

# Michael L Shuler

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4627581/michael-l-shuler-publications-by-citations.pdf>

**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

148 papers	8,988 citations	46 h-index	92 g-index
157 ext. papers	10,214 ext. citations	5.2 avg, IF	6.52 L-index

#	Paper	IF	Citations
148	TEER measurement techniques for in vitro barrier model systems. <i>Journal of the Association for Laboratory Automation</i> , <b>2015</b> , 20, 107-26		870
147	Integration of cell culture and microfabrication technology. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 243-53	2.8	380
146	A microfluidic device for a pharmacokinetic-pharmacodynamic (PK-PD) model on a chip. <i>Lab on A Chip</i> , <b>2010</b> , 10, 446-55	7.2	353
145	A micro cell culture analog (microCCA) with 3-D hydrogel culture of multiple cell lines to assess metabolism-dependent cytotoxicity of anti-cancer drugs. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1385-94	7.2	347
144	Microfluidic blood-brain barrier model provides in vivo-like barrier properties for drug permeability screening. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 184-194	4.9	303
143	Multi-Organ toxicity demonstration in a functional human in vitro system composed of four organs. <i>Scientific Reports</i> , <b>2016</b> , 6, 20030	4.9	269
142	The design and fabrication of three-chamber microscale cell culture analog devices with integrated dissolved oxygen sensors. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 338-45	2.8	248
141	Microscale 3-D hydrogel scaffold for biomimetic gastrointestinal (GI) tract model. <i>Lab on A Chip</i> , <b>2011</b> , 11, 389-92	7.2	241
140	Oral exposure to polystyrene nanoparticles affects iron absorption. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 264-71	28.7	237
139	Development of a microscale cell culture analog to probe naphthalene toxicity. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 316-23	2.8	227
138	The kinetics of taxoid accumulation in cell suspension cultures of <i>Taxus</i> following elicitation with methyl jasmonate. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 62, 97-105	4.9	217
137	Characterization of Caco-2 and HT29-MTX cocultures in an in vitro digestion/cell culture model used to predict iron bioavailability. <i>Journal of Nutritional Biochemistry</i> , <b>2009</b> , 20, 494-502	6.3	209
136	Microfabricated mammalian organ systems and their integration into models of whole animals and humans. <i>Lab on A Chip</i> , <b>2013</b> , 13, 1201-12	7.2	184
135	Body-on-a-chip simulation with gastrointestinal tract and liver tissues suggests that ingested nanoparticles have the potential to cause liver injury. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3081-92	7.2	183
134	Characterization of a gastrointestinal tract microscale cell culture analog used to predict drug toxicity. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 193-205	4.9	173
133	Pumpless microfluidic platform for drug testing on human skin equivalents. <i>Lab on A Chip</i> , <b>2015</b> , 15, 882-82	7.2	152
132	Design and demonstration of a pumpless 14 compartment microphysiological system. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2213-27	4.9	146

