Andrew J Daugulis

List of Publications by Year in Descending Order

162 papers	4,602 citations	39 h-index	57 g-index
165 ext. papers	4,810 ext. citations	5.3 avg, IF	5.9 L-index

#	Paper	IF	Citations
162	Self-regenerating tubing bioreactor for removal of toxic substrates: Operational strategies in response to severe dynamic loading conditions. *Science of the Total Environment*, **2020**, 723, 138019	10.2	0
161	Using poly(vinyldodecylimidazolium bromide) for the in-situ product recovery of n-butanol. *Biotechnology Progress*, **2020**, 36, e2926	2.8	1
160	Solid–liquid partitioning bioreactors for industrial wastewater treatment. *Advances in Chemical Engineering*, **2019**, 111-150	0.6	2
159	Characterization of transport through polymers for fracking fluid treatment and organic acid concentration in extractive membrane bioreactors. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 690-700	3.5	4
158	The biological treatment of synthetic fracking fluid in an extractive membrane bioreactor: Selective transport and biodegradation of hydrophobic and hydrophilic contaminants. *Journal of Hazardous Materials*, **2019**, 371, 734-742	12.8	8
157	Polymer extraction and ex situ biodegradation of xenobiotic contaminated soil: Modelling of the process concept. *Journal of Environmental Management*, **2019**, 230, 63-74	7.9	0
156	Thermodynamic affinity-based considerations for the rational selection of biphasic systems for microbial flavor and fragrance production. *Journal of Chemical Technology and Biotechnology*, **2018**, 93, 656-666	3.5	9
155	On the applicability of a hybrid bioreactor operated with polymeric tubing for the biological treatment of saline wastewater. *Science of the Total Environment*, **2017**, 599-600, 1056-1063	10.2	23
154	A novel continuous two-phase partitioning bioreactor operated with polymeric tubing: Performance validation for enhanced biological removal of toxic substrates. *Journal of Environmental Management*, **2017**, 187, 265-272	7.9	15
153	Treatment of synthetic tannery wastewater in a continuous two-phase partitioning bioreactor: Biodegradation of the organic fraction and chromium separation. *Journal of Cleaner Production*, **2017**, 152, 321-329	10.3	48
152	Imidazolium-based polyionic liquid absorbents for bioproduct recovery. *Green Chemistry*, **2017**, 19, 5203-5213	10	15
151	Sequential anaerobic-aerobic decolourization of a real textile wastewater in a two-phase partitioning bioreactor. *Science of the Total Environment*, **2016**, 573, 585-593	10.2	26
150	Heavy metals species affect fungal-bacterial synergism during the bioremediation of fluoranthene. *Applied Microbiology and Biotechnology*, **2016**, 100, 7741-50	5.7	17
149	Effect of polymer molecular weight distribution on solute sequestration in two-phase partitioning bioreactors. *Chemical Engineering Journal*, **2016**, 299, 56-62	14.7	7
148	Towards a continuous two-phase partitioning bioreactor for xenobiotic removal. *Journal of Hazardous Materials*, **2016**, 317, 403-415	12.8	19
147	Xenobiotic removal from wastewater in a two-phase partitioning bioreactor: Process modelling and identification of operational strategies. *Chemical Engineering Journal*, **2016**, 296, 428-436	14.7	3
146	Isobutylene-rich imidazolium ionomers for use in two-phase partitioning bioreactors. *Green Chemistry*, **2016**, 18, 6586-6595	10	3

145	Rapid and effective decontamination of chlorophenol-contaminated soil by sorption into commercial polymers: concept demonstration and process modeling. *Journal of Environmental Management*, **2015**, 150, 81-91	7.9	15
144	Mass transfer considerations in solid–liquid two-phase partitioning bioreactors: a polymer selection guide. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 1391-1399	3.5	8
143	Selecting polymers for two-phase partitioning bioreactors (TPPBs): Consideration of thermodynamic affinity, crystallinity, and glass transition temperature. *Biotechnology Progress*, **2015**, 31, 1500-7	2.8	10
