Michael L Shuler

List of Publications by Year in Descending Order

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	A guide to the organ-on-a-chip. *Nature Reviews Methods Primers*, **2022**, 2,		21
147	Pumpless, unidirectional microphysiological system for testing metabolism-dependent chemotherapeutic toxicity. *Biotechnology Progress*, **2021**, 37, e3105	2.8	4
146	A Tissue Engineering Approach to Metastatic Colon Cancer. *IScience*, **2020**, 23, 101719	6.1	6
145	Differential Monocyte Actuation in a Three-Organ Functional Innate Immune System-on-a-Chip. *Advanced Science*, **2020**, 7, 2000323	13.6	23
144	New approach methodologies (NAMs) for human-relevant biokinetics predictions. Meeting the paradigm shift in toxicology towards an animal-free chemical risk assessment. *ALTEX: Alternatives To Animal Experimentation*, **2020**, 37, 607-622	4.3	14
143	Multiorgan microfluidic platform with breathable lung chamber for inhalation or intravenous drug screening and development. *Biotechnology and Bioengineering*, **2020**, 117, 486-497	4.9	16
142	Mimicking the Human Physiology with Microphysiological Systems (MPS). *Biochip Journal*, **2019**, 13, 115-126	4	13
141	On the potential of in vitro organ-chip models to define temporal pharmacokinetic-pharmacodynamic relationships. *Scientific Reports*, **2019**, 9, 9619	4.9	46
140	Strategies for using mathematical modeling approaches to design and interpret multi-organ microphysiological systems (MPS). *APL Bioengineering*, **2019**, 3, 021501	6.6	22
139	Multi-organ system for the evaluation of efficacy and off-target toxicity of anticancer therapeutics. *Science Translational Medicine*, **2019**, 11,	17.5	70
138	Piezoelectric BioMEMS Cantilever for Measurement of Muscle Contraction and for Actuation of Mechanosensitive Cells. *MRS Communications*, **2019**, 9, 1186-1192	2.7	4
137	Recent Advances in Body-on-a-Chip Systems. *Analytical Chemistry*, **2019**, 91, 330-351	7.8	100
136	Biologically-Inspired Microphysiological Systems **2019**, 279-285		1
135	Engineering a Bioartificial Human Colon Model Through Decellularization and Recellularization. *Methods in Molecular Biology*, **2019**, 1907, 91-102	1.4	2
134	Microfluidic-Based Cell-Embedded Microgels Using Nonfluorinated Oil as a Model for the Gastrointestinal Niche. *ACS Applied Materials & Interfaces*, **2018**, 10, 9235-9246	9.5	32
133	UniChip enables long-term recirculating unidirectional perfusion with gravity-driven flow for microphysiological systems. *Lab on A Chip*, **2018**, 18, 2563-2574	7.2	47
132	A pumpless body-on-a-chip model using a primary culture of human intestinal cells and a 3D culture of liver cells. *Lab on A Chip*, **2018**, 18, 2036-2046	7.2	60

131	Multiorgan Microphysiological Systems for Drug Development: Strategies, Advances, and Challenges. *Advanced Healthcare Materials*, **2018**, 7, 1701000	10.1	70
130	Application of chemical reaction engineering principles to 'body-on-a-chip' systems. *AICHE Journal*, **2018**, 64, 4351-4360	3.6	11
129	Self-contained, low-cost Body-on-a-Chip systems for drug development. *Experimental Biology and Medicine*, **2017**, 242, 1701-1713	3.7	43
128	A simple cell transport device keeps culture alive and functional during shipping. *Biotechnology Progress*, **2017**, 33, 1257-1266	2.8	3
127	Microfluidic blood-brain barrier model provides in vivo-like barrier properties for drug permeability screening. *Biotechnology and Bioengineering*, **2017**, 114, 184-194	4.9	303
126	Modular, pumpless body-on-a-chip platform for the co-culture of GI tract epithelium and 3D primary liver tissue. *Lab on A Chip*, **2016**, 16, 2719-29	7.2	136
125	Design and demonstration of a pumpless 14 compartment microphysiological system. *Biotechnology and Bioengineering*, **2016**, 113, 2213-27	4.9	146
124	Body-on-a-chip systems for animal-free toxicity testing. *ATLA Alternatives To Laboratory Animals*, **2016**, 44, 469-478	2.1	11