131	Human-on-a-chip design strategies and principles for physiologically based pharmacokinetics/pharmacodynamics modeling. <i>Integrative Biology (United Kingdom)</i> , <b>2015</b> , 7, 383-91	3.7	142
130	Incorporation of 3T3-L1 cells to mimic bioaccumulation in a microscale cell culture analog device for toxicity studies. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 590-7	2.8	137
129	Modular, pumpless body-on-a-chip platform for the co-culture of GI tract epithelium and 3D primary liver tissue. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2719-29	7.2	136
128	Production of biogenic Mn oxides by leptothrix discophora SS-1 in a chemically defined growth medium and evaluation of their Pb adsorption characteristics. <i>Applied and Environmental Microbiology</i> , <b>1999</b> , 65, 175-80	4.8	136
127	How multi-organ microdevices can help foster drug development. <i>Advanced Drug Delivery Reviews</i> , <b>2014</b> , 69-70, 158-69	18.5	125
126	Multi-cellular 3D human primary liver cell culture elevates metabolic activity under fluidic flow. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2269-77	7.2	121
125	Engineered bacterial outer membrane vesicles with enhanced functionality. <i>Journal of Molecular Biology</i> , <b>2008</b> , 380, 51-66	6.5	112
124	A novel system for evaluation of drug mixtures for potential efficacy in treating multidrug resistant cancers. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 187-98	4.9	111
123	Stimulation of ajmalicine production and excretion from <i>Catharanthus roseus</i> : effects of adsorption in situ, elicitors and alginate immobilization. <i>Applied Microbiology and Biotechnology</i> , <b>1989</b> , 30, 475	5.7	111
122	Using physiologically-based pharmacokinetic-guided "body-on-a-chip" systems to predict mammalian response to drug and chemical exposure. <i>Experimental Biology and Medicine</i> , <b>2014</b> , 239, 1225-39	3.7	103
121	Recent Advances in Body-on-a-Chip Systems. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 330-351	7.8	100
120	Prevention of air bubble formation in a microfluidic perfusion cell culture system using a microscale bubble trap. <i>Biomedical Microdevices</i> , <b>2009</b> , 11, 731-8	3.7	94
119	The effect of inoculum density and conditioned medium on the production of ajmalicine and catharanthine from immobilized <i>Catharanthus roseus</i> cells. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 61-71	4.9	86
118	Taxol production in bioreactors: Kinetics of biomass accumulation, nutrient uptake, and taxol production by cell suspensions of <i>Taxus baccata</i> . <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 47, 666-76	4.9	80
117	Modeling Barrier Tissues In Vitro: Methods, Achievements, and Challenges. <i>EBioMedicine</i> , <b>2016</b> , 5, 30-9	8.8	75
116	Release of periplasmic enzymes and other physiological effects of beta-lactamase overproduction in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , <b>1988</b> , 32, 741-8	4.9	71
115	Multi-organ system for the evaluation of efficacy and off-target toxicity of anticancer therapeutics. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	70
114	Multiorgan Microphysiological Systems for Drug Development: Strategies, Advances, and Challenges. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1701000	10.1	70

113	Lead binding to metal oxide and organic phases of natural aquatic biofilms. <i>Limnology and Oceanography</i> , <b>1999</b> , 44, 1715-1729	4.8	69
112	A recellularized human colon model identifies cancer driver genes. <i>Nature Biotechnology</i> , <b>2016</b> , 34, 845-851	4.5	67
111	In vitro microscale systems for systematic drug toxicity study. <i>Bioprocess and Biosystems Engineering</i> , <b>2010</b> , 33, 5-19	3.7	66
110	Interactions of microbial biofilms with toxic trace metals: 1. Observation and modeling of cell growth, attachment, and production of extracellular polymer. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 219-31	4.9	63
109	A pumpless body-on-a-chip model using a primary culture of human intestinal cells and a 3D culture of liver cells. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2036-2046	7.2	60
108	Taxol production in suspension cultures of <i>Taxus baccata</i> . <i>Plant Cell, Tissue and Organ Culture</i> , <b>1996</b> , 44, 95-102	2.7	56
107	Integration of in silico and in vitro platforms for pharmacokinetic-pharmacodynamic modeling. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2010</b> , 6, 1063-81	5.5	48
106	Inducing single-cell suspension of BTI-TN5B1-4 insect cells: I. The use of sulfated polyanions to prevent cell aggregation and enhance recombinant protein production. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 54, 191-205	4.9	48
105	UniChip enables long-term recirculating unidirectional perfusion with gravity-driven flow for microphysiological systems. <i>Lab on A Chip</i> , <b>2018</b> , 18, 2563-2574	7.2	47
104	Microtechnology for mimicking in vivo tissue environment. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1289-300	4.7	47
103	On the potential of in vitro organ-chip models to define temporal pharmacokinetic-pharmacodynamic relationships. <i>Scientific Reports</i> , <b>2019</b> , 9, 9619	4.9	46
102	Hg2+ removal by genetically engineered <i>Escherichia coli</i> in a hollow fiber bioreactor. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 667-71	2.8	46
101	Growth kinetics of <i>Pseudomonas putida</i> G7 on naphthalene and occurrence of naphthalene toxicity during nutrient deprivation. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 59, 587-594	4.9	46
100	Characterization of in vitro endothelial linings grown within microfluidic channels. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 2965-71	3.9	45
99	Self-contained, low-cost Body-on-a-Chip systems for drug development. <i>Experimental Biology and Medicine</i> , <b>2017</b> , 242, 1701-1713	3.7	43
98	Antibody-based surface plasmon resonance detection of intact viral pathogen. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 94, 815-9	4.9	43
97	Fluorescence optical detection in situ for real-time monitoring of cytochrome P450 enzymatic activity of liver cells in multiple microfluidic devices. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 516-25	4.9	40
96	Growth of endothelial cells on microfabricated silicon nitride membranes for an in vitro model of the blood-brain barrier. <i>Biotechnology and Bioprocess Engineering</i> , <b>2003</b> , 8, 246-251	3.1	40

