

# Andrew J Daugulis

## List of Publications by Year in descending order

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162  
papers

5,224  
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81889

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165  
docs citations

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times ranked

3095  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent selection strategies for extractive biocatalysis. <i>Biotechnology Progress</i> , 1991, 7, 116-124.	2.6	242
2	Two-phase partitioning bioreactors: a new technology platform for destroying xenobiotics. <i>Trends in Biotechnology</i> , 2001, 19, 457-462.	9.3	212
3	Recent advances in two-phase partitioning bioreactors for the treatment of volatile organic compounds. <i>Biotechnology Advances</i> , 2012, 30, 1707-1720.	11.7	139
4	A rational approach to improving productivity in recombinant <i>Pichia pastoris</i> fermentation. <i>Biotechnology and Bioengineering</i> , 2001, 72, 1-11.	3.3	122
5	Ex Situ Bioremediation of Contaminated Soils: An Overview of Conventional and Innovative Technologies. <i>Critical Reviews in Environmental Science and Technology</i> , 2013, 43, 2107-2139.	12.8	105
6	Bioproduction of the aroma compound 2-phenylethanol in a solid-liquid two-phase partitioning bioreactor system by <i>Kluyveromyces marxianus</i> . <i>Biotechnology and Bioengineering</i> , 2009, 104, 332-339.	3.3	104
7	Enhanced biodegradation of phenol by a microbial consortium in a solid-liquid two phase partitioning bioreactor. <i>Biodegradation</i> , 2005, 16, 329-339.	3.0	103
8	Biodegradation of phenol at high initial concentrations in two-phase partitioning batch and fed-batch bioreactors. , 1997, 55, 155-162.		100
9	Interfacial effects in a two-phase partitioning bioreactor: degradation of polycyclic aromatic hydrocarbons (PAHs) by a hydrophobic <i>Mycobacterium</i> . <i>Process Biochemistry</i> , 2005, 40, 1799-1805.	3.7	93
10	A novel method of simulating oxygen mass transfer in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2003, 83, 735-742.	3.3	78
11	Salt effects in extraction of ethanol, 1-butanol and acetone from aqueous solutions. <i>AIChE Journal</i> , 1994, 40, 1459-1465.	3.6	77
12	Development of a novel bioreactor system for treatment of gaseous benzene. <i>Biotechnology and Bioengineering</i> , 2001, 72, 156-165.	3.3	77
13	Degradation of xenobiotics in a partitioning bioreactor in which the partitioning phase is a polymer. <i>Biotechnology and Bioengineering</i> , 2003, 84, 399-405.	3.3	77
14	Kinetics and interactions of BTEX compounds during degradation by a bacterial consortium. <i>Process Biochemistry</i> , 2008, 43, 1068-1076.	3.7	73
15	In situ product removal in fermentation systems: improved process performance and rational extractant selection. <i>Biotechnology Letters</i> , 2014, 36, 443-460.	2.2	68
16	Microbial degradation of high and low molecular weight polyaromatic hydrocarbons in a two-phase partitioning bioreactor by two strains of <i>Sphingomonas</i> sp. <i>Biotechnology Letters</i> , 2003, 25, 1441-1444.	2.2	67
17	Remediation of PAH contaminated soils: Application of a solid-liquid two-phase partitioning bioreactor. <i>Chemosphere</i> , 2008, 73, 798-804.	8.2	65
18	Screening and identification of extractive fermentation solvents using a database. <i>Canadian Journal of Chemical Engineering</i> , 1985, 63, 919-927.	1.7	63