123	A recellularized human colon model identifies cancer driver genes. *Nature Biotechnology*, **2016**, 34, 845-51	44.5	67
122	Multi-Organ toxicity demonstration in a functional human in vitro system composed of four organs. *Scientific Reports*, **2016**, 6, 20030	4.9	269
121	Modeling Barrier Tissues In Vitro: Methods, Achievements, and Challenges. *EBioMedicine*, **2016**, 5, 30-9	8.8	75
120	Human-on-a-chip design strategies and principles for physiologically based pharmacokinetics/pharmacodynamics modeling. *Integrative Biology (United Kingdom)*, **2015**, 7, 383-91	3.7	142
119	Multi-cellular 3D human primary liver cell culture elevates metabolic activity under fluidic flow. *Lab on A Chip*, **2015**, 15, 2269-77	7.2	121
118	Pumpless microfluidic platform for drug testing on human skin equivalents. *Lab on A Chip*, **2015**, 15, 882-8	7.2	152
117	Comprehensive models of human primary and metastatic colorectal tumors in immunodeficient and immunocompetent mice by chemokine targeting. *Nature Biotechnology*, **2015**, 33, 656-60	44.5	25
116	TEER measurement techniques for in vitro barrier model systems. *Journal of the Association for Laboratory Automation*, **2015**, 20, 107-26		870
115	Tissue factor-expressing tumor cells can bind to immobilized recombinant tissue factor pathway inhibitor under static and shear conditions in vitro. *PLoS ONE*, **2015**, 10, e0123717	3.7	4
114	Toward in vitro models of brain structure and function. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13682-3	11.5	25

113	Development of a genetic system for a model manganese-oxidizing proteobacterium, Leptothrix discophora SS1. *Microbiology (United Kingdom)*, **2014**, 160, 2396-2405	2.9	4
112	Body-on-a-chip simulation with gastrointestinal tract and liver tissues suggests that ingested nanoparticles have the potential to cause liver injury. *Lab on A Chip*, **2014**, 14, 3081-92	7.2	183
111	Using physiologically-based pharmacokinetic-guided "body-on-a-chip" systems to predict mammalian response to drug and chemical exposure. *Experimental Biology and Medicine*, **2014**, 239, 1225-39	3.7	103
110	How multi-organ microdevices can help foster drug development. *Advanced Drug Delivery Reviews*, **2014**, 69-70, 158-69	18.5	125
109	Microphysiological systems and low-cost microfluidic platform with analytics. *Stem Cell Research and Therapy*, **2013**, 4 Suppl 1, S9	8.3	19
108	Microfabricated mammalian organ systems and their integration into models of whole animals and humans. *Lab on A Chip*, **2013**, 13, 1201-12	7.2	184
107	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	
106	Genotyped adipocytes to monitor adiponectin expression in response to environmental stressors. *FASEB Journal*, **2013**, 27, 1146.10	0.9	
105	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	0.9	
104	Batch, fed-batch, and microcarrier cultures with CHO cell lines in a pressure-cycle driven miniaturized bioreactor. *Biotechnology and Bioengineering*, **2012**, 109, 137-45	4.9	11
103	Modeling a minimal cell. *Methods in Molecular Biology*, **2012**, 881, 573-610	1.4	20
102	Oral exposure to polystyrene nanoparticles affects iron absorption. *Nature Nanotechnology*, **2012**, 7, 264-71	28.7	237
101	Modeling life. *Annals of Biomedical Engineering*, **2012**, 40, 1399-407	4.7	25
100	Mini-scale bioprocessing systems for highly parallel animal cell cultures. *Biotechnology Progress*, **2012**, 28, 595-607	2.8	24
99	Microtechnology for mimicking in vivo tissue environment. *Annals of Biomedical Engineering*, **2012**, 40, 1289-300	4.7	47
98	Introduction to the special issue on micro- and nanofabrication techniques. *Annals of Biomedical Engineering*, **2012**, 40, 1209-10	4.7	
97	Development of disposable PDMS micro cell culture analog devices with photopolymerizable hydrogel encapsulating living cells. *Biomedical Microdevices*, **2012**, 14, 409-18	3.7	16
96	Animal Surrogate Systems **2012**, 1-10		

95	Microscale 3-D hydrogel scaffold for biomimetic gastrointestinal (GI) tract model. *Lab on A Chip*, **2011**, 11, 389-92	7.2	241