142	Biocompatibility of low molecular weight polymers for two-phase partitioning bioreactors. *Biotechnology and Bioengineering*, **2015**, 112, 2450-8	4.9	8
141	Transformation of ferulic acid to vanillin using a fed-batch solid-liquid two-phase partitioning bioreactor. *Biotechnology Progress*, **2014**, 30, 207-14	2.8	27
140	In situ product removal in fermentation systems: improved process performance and rational extractant selection. *Biotechnology Letters*, **2014**, 36, 443-60	3	57
139	Analysis of the performance and criteria for rational design of a sequencing batch reactor for xenobiotic removal. *Chemical Engineering Journal*, **2014**, 235, 167-175	14.7	9
138	The use of used automobile tyres in a partitioning bioreactor for the biodegradation of xenobiotic mixtures. *Environmental Technology (United Kingdom)*, **2014**, 35, 75-81	2.6	16
137	Effect of bioconversion conditions on vanillin production by Amycolatopsis sp. ATCC 39116 through an analysis of competing by-product formation. *Bioprocess and Biosystems Engineering*, **2014**, 37, 891-9	3.7	24
136	Strategies for improved bioproduction of benzaldehyde by Pichia pastoris and the use of hytrel as tubing material for integrated product removal by in situ pervaporation. *Biochemical Engineering Journal*, **2014**, 82, 97-104	4.2	10
135	A framework to predict and experimentally evaluate polymer–solute thermodynamic affinity for two-phase partitioning bioreactor (TPPB) applications. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 948-956	3.5	17
134	A comparison of three first principles methods for predicting solute–polymer affinity, and the simultaneous biodegradation of phenol and butyl acetate in a two-phase partitioning bioreactor. *Journal of Chemical Technology and Biotechnology*, **2014**, 89, 88-96	3.5	16
133	Block copolymers as sequestering phases in two-phase biotransformations: effect of constituent homopolymer properties on solute affinity. *Journal of Chemical Technology and Biotechnology*, **2014** , 89, 1304-1310	3.5	6
132	The use of high pressure CO2 -facilitated pH swings to enhance in situ product recovery of butyric acid in a two-phase partitioning bioreactor. *Biotechnology and Bioengineering*, **2014**, 111, 2183-91	4.9	7
131	Demonstration of in situ product recovery of butyric acid via CO2 -facilitated pH swings and medium development in two-phase partitioning bioreactors. *Biotechnology and Bioengineering*, **2014**, 111, 537-44	4.9	15
130	Production of 4-valerolactone by an equilibrium-limited transformation in a partitioning bioreactor: impact of absorptive polymer properties. *Bioprocess and Biosystems Engineering*, **2014**, 37, 533-42	3.7	4
129	Manipulating the composition of absorbent polymers affects product and by-product concentration profiles in the biphasic biotransformation of indene to cis-1,2-indandiol. *Biochemical Engineering Journal*, **2013**, 77, 7-14	4.2	8
128	Ex situ remediation of polluted soils by absorptive polymers, and a comparison of slurry and two-phase partitioning bioreactors for ultimate contaminant degradation. *Journal of Hazardous Materials*, **2013**, 262, 31-7	12.8	26

127	Two-Phase Partitioning Bioreactors **2013**, 185-205		1
126	Feasibility of operating a solid-liquid bioreactor with used automobile tires as the sequestering phase for the biodegradation of inhibitory compounds. *Journal of Environmental Management*, **2013**, 125, 7-11	7.9	13
125	Polymer characterization and optimization of conditions for the enhanced bioproduction of benzaldehyde by Pichia pastoris in a two-phase partitioning bioreactor. *Biotechnology and Bioengineering*, **2013**, 110, 1098-105	4.9	22
124	Simultaneous biodegradation of volatile and toxic contaminant mixtures by solid-liquid two-phase partitioning bioreactors. *Journal of Hazardous Materials*, **2013**, 254-255, 206-213	12.8	18
123	Ex Situ Bioremediation of Contaminated Soils: An Overview of Conventional and Innovative Technologies. *Critical Reviews in Environmental Science and Technology*, **2013**, 43, 2107-2139	11.1	73