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19	A comparative study of solid and liquid non-aqueous phases for the biodegradation of hexane in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2010, 106, 731-740.	3.3	62
20	Treatment of synthetic tannery wastewater in a continuous two-phase partitioning bioreactor: Biodegradation of the organic fraction and chromium separation. <i>Journal of Cleaner Production</i> , 2017, 152, 321-329.	9.3	61
21	Experimental investigation and modeling of oscillatory behavior in the continuous culture of <i>Zymomonas mobilis</i> . , 1997, 56, 99-105.		59
22	Ethanol production by extractive fermentation – solvent identification and prototype development. <i>Canadian Journal of Chemical Engineering</i> , 1986, 64, 598-606.	1.7	58
23	Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. <i>FEBS Journal</i> , 2000, 267, 6082-6088.	0.2	58
24	Removal and destruction of high concentrations of gaseous toluene in a two-phase partitioning bioreactor by <i>Alcaligenes xylosoxidans</i> . <i>Biotechnology Letters</i> , 2003, 25, 1421-1424.	2.2	58
25	Partitioning bioreactors. <i>Current Opinion in Biotechnology</i> , 1997, 8, 169-174.	6.6	57
26	Title is missing!. <i>Biotechnology Letters</i> , 1999, 21, 669-672.	2.2	57
27	Mixed-feed exponential feeding for fed-batch culture of recombinant methylotrophic yeast. <i>Biotechnology Letters</i> , 2000, 22, 341-346.	2.2	56
28	Integrated Reaction and Product Recovery in Bioreactor Systems. <i>Biotechnology Progress</i> , 1988, 4, 113-122.	2.6	55
29	Transient performance of two-phase partitioning bioreactors treating a toluene contaminated gas stream. <i>Biotechnology and Bioengineering</i> , 2006, 94, 448-457.	3.3	55
30	Overcoming substrate inhibition during biological treatment of monoaromatics: recent advances in bioprocess design. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 1589-1608.	3.6	53
31	The economics of ethanol production by extractive fermentation. <i>Canadian Journal of Chemical Engineering</i> , 1991, 69, 488-497.	1.7	52
32	Enhanced Degradation of a Mixture of Polycyclic Aromatic Hydrocarbons by a Defined Microbial Consortium in a Two-Phase Partitioning Bioreactor. <i>Biodegradation</i> , 2007, 18, 211-221.	3.0	51
33	Improved reactor performance and operability in the biotransformation of carveol to carveone using a solid-liquid two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2008, 101, 946-956.	3.3	51
34	The Incidence of Oscillatory Behavior in the Continuous Fermentation of <i>Zymomonas mobilis</i> . <i>Biotechnology Progress</i> , 1999, 15, 667-680.	2.6	50
35	Polymer Development for Enhanced Delivery of Phenol in a Solid-Liquid Two-Phase Partitioning Bioreactor. <i>Biotechnology Progress</i> , 2004, 20, 1725-1732.	2.6	50
36	Oxygen transfer in a gas-liquid system containing solids of varying oxygen affinity. <i>Chemical Engineering Journal</i> , 2007, 129, 67-74.	12.7	50

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37	Benzene degradation in a two-phase partitioning bioreactor by <i>Alcaligenes xylosoxidans</i> Y234. <i>Process Biochemistry</i> , 2001, 36, 765-772.	3.7	48
38	A Mathematical model for ethanol production by extractive fermentation in a continuous stirred tank fermentor. <i>Biotechnology and Bioengineering</i> , 1985, 27, 1335-1346.	3.3	46
39	Review of Liquid Mixing in Packed Bed Biological Reactors. <i>Biotechnology Progress</i> , 1988, 4, 134-148.	2.6	46
40	Addressing biofilter limitations: a two-phase partitioning bioreactor process for the treatment of benzene and toluene contaminated gas streams. <i>Biodegradation</i> , 2003, 14, 415-421.	3.0	40
41	Transient Performance of a Two-Phase Partitioning Bioscrubber Treating a Benzene-Contaminated Gas Stream. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8971-8977.	10.0	40
42	Biodegradation of 4-nitrophenol in a two-phase sequencing batch reactor: concept demonstration, kinetics and modelling. <i>Applied Microbiology and Biotechnology</i> , 2008, 80, 1105-1112.	3.6	40
43	A novel solid-liquid two-phase partitioning bioreactor for the enhanced bioproduction of 3-methylcatechol. <i>Biotechnology and Bioengineering</i> , 2007, 98, 1008-1016.	3.3	39
44	Use of a two phase partitioning bioreactor for the biodegradation of phenol. <i>Biotechnology Letters</i> , 1996, 10, 643.	0.5	38
45	A two-phase partitioning airlift bioreactor for the treatment of BTEX contaminated gases. <i>Biotechnology and Bioengineering</i> , 2009, 103, 1077-1086.	3.3	38
46	Two-Phase Partitioning Bioreactors Operating with Polymers Applied to the Removal of Substituted Phenols. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7254-7259.	10.0	38
47	Polymer Selection for Biphenyl Degradation in a Solid-Liquid Two-Phase Partitioning Bioreactor. <i>Biotechnology Progress</i> , 2007, 23, 814-819.	2.6	38
48	Biodegradation of biphenyl in a solid-liquid two-phase partitioning bioreactor. <i>Biochemical Engineering Journal</i> , 2007, 36, 195-201.	3.6	37
49	Biodegradation of a phenolic mixture in a solid-liquid two-phase partitioning bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 607-615.	3.6	36
50	Response of a solid-liquid two-phase partitioning bioreactor to transient BTEX loadings. <i>Chemosphere</i> , 2008, 73, 1453-1460.	8.2	36
51	Treatment of substituted phenol mixtures in single phase and two-phase solid-liquid partitioning bioreactors. <i>Journal of Hazardous Materials</i> , 2011, 191, 190-195.	12.4	36
52	Direct estimation of the oxygen requirements of <i>Achromobacter xylosoxidans</i> for aerobic degradation of monoaromatic hydrocarbons (BTEX) in a bioscrubber. <i>Biotechnology Letters</i> , 2006, 28, 1293-1298.	2.2	35
53	Simultaneous Biodegradation of Benzene, Toluene, and p-Xylene in a Two-Phase Partitioning Bioreactor: Concept Demonstration and Practical Application. <i>Biotechnology Progress</i> , 1999, 15, 74-80.	2.6	34
54	The use of 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). <i>Journal of Biotechnology</i> , 2003, 100, 65-75.	3.8	34