95	Low-cost serum-free medium for the BTI-Tn5B1-4 insect cell line. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 573-582	2.8	39
94	Sensitivity Enhancement of Surface Plasmon Resonance Imaging Using Periodic Metallic Nanowires. <i>Journal of Lightwave Technology</i> , <b>2008</b> , 26, 1472-1478	4	38
93	Optimization of an assay for baculovirus titer and design of regimens for the synchronous infection of insect cells. <i>Biotechnology Progress</i> , <b>1997</b> , 13, 14-24	2.8	36
92	Fabrication of a multiple-diameter branched network of microvascular channels with semi-circular cross-sections using xenon difluoride etching. <i>Biomedical Microdevices</i> , <b>2008</b> , 10, 179-86	3.7	35
91	Effects of plasmid copy number and runaway plasmid replication on overproduction and excretion of beta-lactamase from <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , <b>1993</b> , 9, 31-9	2.8	34
90	Effect of iron concentration on the growth rate of <i>Pseudomonas syringae</i> and the expression of virulence factors in hrp-inducing minimal medium. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 2720-6	4.8	33
89	Microfluidic-Based Cell-Embedded Microgels Using Nonfluorinated Oil as a Model for the Gastrointestinal Niche. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9235-9246	9.5	32
88	Bioreactor considerations for secondary metabolite production from plant cell tissue culture: Indole alkaloids from <i>Catharanthus roseus</i> . <i>Biotechnology and Bioengineering</i> , <b>1988</b> , 31, 905-12	4.9	30
87	Trace metal interactions with microbial biofilms in natural and engineered systems. <i>Critical Reviews in Environmental Control</i> , <b>1988</b> , 17, 273-306		29
86	A combined pharmacokinetic-pharmacodynamic (PK-PD) model for tumor growth in the rat with UFT administration. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 1885-904	3.9	26
85	Glycosylation of a recombinant protein in the Tn5B1-4 insect cell line: influence of ammonia, time of harvest, temperature, and dissolved oxygen. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 63, 255-62	4.9	26
84	Toward in vitro models of brain structure and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13682-3	11.5	25
83	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 656-60	44.5	25
82	Modeling life. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1399-407	4.7	25
81	Use of Amphiphilic Polymer Particles for In Situ Extraction of Sorbed Phenanthrene from a Contaminated Aquifer Material. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 4133-4139	10.3	25
80	Mini-scale bioprocessing systems for highly parallel animal cell cultures. <i>Biotechnology Progress</i> , <b>2012</b> , 28, 595-607	2.8	24
79	Robust control of initiation of prokaryotic chromosome replication: essential considerations for a minimal cell. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 88, 575-84	4.9	24
78	A model of the binding, entry, uncoating, and RNA synthesis of Semliki Forest virus in baby hamster kidney (BHK-21) cells. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 46, 485-96	4.9	24