122	The use of CO2 for reversible pH shifting, and the removal of succinic acid in a polymer-based two-phase partitioning bioreactor. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 42-50	3.5	12
121	A first principles approach to identifying polymers for use in two-phase partitioning bioreactors. *Journal of Chemical Technology and Biotechnology*, **2012**, 87, 1059-1065	3.5	22
120	Solid-liquid two-phase partitioning bioreactors (TPPBs) operated with waste polymers. Case study: 2,4-dichlorophenol biodegradation with used automobile tires as the partitioning phase. *Biotechnology Letters*, **2012**, 34, 2037-42	3	8
119	Recent advances in two-phase partitioning bioreactors for the treatment of volatile organic compounds. *Biotechnology Advances*, **2012**, 30, 1707-20	17.8	112
118	Substrate mass transport in two-phase partitioning bioreactors employing liquid and solid non-aqueous phases. *Bioprocess and Biosystems Engineering*, **2012**, 35, 1367-74	3.7	23
117	Passive/aggressive detoxification of continuous flow biotreatment systems using absorptive polymers: partitioning bioreactors treating transient phenol loadings. *Biotechnology Letters*, **2012**, 34, 1817-24	3	7
116	Two-phase partitioning bioreactors: the use of polymers for the in situ removal of ethanol. *Asia-Pacific Journal of Chemical Engineering*, **2012**, 7, S324-S328	1.3	1
115	2,4-Dichlorophenol removal in a solid-liquid two phase partitioning bioreactor (TPPB): kinetics of absorption, desorption and biodegradation. *New Biotechnology*, **2012**, 30, 44-50	6.4	19
114	The effects of polymer phase ratio and feeding strategy on solid-liquid TPPBs for the production of L-phenylacetylcarbinol from benzaldehyde using Candida utilis. *Biotechnology Letters*, **2011**, 33, 63-70	3	5
113	Overcoming substrate inhibition during biological treatment of monoaromatics: recent advances in bioprocess design. *Applied Microbiology and Biotechnology*, **2011**, 90, 1589-608	5.7	50
112	Biodegradation of VOC mixtures of different hydrophobicities in two-phase partitioning bioreactors containing tailored polymer mixtures. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 138-144	3.5	21
111	Medium composition effects on solute partitioning in solid□quid two-phase bioreactors. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 157-160	3.5	3
110	Characterization of absorbent polymers for the removal of volatile hydrophobic pollutants from air. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 47-53	3.5	25

109	Bioproduction of cis-(1S,2R)-indandiol, a chiral pharmaceutical intermediate, using a solid–liquid two-phase partitioning bioreactor for enhanced removal of inhibitors. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 1379-1385	3.5	11
108	Treatment of substituted phenol mixtures in single phase and two-phase solid-liquid partitioning bioreactors. *Journal of Hazardous Materials*, **2011**, 191, 190-5	12.8	33
107	Two-phase partitioning bioreactors operating with polymers applied to the removal of substituted phenols. *Environmental Science & Technology*, **2010**, 44, 7254-9	10.3	30
106	Estimating the cellular maintenance coefficient and its use in the design of two-phase partitioning bioscrubbers. *Bioprocess and Biosystems Engineering*, **2010**, 33, 731-9	3.7	2
105	Bioproduction of benzaldehyde in a solid-liquid two-phase partitioning bioreactor using Pichia pastoris. *Biotechnology Letters*, **2010**, 32, 1649-54	3	18
104	Mass transport and thermodynamic analysis of PAHs in partitioning systems in the presence and absence of ultrasonication. *AICHE Journal*, **2010**, 56, 2717-2726	3.6	2
103	A strategic approach for the design and operation of two-phase partitioning bioscrubbers for the treatment of volatile organic compounds. *Biotechnology Progress*, **2010**, 26, 1777-86	2.8	12
102	Enhanced degradation of phenanthrene in a solid-liquid two-phase partitioning bioreactor via sonication. *Biotechnology and Bioengineering*, **2010**, 105, 997-1001	4.9	5
101	A comparative study of solid and liquid non-aqueous phases for the biodegradation of hexane in two-phase partitioning bioreactors. *Biotechnology and Bioengineering*, **2010**, 106, 731-40	4.9	54