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55	Sequential anaerobic-aerobic decolourization of a real textile wastewater in a two-phase partitioning bioreactor. <i>Science of the Total Environment</i> , 2016, 573, 585-593.	8.0	34
56	Transformation of ferulic acid to vanillin using a fed-batch solid-liquid two-phase partitioning bioreactor. <i>Biotechnology Progress</i> , 2014, 30, 207-214.	2.6	33
57	Dynamic modeling and optimal fed-batch feeding strategies for a two-phase partitioning bioreactor. , 2000, 67, 224-233.		32
58	Delivery of benzene to <i>Alcaligenes xylosoxidans</i> by solid polymers in a two-phase partitioning bioreactor. <i>Biotechnology Letters</i> , 2003, 25, 1203-1207.	2.2	31
59	Effect of bioconversion conditions on vanillin production by <i>Amycolatopsis</i> sp. ATCC 39116 through an analysis of competing by-product formation. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 891-899.	3.4	31
60	Biphenyl degradation kinetics by <i>Burkholderia xenovorans</i> LB400 in two-phase partitioning bioreactors. <i>Chemosphere</i> , 2006, 63, 972-979.	8.2	30
61	Biodegradation of PCBs in two-phase partitioning bioreactors following solid extraction from soil. <i>Biotechnology and Bioengineering</i> , 2008, 99, 1273-1280.	3.3	30
62	Enhanced bioproduction of carvone in a two-liquid-phase partitioning bioreactor with a highly hydrophobic biocatalyst. <i>Biotechnology and Bioengineering</i> , 2008, 101, 768-775.	3.3	30
63	Model for a solid-liquid stirred tank two-phase partitioning bioscrubber for the treatment of BTEX. <i>Journal of Hazardous Materials</i> , 2010, 175, 872-882.	12.4	30
64	Examination of substrate and product inhibition kinetics on the production of ethanol by suspended and immobilized cell reactors. <i>Biotechnology and Bioengineering</i> , 1987, 29, 639-645.	3.3	29
65	Title is missing!. <i>Biotechnology Letters</i> , 2002, 24, 591-594.	2.2	29
66	Ex situ bioremediation of phenol contaminated soil using polymer beads. <i>Biotechnology Letters</i> , 2006, 28, 2027-2031.	2.2	29
67	Bioremediation of phenol-contaminated water and soil using magnetic polymer beads. <i>Process Biochemistry</i> , 2010, 45, 1582-1586.	3.7	29
68	Ex situ remediation of polluted soils by absorptive polymers, and a comparison of slurry and two-phase partitioning bioreactors for ultimate contaminant degradation. <i>Journal of Hazardous Materials</i> , 2013, 262, 31-37.	12.4	29
69	Solid state fermentation and fractionation of oat straw by <i>Basidiomycetes</i> . <i>European Journal of Applied Microbiology and Biotechnology</i> , 1983, 18, 120-123.	1.3	28
70	Filament formation and ethanol production by <i>Zymomonas mobilis</i> in adsorbed cell bioreactors. <i>Biotechnology and Bioengineering</i> , 1985, 27, 626-631.	3.3	28
71	Biodegradation of 4-Nitrophenol in a Two-Phase System Operating with Polymers as the Partitioning Phase. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7105-7110.	10.0	28
72	Application of solid-liquid TPPBs to the production of <i>p</i> -phenylacetylcarbinol from benzaldehyde using <i>Candida utilis</i> . <i>Biotechnology and Bioengineering</i> , 2010, 107, 633-641.	3.3	28