94	Paclitaxel delivery to brain tumors from hydrogels: a computational study. *Biotechnology Progress*, **2011**, 27, 1478-87	2.8	23
93	Characterization of in vitro endothelial linings grown within microfluidic channels. *Tissue Engineering - Part A*, **2011**, 17, 2965-71	3.9	45
92	Body-on-a chip: Using microfluidic systems to predict human responses to drugs. *Pure and Applied Chemistry*, **2010**, 82, 1635-1645	2.1	19
91	A microfluidic device for a pharmacokinetic-pharmacodynamic (PK-PD) model on a chip. *Lab on A Chip*, **2010**, 10, 446-55	7.2	353
90	Integration of in silico and in vitro platforms for pharmacokinetic-pharmacodynamic modeling. *Expert Opinion on Drug Metabolism and Toxicology*, **2010**, 6, 1063-81	5.5	48
89	In vitro microscale systems for systematic drug toxicity study. *Bioprocess and Biosystems Engineering*, **2010**, 33, 5-19	3.7	66
88	Complex responses to culture conditions in Pseudomonas syringae pv. tomato DC3000 continuous cultures: the role of iron in cell growth and virulence factor induction. *Biotechnology and Bioengineering*, **2010**, 105, 955-64	4.9	5
87	Promises, challenges and future directions of microCCAs. *Journal of Biotechnology*, **2010**, 148, 64-9	3.7	23
86	Effect of iron concentration on the growth rate of Pseudomonas syringae and the expression of virulence factors in hrp-inducing minimal medium. *Applied and Environmental Microbiology*, **2009**, 75, 2720-6	4.8	33
85	A combined pharmacokinetic-pharmacodynamic (PK-PD) model for tumor growth in the rat with UFT administration. *Journal of Pharmaceutical Sciences*, **2009**, 98, 1885-904	3.9	26
84	Cell cycle progression in Escherichia coli B/r affects transcription of certain genes: Implications for synthetic genome design. *Biotechnology and Bioengineering*, **2009**, 102, 902-9	4.9	3
83	A novel system for evaluation of drug mixtures for potential efficacy in treating multidrug resistant cancers. *Biotechnology and Bioengineering*, **2009**, 103, 187-98	4.9	111
82	Characterization of a gastrointestinal tract microscale cell culture analog used to predict drug toxicity. *Biotechnology and Bioengineering*, **2009**, 104, 193-205	4.9	173
81	Fluorescence optical detection in situ for real-time monitoring of cytochrome P450 enzymatic activity of liver cells in multiple microfluidic devices. *Biotechnology and Bioengineering*, **2009**, 104, 516-25	4.9	40
80	Quantification of chemical-polymer surface interactions in microfluidic cell culture devices. *Biotechnology Progress*, **2009**, 25, 543-51	2.8	15
79	Prevention of air bubble formation in a microfluidic perfusion cell culture system using a microscale bubble trap. *Biomedical Microdevices*, **2009**, 11, 731-8	3.7	94
78	Characterization of Caco-2 and HT29-MTX cocultures in an in vitro digestion/cell culture model used to predict iron bioavailability. *Journal of Nutritional Biochemistry*, **2009**, 20, 494-502	6.3	209

77	A micro cell culture analog (microCCA) with 3-D hydrogel culture of multiple cell lines to assess metabolism-dependent cytotoxicity of anti-cancer drugs. *Lab on A Chip*, **2009**, 9, 1385-94	7.2	347
76	Sensitivity Enhancement of Surface Plasmon Resonance Imaging Using Periodic Metallic Nanowires. *Journal of Lightwave Technology*, **2008**, 26, 1472-1478	4	38
75	Engineered bacterial outer membrane vesicles with enhanced functionality. *Journal of Molecular Biology*, **2008**, 380, 51-66	6.5	112
74	Fabrication of a multiple-diameter branched network of microvascular channels with semi-circular cross-sections using xenon difluoride etching. *Biomedical Microdevices*, **2008**, 10, 179-86	3.7	35
73	Development of a stable dual cell-line GFP expression system to study estrogenic endocrine disruptors. *Biotechnology and Bioengineering*, **2008**, 101, 1276-87	4.9	18
72	Biomedical Technologies for in vitro Screening and Controlled Delivery of Neuroactive Compounds. *Central Nervous System Agents in Medicinal Chemistry*, **2008**, 8, 203-219	1.8	6