100	Application of solid-liquid TPPBs to the production of L-phenylacetylcarbinol from benzaldehyde using Candida utilis. *Biotechnology and Bioengineering*, **2010**, 107, 633-41	4.9	26
99	Polymer–solute interactions in solid–liquid two-phase partitioning bioreactors. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, 302-306	3.5	16
98	Bioremediation of phenol-contaminated water and soil using magnetic polymer beads. *Process Biochemistry*, **2010**, 45, 1582-1586	4.8	26
97	Model for a solid-liquid stirred tank two-phase partitioning bioscrubber for the treatment of BTEX. *Journal of Hazardous Materials*, **2010**, 175, 872-82	12.8	27
96	Removal of Xenobiotics from Wastewater in Sequencing Batch Reactors: Conventional and Two-Phase Configurations. *Environmental Pollution*, **2010**, 355-374	0	1
95	Model for a solid-liquid airlift two-phase partitioning bioscrubber for the treatment of BTEX. *Journal of Chemical Technology and Biotechnology*, **2009**, 85, n/a-n/a	3.5	1
94	A two-phase partitioning airlift bioreactor for the treatment of BTEX contaminated gases. *Biotechnology and Bioengineering*, **2009**, 103, 1077-86	4.9	36
93	Ultrasonically enhanced delivery and degradation of PAHs in a polymer-liquid partitioning system by a microbial consortium. *Biotechnology and Bioengineering*, **2009**, 104, 91-101	4.9	24
92	Bioproduction of the aroma compound 2-phenylethanol in a solid-liquid two-phase partitioning bioreactor system by Kluyveromyces marxianus. *Biotechnology and Bioengineering*, **2009**, 104, 332-9	4.9	96

91	Oxygen mass transfer and hydrodynamics in a multi-phase airlift bioscrubber system. *Chemical Engineering Science*, **2009**, 64, 4171-4177	4.4	11
90	Biodegradation of 4-nitrophenol in a two-phase system operating with polymers as the partitioning phase. *Environmental Science & Technology*, **2009**, 43, 7105-10	10.3	27
89	Remediation of PAH contaminated soils: application of a solid-liquid two-phase partitioning bioreactor. *Chemosphere*, **2008**, 73, 798-804	8.4	59
88	Response of a solid-liquid two-phase partitioning bioreactor to transient BTEX loadings. *Chemosphere*, **2008**, 73, 1453-60	8.4	36
87	Biodegradation of 4-nitrophenol in a two-phase sequencing batch reactor: concept demonstration, kinetics and modelling. *Applied Microbiology and Biotechnology*, **2008**, 80, 1105-12	5.7	39
86	Inhibitory effects of substrate and product on the carvone biotransformation activity of Rhodococcus erythropolis. *Biotechnology Letters*, **2008**, 30, 1245-50	3	2
85	Solid-liquid two-phase partitioning bioreactors for the treatment of gas-phase volatile organic carbons (VOCs) by a microbial consortium. *Biotechnology Letters*, **2008**, 30, 1583-7	3	20
84	Enhancement of PCB degradation by Burkholderia xenovorans LB400 in biphasic systems by manipulating culture conditions. *Biotechnology and Bioengineering*, **2008**, 99, 521-8	4.9	23
83	Biodegradation of PCBs in two-phase partitioning bioreactors following solid extraction from soil. *Biotechnology and Bioengineering*, **2008**, 99, 1273-80	4.9	28
82	Enhancement of biogenic sulfide production in a packed-bed bioreactor via critical inoculum design and carrier material selection. *Biotechnology and Bioengineering*, **2008**, 100, 855-63	4.9	13
81	Enhanced bioproduction of carvone in a two-liquid-phase partitioning bioreactor with a highly hydrophobic biocatalyst. *Biotechnology and Bioengineering*, **2008**, 101, 768-75	4.9	28
80	Improved reactor performance and operability in the biotransformation of carveol to carvone using a solid-liquid two-phase partitioning bioreactor. *Biotechnology and Bioengineering*, **2008**, 101, 946-56	4.9	44
79	On the use, and reuse, of polymers for the treatment of hydrocarbon contaminated water via a solid-liquid partitioning bioreactor. *Biotechnology Progress*, **2008**, 24, 839-44	2.8	22
78	A survey of bioengineering research in Canada-2007. *Biotechnology Progress*, **2008**, 24, 795-806	2.8	