77	Differential Monocyte Actuation in a Three-Organ Functional Innate Immune System-on-a-Chip. <i>Advanced Science</i> , <b>2020</b> , 7, 2000323	13.6	23
76	Paclitaxel delivery to brain tumors from hydrogels: a computational study. <i>Biotechnology Progress</i> , <b>2011</b> , 27, 1478-87	2.8	23
75	Promises, challenges and future directions of microCCAs. <i>Journal of Biotechnology</i> , <b>2010</b> , 148, 64-9	3.7	23
74	Real-time fluorescence detection of multiple microscale cell culture analog devices in situ. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2007</b> , 71, 857-65	4.6	23
73	A self-priming microfluidic diaphragm pump capable of recirculation fabricated by combining soft lithography and traditional machining. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 85, 359-63	4.9	23
72	Influence of baculovirus-host cell interactions on complex N-linked glycosylation of a recombinant human protein. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 650-6	2.8	23
71	Strategies for using mathematical modeling approaches to design and interpret multi-organ microphysiological systems (MPS). <i>APL Bioengineering</i> , <b>2019</b> , 3, 021501	6.6	22
70	Effect of culture conditions on the degree of sialylation of a recombinant glycoprotein expressed in insect cells. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 739-49	2.8	22
69	Portable in situ fluorescence cytometry of microscale cell-based assays. <i>Optics Letters</i> , <b>2005</b> , 30, 1689-91	3.3	21
68	Production of a sialylated N-linked glycoprotein in insect cells. <i>Biotechnology Progress</i> , <b>2001</b> , 17, 822-7	2.8	21
67	A guide to the organ-on-a-chip. <i>Nature Reviews Methods Primers</i> , <b>2022</b> , 2,		21
66	Modeling a minimal cell. <i>Methods in Molecular Biology</i> , <b>2012</b> , 881, 573-610	1.4	20
65	Possible role of arachidonic acid in stress-induced cytochrome P450IA1 activity. <i>Biotechnology Progress</i> , <b>1996</b> , 12, 847-54	2.8	20
64	Interactions of microbial biofilms with toxic trace metals: 2. Prediction and verification of an integrated computer model of lead (II) distribution in the presence of microbial activity. <i>Biotechnology and Bioengineering</i> , <b>1994</b> , 44, 232-9	4.9	20
63	Continuous, high level production and excretion of a plasmid-encoded protein by Escherichia coli in a two-stage chemostat. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 41, 937-46	4.9	20
62	Microphysiological systems and low-cost microfluidic platform with analytics. <i>Stem Cell Research and Therapy</i> , <b>2013</b> , 4 Suppl 1, S9	8.3	19
61	Body-on-a chip: Using microfluidic systems to predict human responses to drugs. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 1635-1645	2.1	19
60	Towards the development of a minimal cell model by generalization of a model of Escherichia coli: use of dimensionless rate parameters. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 76, 187-92	4.9	19

59	Microscale-based modeling of polynuclear aromatic hydrocarbon transport and biodegradation in soil. <i>Biotechnology and Bioengineering</i> , <b>1996</b> , 51, 1-14	4.9	19
58	Induction of cytochrome P-450IA1 activity in response to sublethal stresses in microcarrier-attached Hep G2 cells. <i>Biotechnology Progress</i> , <b>1995</b> , 11, 659-63	2.8	19
57	Development of a stable dual cell-line GFP expression system to study estrogenic endocrine disruptors. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 101, 1276-87	4.9	18
56	Effect of silkworm hemolymph on N-linked glycosylation in two <i>Trichoplusia ni</i> insect cell lines. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 83, 695-705	4.9	17
55	Production, Secretion, and Stability of Human Secreted Alkaline Phosphatase in Tobacco NT1 Cell Suspension Cultures. <i>Biotechnology Progress</i> , <b>2006</b> , 22, 1643-1649	2.8	17
54	Development of disposable PDMS micro cell culture analog devices with photopolymerizable hydrogel encapsulating living cells. <i>Biomedical Microdevices</i> , <b>2012</b> , 14, 409-18	3.7	16
53	Effects of long-term passaging of BTI-Tn5B1-4 insect cells on growth and recombinant protein production. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 543-7	2.8	16
52	Production of a sialylated N-linked glycoprotein in insect cells: role of glycosidases and effect of harvest time on glycosylation. <i>Biotechnology Progress</i> , <b>2003</b> , 19, 193-201	2.8	16
51	Multiorgan microfluidic platform with breathable lung chamber for inhalation or intravenous drug screening and development. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 486-497	4.9	16
50	Quantification of chemical-polymer surface interactions in microfluidic cell culture devices. <i>Biotechnology Progress</i> , <b>2009</b> , 25, 543-51	2.8	15
49	The effect of various substrates on cell attachment and differentiation of 3T3-F442A preadipocytes. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 78, 454-8	4.9	15
48	A preliminary physiologically based pharmacokinetic model for naphthalene and naphthalene oxide in mice and rats. <i>Annals of Biomedical Engineering</i> , <b>1996</b> , 24, 305-20	4.7	15
47	Influence of culture medium supplementation of tobacco NT1 cell suspension cultures on the N-glycosylation of human secreted alkaline phosphatase. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 1585-93	4.9	14
46	New approach methodologies (NAMs) for human-relevant biokinetics predictions. Meeting the paradigm shift in toxicology towards an animal-free chemical risk assessment. <i>ALTEX: Alternatives To Animal Experimentation</i> , <b>2020</b> , 37, 607-622	4.3	14
45	Mimicking the Human Physiology with Microphysiological Systems (MPS). <i>Biochip Journal</i> , <b>2019</b> , 13, 115-126	4.2	13
44	Animal on a chip: a microscale cell culture analog device for evaluating toxicological and pharmacological profiles <b>2001</b> , 4560, 98		13
43	Kinetic analysis of the effects of plasmid multimerization on segregational instability of ColE1 type plasmids in <i>Escherichia coli</i> B/r. <i>Biotechnology and Bioengineering</i> , <b>1991</b> , 37, 1076-86	4.9	13
42	Development of a gastrointestinal tract microscale cell culture analog to predict drug transport. <i>MCB Molecular and Cellular Biomechanics</i> , <b>2008</b> , 5, 119-32	1.2	13