71	Development of a gastrointestinal tract microscale cell culture analog to predict drug transport. *MCB Molecular and Cellular Biomechanics*, **2008**, 5, 119-32	1.2	13
70	A genomically/chemically complete module for synthesis of lipid membrane in a minimal cell. *Biotechnology and Bioengineering*, **2007**, 97, 397-409	4.9	12
69	Influence of culture medium supplementation of tobacco NT1 cell suspension cultures on the N-glycosylation of human secreted alkaline phosphatase. *Biotechnology and Bioengineering*, **2007**, 97, 1585-93	4.9	14
68	Real-time fluorescence detection of multiple microscale cell culture analog devices in situ. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 857-65	4.6	23
67	Sensitivity and control analysis of periodically forced reaction networks using the Green's function method. *Journal of Theoretical Biology*, **2007**, 247, 442-61	2.3	10
66	The measurement of effective substrate diffusities within whole cell suspensions using a diffusion-limited hollow fibre reactor. *Journal of Chemical Technology and Biotechnology*, **2007**, 31, 226-234		
65	Antibody-based surface plasmon resonance detection of intact viral pathogen. *Biotechnology and Bioengineering*, **2006**, 94, 815-9	4.9	43
64	Cycling of Biogenic Mn-Oxides in a Model Microbial Predator-Prey System. *Geomicrobiology Journal*, **2006**, 23, 37-43	2.5	2
63	Computer models of bacterial cells: from generalized coarsegrained to genome-specific modular models. *Journal of Physics: Conference Series*, **2006**, 46, 322-326	0.3	5
62	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	
61	Production, Secretion, and Stability of Human Secreted Alkaline Phosphatase in Tobacco NT1 Cell Suspension Cultures. *Biotechnology Progress*, **2006**, 22, 1643-1649	2.8	17
60	Portable in situ fluorescence cytometry of microscale cell-based assays. *Optics Letters*, **2005**, 30, 1689-91	3	21

59	The design and fabrication of three-chamber microscale cell culture analog devices with integrated dissolved oxygen sensors. *Biotechnology Progress*, **2004**, 20, 338-45	2.8	248
58	Development of a microscale cell culture analog to probe naphthalene toxicity. *Biotechnology Progress*, **2004**, 20, 316-23	2.8	227
57	Incorporation of 3T3-L1 cells to mimic bioaccumulation in a microscale cell culture analog device for toxicity studies. *Biotechnology Progress*, **2004**, 20, 590-7	2.8	137
56	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. *Biotechnology Progress*, **2004**, 20, 1273-9	2.8	7
55	A self-priming microfluidic diaphragm pump capable of recirculation fabricated by combining soft lithography and traditional machining. *Biotechnology and Bioengineering*, **2004**, 85, 359-63	4.9	23
54	Lipid-gel and poly(dimethylsiloxane) film to mimic bioaccumulation in adipocytes. *Biotechnology and Bioengineering*, **2004**, 86, 643-9	4.9	1
53	Robust control of initiation of prokaryotic chromosome replication: essential considerations for a minimal cell. *Biotechnology and Bioengineering*, **2004**, 88, 575-84	4.9	24
52	Growth of endothelial cells on microfabricated silicon nitride membranes for anin vitro model of the blood-brain barrier. *Biotechnology and Bioprocess Engineering*, **2003**, 8, 246-251	3.1	40
51	Effect of silkworm hemolymph on N-linked glycosylation in two Trichoplusia ni insect cell lines. *Biotechnology and Bioengineering*, **2003**, 83, 695-705	4.9	17
50	Effect of culture conditions on the degree of sialylation of a recombinant glycoprotein expressed in insect cells. *Biotechnology Progress*, **2003**, 19, 739-49	2.8	22
49	Integration of cell culture and microfabrication technology. *Biotechnology Progress*, **2003**, 19, 243-53	2.8	380
48	Production of a sialylated N-linked glycoprotein in insect cells: role of glycosidases and effect of harvest time on glycosylation. *Biotechnology Progress*, **2003**, 19, 193-201	2.8	16
47	The effect of various substrates on cell attachment and differentiation of 3T3-F442A preadipocytes. *Biotechnology and Bioengineering*, **2002**, 78, 454-8	4.9	15