77	Kinetics and interactions of BTEX compounds during degradation by a bacterial consortium. *Process Biochemistry*, **2008**, 43, 1068-1076	4.8	61
76	Bioavailability of PCBs in biphasic bioreactors. *Biochemical Engineering Journal*, **2008**, 38, 219-225	4.2	7
75	Solvent selection for enhanced bioproduction of 3-methylcatechol in a two-phase partitioning bioreactor. *Biotechnology and Bioengineering*, **2007**, 97, 536-43	4.9	18
74	A novel solid-liquid two-phase partitioning bioreactor for the enhanced bioproduction of 3-methylcatechol. *Biotechnology and Bioengineering*, **2007**, 98, 1008-16	4.9	35

73	Biodegradation of biphenyl in a solid□quid two-phase partitioning bioreactor. *Biochemical Engineering Journal*, **2007**, 36, 195-201	4.2	34
72	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber: Part I: Model development, parameter estimation, and parametric sensitivity. *Biochemical Engineering Journal*, **2007**, 36, 239-249	4.2	21
71	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber: Part II: Model calibration, validation, and predictions. *Biochemical Engineering Journal*, **2007**, 36, 250-261	4.2	18
70	Enhanced degradation of a mixture of polycyclic aromatic hydrocarbons by a defined microbial consortium in a two-phase partitioning bioreactor. *Biodegradation*, **2007**, 18, 211-21	4.1	48
69	Oxygen transfer in a gas□quid system containing solids of varying oxygen affinity. *Chemical Engineering Journal*, **2007**, 129, 67-74	14.7	48
68	Polymer Selection for Biphenyl Degradation in a Solid-Liquid Two-Phase Partitioning Bioreactor. *Biotechnology Progress*, **2007**, 23, 814-819	2.8	37
67	Polymer selection for biphenyl degradation in a solid-liquid two-phase partitioning bioreactor. *Biotechnology Progress*, **2007**, 23, 814-9	2.8	4
66	Biodegradation of a phenolic mixture in a solid-liquid two-phase partitioning bioreactor. *Applied Microbiology and Biotechnology*, **2006**, 72, 607-15	5.7	35
65	Transient performance of two-phase partitioning bioreactors treating a toluene contaminated gas stream. *Biotechnology and Bioengineering*, **2006**, 94, 448-57	4.9	55
64	Biphenyl degradation kinetics by Burkholderia xenovorans LB400 in two-phase partitioning bioreactors. *Chemosphere*, **2006**, 63, 972-9	8.4	26
63	Challenges in the expression of disulfide bonded, threonine-rich antifreeze proteins in bacteria and yeast. *Protein Expression and Purification*, **2006**, 47, 152-61	2	17
62	Benzene vapor treatment using a two-phase partitioning bioscrubber: an improved steady-state protocol to enhance long-term operation. *Bioprocess and Biosystems Engineering*, **2006**, 29, 229-40	3.7	14
61	Direct estimation of the oxygen requirements of Achromobacter xylosoxidans for aerobic degradation of monoaromatic hydrocarbons (BTEX) in a bioscrubber. *Biotechnology Letters*, **2006**, 28, 1293-8	3	31
60	Ex situ bioremediation of phenol contaminated soil using polymer beads. *Biotechnology Letters*, **2006**, 28, 2027-31	3	26
59	Transient performance of a two-phase partitioning bioscrubber treating a benzene-contaminated gas stream. *Environmental Science & Technology*, **2005**, 39, 8971-7	10.3	39
58	Interfacial effects in a two-phase partitioning bioreactor: degradation of polycyclic aromatic hydrocarbons (PAHs) by a hydrophobic Mycobacterium. *Process Biochemistry*, **2005**, 40, 1799-1805	4.8	87
57	Quantifying maintenance requirements from the steady-state operation of a two-phase partitioning bioscrubber. *Biotechnology and Bioengineering*, **2005**, 90, 248-58	4.9	17
56	A restructured framework for modeling oxygen transfer in two-phase partitioning bioreactors. *Biotechnology and Bioengineering*, **2005**, 91, 773-7	4.9	22

55	Enhanced biodegradation of phenol by a microbial consortium in a solid-liquid two phase partitioning bioreactor. *Biodegradation*, **2005**, 16, 329-39	4.1	90
54	Polymer development for enhanced delivery of phenol in a solid-liquid two-phase partitioning bioreactor. *Biotechnology Progress*, **2004**, 20, 1725-32	2.8	47
53	Delivery of benzene to Alcaligenes xylosoxidans by solid polymers in a two-phase partitioning bioreactor. *Biotechnology Letters*, **2003**, 25, 1203-7	3	28