41	A genomically/chemically complete module for synthesis of lipid membrane in a minimal cell. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 97, 397-409	4.9	12
40	Effect of alkaline medium on the production and excretion of B-lactamase by <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , <b>1988</b> , 10, 377-382	3	12
39	Batch, fed-batch, and microcarrier cultures with CHO cell lines in a pressure-cycle driven miniaturized bioreactor. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 137-45	4.9	11
38	Use of mannosamine for inducing the addition of outer arm N-acetylglucosamine onto N-linked oligosaccharides of recombinant proteins in insect cells. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 168-73	2.8	11
37	Use of a simple mathematical model to predict the behavior of <i>Escherichia coli</i> overproducing beta-lactamase within continuous single- and two-stage reactor systems. <i>Biotechnology and Bioengineering</i> , <b>1993</b> , 42, 557-70	4.9	11
36	Body-on-a-chip systems for animal-free toxicity testing. <i>ATLA Alternatives To Laboratory Animals</i> , <b>2016</b> , 44, 469-478	2.1	11
35	Application of chemical reaction engineering principles to 'body-on-a-chip' systems. <i>AIChE Journal</i> , <b>2018</b> , 64, 4351-4360	3.6	11
34	Sensitivity and control analysis of periodically forced reaction networks using the Green's function method. <i>Journal of Theoretical Biology</i> , <b>2007</b> , 247, 442-61	2.3	10
33	Model of a Split-Flow Airlift Bioreactor for Attachment-Dependent, Baculovirus-Infected Insect Cells. <i>Biotechnology Progress</i> , <b>1995</b> , 11, 412-419	2.8	9
32	<i>Escherichia coli</i> host cell modifications in continuous culture affecting heterologous protein overproduction: a population dynamics study. <i>Biotechnology Progress</i> , <b>1992</b> , 8, 340-6	2.8	9
31	Multiple steady-state phenomena within enzyme reactors: The enzyme reaction with two substrates. <i>Biotechnology and Bioengineering</i> , <b>1981</b> , 23, 939-952	4.9	8
30	Increased Virus Production in Suspension Culture by a <i>Trichoplusia ni</i> Cell Line in Serum-Free Media. <i>Biotechnology Progress</i> , <b>1997</b> , 13, 805-809	2.8	7
29	Glycosylation profiles of the human colorectal cancer A33 antigen naturally expressed in the human colorectal cancer cell line SW1222 and expressed as recombinant protein in different insect cell lines. <i>Biotechnology Progress</i> , <b>2004</b> , 20, 1273-9	2.8	7
28	Independent prediction of naphthalene transport and biodegradation in soil with a mathematical model. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 65, 65-75	4.9	7
27	A simple model to predict the effectiveness of molecules that block attachment of human rhinoviruses and other viruses. <i>Biotechnology Progress</i> , <b>1995</b> , 11, 164-70	2.8	7
26	A Tissue Engineering Approach to Metastatic Colon Cancer. <i>iScience</i> , <b>2020</b> , 23, 101719	6.1	6
25	Biomedical Technologies for in vitro Screening and Controlled Delivery of Neuroactive Compounds. <i>Central Nervous System Agents in Medicinal Chemistry</i> , <b>2008</b> , 8, 203-219	1.8	6
24	Complex responses to culture conditions in <i>Pseudomonas syringae</i> pv. tomato DC3000 continuous cultures: the role of iron in cell growth and virulence factor induction. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 955-64	4.9	5