46	Towards the development of a minimal cell model by generalization of a model of Escherichia coli: use of dimensionless rate parameters. *Biotechnology and Bioengineering*, **2001**, 76, 187-92	4.9	19
45	Production of a sialylated N-linked glycoprotein in insect cells. *Biotechnology Progress*, **2001**, 17, 822-7	2.8	21
44	Animal on a chip: a microscale cell culture analog device for evaluating toxicological and pharmacological profiles **2001**, 4560, 98		13
43	The effect of inoculum density and conditioned medium on the production of ajmalicine and catharanthine from immobilized Catharanthus roseus cells. *Biotechnology and Bioengineering*, **2000**, 67, 61-71	4.9	86
42	Influence of baculovirus-host cell interactions on complex N-linked glycosylation of a recombinant human protein. *Biotechnology Progress*, **2000**, 16, 650-6	2.8	23

41	Use of Amphiphilic Polymer Particles for In Situ Extraction of Sorbed Phenanthrene from a Contaminated Aquifer Material. *Environmental Science & Technology*, **2000**, 34, 4133-4139	10.3	25
40	Use of mannosamine for inducing the addition of outer arm N-acetylglucosamine onto N-linked oligosaccharides of recombinant proteins in insect cells. *Biotechnology Progress*, **1999**, 15, 168-73	2.8	11
39	The kinetics of taxoid accumulation in cell suspension cultures of Taxus following elicitation with methyl jasmonate. *Biotechnology and Bioengineering*, **1999**, 62, 97-105	4.9	217
38	Glycosylation of a recombinant protein in the Tn5B1-4 insect cell line: influence of ammonia, time of harvest, temperature, and dissolved oxygen. *Biotechnology and Bioengineering*, **1999**, 63, 255-62	4.9	26
37	The use of lectins to select subpopulations of insect cells. *Biotechnology and Bioengineering*, **1999**, 64, 616-9	4.9	3
36	Independent prediction of naphthalene transport and biodegradation in soil with a mathematical model. *Biotechnology and Bioengineering*, **1999**, 65, 65-75	4.9	7
35	Lead binding to metal oxide and organic phases of natural aquatic biofilms. *Limnology and Oceanography*, **1999**, 44, 1715-1729	4.8	69
34	Production of biogenic Mn oxides by leptothrix discophora SS-1 in a chemically defined growth medium and evaluation of their Pb adsorption characteristics. *Applied and Environmental Microbiology*, **1999**, 65, 175-80	4.8	136
33	The kinetics of taxoid accumulation in cell suspension cultures of Taxus following elicitation with methyl jasmonate **1999**, 62, 97		2
32	Effects of long-term passaging of BTI-Tn5B1-4 insect cells on growth and recombinant protein production. *Biotechnology Progress*, **1998**, 14, 543-7	2.8	16
31	Low-cost serum-free medium for the BTI-Tn5B1-4 insect cell line. *Biotechnology Progress*, **1998**, 14, 573-9	2.8	39
30	Hg2+ removal by genetically engineered Escherichia coli in a hollow fiber bioreactor. *Biotechnology Progress*, **1998**, 14, 667-71	2.8	46
29	Growth kinetics of Pseudomonas putida G7 on naphthalene and occurrence of naphthalene toxicity during nutrient deprivation. *Biotechnology and Bioengineering*, **1998**, 59, 587-594	4.9	46
28	Optimization of an assay for baculovirus titer and design of regimens for the synchronous infection of insect cells. *Biotechnology Progress*, **1997**, 13, 14-24	2.8	36
27	Increased Virus Production in Suspension Culture by a Trichoplusia niCell Line in Serum-Free Media. *Biotechnology Progress*, **1997**, 13, 805-809	2.8	7
26	Rapid initiation of suspension cultures of Trichoplusia ni insect cells (TN 5B-1-4) using heparin. *Biotechnology Letters*, **1997**, 11, 237-240		5
25	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. *Biotechnology and Bioengineering*, **1997**, 54, 191-205	4.9	48
24	Microscale-based modeling of polynuclear aromatic hydrocarbon transport and biodegradation in soil. *Biotechnology and Bioengineering*, **1996**, 51, 1-14	4.9	19

23	A preliminary physiologically based pharmacokinetic model for naphthalene and naphthalene oxide in mice and rats. *Annals of Biomedical Engineering*, **1996**, 24, 305-20	4.7	15