52	Microbial degradation of high and low molecular weight polyaromatic hydrocarbons in a two-phase partitioning bioreactor by two strains of Sphingomonas sp. *Biotechnology Letters*, **2003**, 25, 1441-4	3	54
51	Removal and destruction of high concentrations of gaseous toluene in a two-phase partitioning bioreactor by Alcaligenes xylosoxidans. *Biotechnology Letters*, **2003**, 25, 1421-4	3	51
50	Addressing biofilter limitations: a two-phase partitioning bioreactor process for the treatment of benzene and toluene contaminated gas streams. *Biodegradation*, **2003**, 14, 415-21	4.1	35
49	A novel method of simulating oxygen mass transfer in two-phase partitioning bioreactors. *Biotechnology and Bioengineering*, **2003**, 83, 735-42	4.9	74
48	Degradation of xenobiotics in a partitioning bioreactor in which the partitioning phase is a polymer. *Biotechnology and Bioengineering*, **2003**, 84, 399-405	4.9	72
47	The use of Enterobacter cloacae ATCC 43560 in the development of a two-phase partitioning bioreactor for the destruction of hexahydro-1,3,5-trinitro-1,3,5-s-triazine (RDX). *Journal of Biotechnology*, **2003**, 100, 65-75	3.7	30
46	Scale-up performance of a partitioning bioreactor for the degradation of polyaromatic hydrocarbons by Sphingomonas aromaticivorans. *Biotechnology Letters*, **2002**, 24, 591-594	3	25
45	The effective approach for recovery of methyl-substituted 1,3-dioxane from aqueous media. *Separation Science and Technology*, **2002**, 37, 2659-2667	2.5	6
44	Benzene degradation in a two-phase partitioning bioreactor by Alcaligenes xylosoxidans Y234. *Process Biochemistry*, **2001**, 36, 765-772	4.8	46
43	Development of a novel bioreactor system for treatment of gaseous benzene. *Biotechnology and Bioengineering*, **2001**, 72, 156-65	4.9	69
42	A rational approach to improving productivity in recombinant Pichia pastoris fermentation. *Biotechnology and Bioengineering*, **2001**, 72, 1-11	4.9	111
41	The use of partitioning bioreactors for the treatment of high-concentration benzene solutions. *Canadian Journal of Chemical Engineering*, **2001**, 79, 785-790	2.3	4
40	A two-phase partitioning bioreactor system for treating benzene-contaminated soil. *Biotechnology Letters*, **2001**, 23, 467-473	3	9
39	Two-phase partitioning bioreactors: a new technology platform for destroying xenobiotics. *Trends in Biotechnology*, **2001**, 19, 457-62	15.1	193
38	Dynamic modeling and optimal fed-batch feeding strategies for a two-phase partitioning bioreactor. *Biotechnology and Bioengineering*, **2000**, 67, 224-33	4.9	28

37	Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. *FEBS Journal*, **2000**, 267, 6082-8		50
36	Modelling of a continuous two-phase partitioning bioreactor for the degradation of xenobiotics. *Process Biochemistry*, **2000**, 35, 1027-1035	4.8	16
35	Mixed-feed exponential feeding for fed-batch culture of recombinant methylotrophic yeast. *Biotechnology Letters*, **2000**, 22, 341-346	3	39
34	Treatment of high-concentration gaseous benzene streams using a novel bioreactor system. *Biotechnology Letters*, **2000**, 22, 1747-1751	3	17
33	Simultaneous biodegradation of benzene, toluene, and p-xylene in a two-phase partitioning bioreactor: concept demonstration and practical application. *Biotechnology Progress*, **1999**, 15, 74-80	2.8	26
32	The incidence of oscillatory behavior in the continuous fermentation of zymomonas mobilis. *Biotechnology Progress*, **1999**, 15, 667-80	2.8	46
31	Sorbitol as a non-repressing carbon source for fed-batch fermentation of recombinant Pichia pastoris. *Biotechnology Letters*, **1999**, 21, 669-672	3	42
30	A new method for the determination of microbial activity and critical logP in the presence of organic solvents. *Biotechnology Letters*, **1999**, 13, 549-553		7
29	Modeling and Simulation of Gas-Liquid-Liquid Extractive Cultivation Processes-Biodegradation of Xenobiotics. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **1998**, 31, 43-50		
