanics Reviews, 1998, 51, 113-120.	4.5	7
128	Theoretical analysis of cell separation based on cell surface marker density. Biotechnology and Bioengineering, 1998, 59, 10-20.	1.7	3
129	Confocal Microscopic Images of a Compost Particle. Biotechnology Progress, 1997, 13, 727-732.	1.3	5
130	Immunomagnetic isolation of magnetoferritin-labeled cells in a modified ferrograph. , 1996, 24, 251-259.		41
131	Determination of the magnetic susceptibility of labeled particles by video imaging. Chemical Engineering Science, 1996, 51, 947-956.	1.9	60
132	Shear sensitivity of insect cells. Cytotechnology, 1996, 20, 163-171.	0.7	25
133	Characterization of agitation environments in 250 ml spinner vessel, 3 L, and 20 L reactor vessels used for animal cell microcarrier culture. Cytotechnology, 1996, 22, 95-102.	0.7	15
134	ATP Measurement in Compost. Compost Science and Utilization, 1996, 4, 6-17.	1.2	23
135	Study of hydrodynamics in microcarrier culture spinner vessels: A particle tracking velocimetry approach. , 1996, 49, 456.		23
136	Characterization of a Bench-Scale System for Studying the Biodegradation of Organic Solid Wastes. Biotechnology Progress, 1995, 11, 443-451.	1.3	35
137	The protective effect of specific medium additives with respect to bubble rupture. Biotechnology and Bioengineering, 1995, 45, 473-480.	1.7	69
138	Thermodynamic approach to explain cell adhesion to air-medium interfaces. Biotechnology and Bioengineering, 1995, 48, 649-658.	1.7	32
139	Analytical Magnetapheresis of Ferritin-Labeled Lymphocytes. Analytical Chemistry, 1995, 67, 3702-3712.	3.2	112
140	Computer simulations of the rupture of a gas bubble at a gasâ€"liquid interface and its implications in animal cell damage. Chemical Engineering Science, 1994, 49, 2301-2320.	1.9	79
141	Quantification of damage to suspended insect cells as a result of bubble rupture. Biotechnology and Bioengineering, 1994, 43, 37-45.	1.7	88
142	Flow parameters associated with hydrodynamic cell injury. Biotechnology and Bioengineering, 1994, 44, 1089-1098.	1.7	65
143	Cell-Bubble Interactions.. Annals of the New York Academy of Sciences, 1992, 665, 219-229.	1.8	38
144	Microscopic visualization of insect cell-bubble interactions. I: Rising bubbles, air-medium interface, and the foam layer. Biotechnology Progress, 1991, 7, 140-150.	1.3	92

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145	Microscopic visualization of insect cell-bubble interactions. II: The bubble film and bubble rupture. Biotechnology Progress, 1991, 7, 151-158.	1.3	128
146	Biology Across the Curriculum: Preparing Students for a Career in the Life Sciences. , 0, , .		0