23	Rapid initiation of suspension cultures of <i>Trichoplusia ni</i> insect cells (TN 5B-1-4) using heparin. <i>Biotechnology Letters</i> , <b>1997</b> , 11, 237-240		5
22	Computer models of bacterial cells: from generalized coarsegrained to genome-specific modular models. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 46, 322-326	0.3	5
21	Expression of human epidermal growth factor by <i>Escherichia coli</i> in continuous culture. <i>Biotechnology Letters</i> , <b>1992</b> , 14, 339-344	3	5
20	Piezoelectric BioMEMS Cantilever for Measurement of Muscle Contraction and for Actuation of Mechanosensitive Cells. <i>MRS Communications</i> , <b>2019</b> , 9, 1186-1192	2.7	4
19	Development of a genetic system for a model manganese-oxidizing proteobacterium, <i>Leptothrix discophora</i> SS1. <i>Microbiology (United Kingdom)</i> , <b>2014</b> , 160, 2396-2405	2.9	4
18	Tissue factor-expressing tumor cells can bind to immobilized recombinant tissue factor pathway inhibitor under static and shear conditions in vitro. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123717	3.7	4
17	Pumpless, unidirectional microphysiological system for testing metabolism-dependent chemotherapeutic toxicity. <i>Biotechnology Progress</i> , <b>2021</b> , 37, e3105	2.8	4
16	A simple cell transport device keeps culture alive and functional during shipping. <i>Biotechnology Progress</i> , <b>2017</b> , 33, 1257-1266	2.8	3
15	Cell cycle progression in <i>Escherichia coli</i> B/r affects transcription of certain genes: Implications for synthetic genome design. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 102, 902-9	4.9	3
14	The use of lectins to select subpopulations of insect cells. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 64, 616-9	4.9	3
13	Cycling of Biogenic Mn-Oxides in a Model Microbial Predator-Prey System. <i>Geomicrobiology Journal</i> , <b>2006</b> , 23, 37-43	2.5	2
12	Engineering a Bioartificial Human Colon Model Through Decellularization and Recellularization. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1907, 91-102	1.4	2
11	The kinetics of taxoid accumulation in cell suspension cultures of <i>Taxus</i> following elicitation with methyl jasmonate <b>1999</b> , 62, 97		2
10	Lipid-gel and poly(dimethylsiloxane) film to mimic bioaccumulation in adipocytes. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 86, 643-9	4.9	1
9	Biologically-Inspired Microphysiological Systems <b>2019</b> , 279-285		1
8	Introduction to the special issue on micro- and nanofabrication techniques. <i>Annals of Biomedical Engineering</i> , <b>2012</b> , 40, 1209-10	4.7	
7	The measurement of effective substrate diffusivities within whole cell suspensions using a diffusion-limited hollow fibre reactor. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 31, 226-234		
6	On the possibility of stabilizing a simple negative feedback control system by increasing controller gain on a PID controller. <i>AIChE Journal</i> , <b>1979</b> , 25, 373-376	3.6	

- 5 Application of mucin and Caco-2/goblet cell co-cultures to refine the in vitro digestion/Caco-2 cell model for iron uptake. *FASEB Journal*, **2006**, 20, A624 0.9
- 4 Animal Surrogate Systems **2012**, 1-10
- 3 Adiponectin Expression in Liver, Omental Fat, and Peripheral Circulation in Morbidly Obese Patients Undergoing Roux-en-Y Gastric Bypass. *FASEB Journal*, **2013**, 27, 1153.12 0.9
- 2 Genotyped adipocytes to monitor adiponectin expression in response to environmental stressors. *FASEB Journal*, **2013**, 27, 1146.10 0.9
- 1 Body-on-a-chip BOAC: A tool to elucidate clinical observations that involve modulations of the Methylation pathway in association with the expression of adipokines. *FASEB Journal*, **2013**, 27, 1153.13<sup>0.9</sup>