28	Partitioning bioreactors. *Current Opinion in Biotechnology*, **1997**, 8, 169-74	11.4	54
27	Biodegradation of phenol at high initial concentrations in two-phase partitioning batch and fed-batch bioreactors. *Biotechnology and Bioengineering*, **1997**, 55, 155-62	4.9	80
26	Experimental investigation and modeling of oscillatory behavior in the continuous culture of Zymomonas mobilis. *Biotechnology and Bioengineering*, **1997**, 56, 99-105	4.9	51
25	Biodegradation of phenol at high initial concentrations in two-phase partitioning batch and fed-batch bioreactors **1997**, 55, 155		1
24	Dynamic modelling and performance optimization of an extractive fermentation. *Canadian Journal of Chemical Engineering*, **1996**, 74, 385-393	2.3	7
23	Use of a two phase partitioning bioreactor for the biodegradation of phenol. *Biotechnology Letters*, **1996**, 10, 643		27
22	Inhibition effects of ethanol concentration history and ethanol concentration change rate onZymomonas mobilis. *Biotechnology Letters*, **1995**, 17, 321-326	3	12
21	Protective effects of polymer additives on animal cells exposed to rapidly falling liquid films. *Biotechnology Progress*, **1995**, 11, 127-32	2.8	17
20	Evaluation of UNIFAC for the Prediction of Partitioning in Two-Phase Aqueous-Organic Systems Containing Amino Acids and Oligomers. *Biotechnology Progress*, **1995**, 11, 704-707	2.8	1

19	Integrated fermentation and recovery processes. *Current Opinion in Biotechnology*, **1994**, 5, 192-5	11.4	16
18	Salt effects in extraction of ethanol, 1-butanol and acetone from aqueous solutions. *AICHE Journal*, **1994**, 40, 1459-1465	3.6	69
17	Importance of enzyme and solvent physical properties for the biocompatibility relationship of alpha-amino acid ester hydrolase. *Enzyme and Microbial Technology*, **1993**, 15, 114-9	3.8	14
16	Liquid-liquid and vapour-liquid behaviour of oleyl alcohol applied to extractive fermentation processing. *Canadian Journal of Chemical Engineering*, **1993**, 71, 431-436	2.3	17
15	Enhancement and regulation of extracellular protein production by Bacillus brevis 47 through manipulation of cell culture conditions. *Biotechnology and Bioengineering*, **1992**, 40, 46-52	4.9	18
14	The economics of ethanol production by extractive fermentation. *Canadian Journal of Chemical Engineering*, **1991**, 69, 488-497	2.3	44
13	Solvent selection strategies for extractive biocatalysis. *Biotechnology Progress*, **1991**, 7, 116-24	2.8	215
12	Integrated product formation and recovery. *Current Opinion in Biotechnology*, **1991**, 2, 408-12	11.4	9
11	Liquid residence time distributions in immobilized cell bioreactors. *Biotechnology and Bioengineering*, **1989**, 33, 604-12	4.9	14
10	Stimulation of extracellular protein production in Bacillus brevis 47. *Applied Microbiology and Biotechnology*, **1989**, 31, 338	5.7	4
9	Integrated Reaction and Product Recovery in Bioreactor Systems. *Biotechnology Progress*, **1988**, 4, 113-122	2.8	50
8	Review of Liquid Mixing in Packed Bed Biological Reactors. *Biotechnology Progress*, **1988**, 4, 134-148	2.8	39
7	Process development of a prototype extractive fermentation system. *Annals of the New York Academy of Sciences*, **1987**, 506, 478-91	6.5	9
6	Examination of substrate and product inhibition kinetics on the production of ethanol by suspended and immobilized cell reactors. *Biotechnology and Bioengineering*, **1987**, 29, 639-45	4.9	27
5	Ethanol production by extractive fermentation solvent identification and prototype development. *Canadian Journal of Chemical Engineering*, **1986**, 64, 598-606	2.3	50
4	Screening and identification of extractive fermentation solvents using a database. *Canadian Journal of Chemical Engineering*, **1985**, 63, 919-927	2.3	59
3	Filament formation and ethanol production by Zymomonas mobilis in adsorbed cell bioreactors. *Biotechnology and Bioengineering*, **1985**, 27, 626-31	4.9	24
2	A Mathematical model for ethanol production by extractive fermentation in a continuous stirred tank fermentor. *Biotechnology and Bioengineering*, **1985**, 27, 1335-46	4.9	41