22	Taxol production in suspension cultures of Taxus baccata. *Plant Cell, Tissue and Organ Culture*, **1996**, 44, 95-102	2.7	56
21	Possible role of arachidonic acid in stress-induced cytochrome P450IA1 activity. *Biotechnology Progress*, **1996**, 12, 847-54	2.8	20
20	A simple model to predict the effectiveness of molecules that block attachment of human rhinoviruses and other viruses. *Biotechnology Progress*, **1995**, 11, 164-70	2.8	7
19	Model of a Split-Flow Airlift Bioreactor for Attachment-Dependent, Baculovirus-Infected Insect Cells. *Biotechnology Progress*, **1995**, 11, 412-419	2.8	9
18	Induction of cytochrome P-450IA1 activity in response to sublethal stresses in microcarrier-attached Hep G2 cells. *Biotechnology Progress*, **1995**, 11, 659-63	2.8	19
17	A model of the binding, entry, uncoating, and RNA synthesis of Semliki Forest virus in baby hamster kidney (BHK-21) cells. *Biotechnology and Bioengineering*, **1995**, 46, 485-96	4.9	24
16	Taxol production in bioreactors: Kinetics of biomass accumulation, nutrient uptake, and taxol production by cell suspensions of Taxus baccata. *Biotechnology and Bioengineering*, **1995**, 47, 666-76	4.9	80
15	Interactions of microbial biofilms with toxic trace metals: 1. Observation and modeling of cell growth, attachment, and production of extracellular polymer. *Biotechnology and Bioengineering*, **1994**, 44, 219-31	4.9	63
14	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. *Biotechnology and Bioengineering*, **1994**, 44, 232-9	4.9	20
13	Continuous, high level production and excretion of a plasmid-encoded protein by Escherichia coli in a two-stage chemostat. *Biotechnology and Bioengineering*, **1993**, 41, 937-46	4.9	20
12	Use of a simple mathematical model to predict the behavior of Escherichia coli overproducing beta-lactamase within continuous single- and two-stage reactor systems. *Biotechnology and Bioengineering*, **1993**, 42, 557-70	4.9	11
11	Effects of plasmid copy number and runaway plasmid replication on overproduction and excretion of beta-lactamase from Escherichia coli. *Biotechnology Progress*, **1993**, 9, 31-9	2.8	34
10	Expression of human epidermal growth factor byEscherichia coli in continuous culture. *Biotechnology Letters*, **1992**, 14, 339-344	3	5
9	Escherichia coli host cell modifications in continuous culture affecting heterologous protein overproduction: a population dynamics study. *Biotechnology Progress*, **1992**, 8, 340-6	2.8	9
8	Kinetic analysis of the effects of plasmid multimerization on segregational instability of ColE1 type plasmids in Escherichia coli B/r. *Biotechnology and Bioengineering*, **1991**, 37, 1076-86	4.9	13
7	Stimulation of ajmalicine production and excretion from Catharanthus roseus: effects of adsorption in situ, elicitors and alginate immobilization. *Applied Microbiology and Biotechnology*, **1989**, 30, 475	5.7	111
6	Bioreactor considerations for secondary metabolite production from plant cell tissue culture: Indole alkaloids from Catharanthus roseus. *Biotechnology and Bioengineering*, **1988**, 31, 905-12	4.9	30

5	Release of periplasmic enzymes and other physiological effects of beta-lactamase overproduction in Escherichia coli. *Biotechnology and Bioengineering*, **1988**, 32, 741-8	4.9	71
4	Effect of alkaline medium on the production and excretion of B-lactamase byEscherichia coli. *Biotechnology Letters*, **1988**, 10, 377-382	3	12
3	Trace metal interactions with microbial biofilms in natural and engineered systems. *Critical Reviews in Environmental Control*, **1988**, 17, 273-306		29
2	Multiple steady-state phenomena within enzyme reactors: The enzyme reaction with two substrates. *Biotechnology and Bioengineering*, **1981**, 23, 939-952	4.9	8
1	On the possibility of stabilizing a simple negative feedback control system by increasing controller gain on a PID controller. *AICHE Journal*, **1979**, 25, 373-376	3.6	