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73	Characterization of absorbent polymers for the removal of volatile hydrophobic pollutants from air. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 47-53.	3.2	26
74	On the applicability of a hybrid bioreactor operated with polymeric tubing for the biological treatment of saline wastewater. <i>Science of the Total Environment</i> , 2017, 599-600, 1056-1063.	8.0	26
75	Substrate mass transport in two-phase partitioning bioreactors employing liquid and solid non-aqueous phases. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1367-1374.	3.4	25
76	Heavy metals species affect fungal-bacterial synergism during the bioremediation of fluoranthene. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 7741-7750.	3.6	25
77	Treatment of high-concentration gaseous benzene streams using a novel bioreactor system. <i>Biotechnology Letters</i> , 2000, 22, 1747-1751.	2.2	24
78	Ultrasonically enhanced delivery and degradation of PAHs in a polymer-liquid partitioning system by a microbial consortium. <i>Biotechnology and Bioengineering</i> , 2009, 104, 91-101.	3.3	24
79	Imidazolium-based polyionic liquid absorbents for bioproduct recovery. <i>Green Chemistry</i> , 2017, 19, 5203-5213.	9.0	24
80	Enhancement of PCB degradation by <i>Burkholderia xenovorans</i> LB400 in biphasic systems by manipulating culture conditions. <i>Biotechnology and Bioengineering</i> , 2008, 99, 521-528.	3.3	23
81	A first principles approach to identifying polymers for use in two-phase partitioning bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1059-1065.	3.2	23
82	Liquid-liquid and vapour-liquid behaviour of oleyl alcohol applied to extractive fermentation processing. <i>Canadian Journal of Chemical Engineering</i> , 1993, 71, 431-436.	1.7	22
83	A restructured framework for modeling oxygen transfer in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2005, 91, 773-777.	3.3	22
84	On the use, and reuse, of polymers for the treatment of hydrocarbon contaminated water via a solid-liquid partitioning bioreactor. <i>Biotechnology Progress</i> , 2008, 24, 839-844.	2.6	22
85	Biodegradation of VOC mixtures of different hydrophobicities in two-phase partitioning bioreactors containing tailored polymer mixtures. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 138-144.	3.2	22
86	Polymer characterization and optimization of conditions for the enhanced bioproduction of benzaldehyde by <i>Pichia pastoris</i> in a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1098-1105.	3.3	22
87	Simultaneous biodegradation of volatile and toxic contaminant mixtures by solid-liquid two-phase partitioning bioreactors. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 206-213.	12.4	22
88	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber. <i>Biochemical Engineering Journal</i> , 2007, 36, 239-249.	3.6	21
89	Bioproduction of benzaldehyde in a solid-liquid two-phase partitioning bioreactor using <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2010, 32, 1649-1654.	2.2	21
90	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber. <i>Biochemical Engineering Journal</i> , 2007, 36, 250-261.	3.6	20

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91	Solid-liquid two-phase partitioning bioreactors for the treatment of gas-phase volatile organic carbons (VOCs) by a microbial consortium. <i>Biotechnology Letters</i> , 2008, 30, 1583-1587.	2.2	20
92	A framework to predict and experimentally evaluate polymer-solute thermodynamic affinity for two-phase partitioning bioreactor (TPPB) applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 948-956.	3.2	20
93	Towards a continuous two-phase partitioning bioreactor for xenobiotic removal. <i>Journal of Hazardous Materials</i> , 2016, 317, 403-415.	12.4	20
94	Challenges in the expression of disulfide bonded, threonine-rich antifreeze proteins in bacteria and yeast. <i>Protein Expression and Purification</i> , 2006, 47, 152-161.	1.3	19
95	Solvent selection for enhanced bioproduction of 3-methylcatechol in a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2007, 97, 536-543.	3.3	19
96	2,4-Dichlorophenol removal in a solid-liquid two phase partitioning bioreactor (TPPB): kinetics of absorption, desorption and biodegradation. <i>New Biotechnology</i> , 2012, 30, 44-50.	4.4	19
97	Enhancement and regulation of extracellular protein production by <i>Bacillus brevis</i> 47 through manipulation of cell culture conditions. <i>Biotechnology and Bioengineering</i> , 1992, 40, 46-52.	3.3	18
98	Quantifying maintenance requirements from the steady-state operation of a two-phase partitioning bioscrubber. <i>Biotechnology and Bioengineering</i> , 2005, 90, 248-258.	3.3	18
99	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. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 88-96.	3.2	18
100	Protective effects of polymer additives on animal cells exposed to rapidly falling liquid films. <i>Biotechnology Progress</i> , 1995, 11, 127-132.	2.6	17
101	Demonstration of in situ product recovery of butyric acid via CO <sub>2</sub> -facilitated pH swings and medium development in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2014, 111, 537-544.	3.3	17
102	The use of used automobile tyres in a partitioning bioreactor for the biodegradation of xenobiotic mixtures. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 75-81.	2.2	17
103	A novel continuous two-phase partitioning bioreactor operated with polymeric tubing: Performance validation for enhanced biological removal of toxic substrates. <i>Journal of Environmental Management</i> , 2017, 187, 265-272.	7.8	17
104	Integrated fermentation and recovery processes. <i>Current Opinion in Biotechnology</i> , 1994, 5, 192-195.	6.6	16
105	Modelling of a continuous two-phase partitioning bioreactor for the degradation of xenobiotics. <i>Process Biochemistry</i> , 2000, 35, 1027-1035.	3.7	16
106	Polymer-solute interactions in solid-liquid two-phase partitioning bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 302-306.	3.2	16
107	Rapid and effective decontamination of chlorophenol-contaminated soil by sorption into commercial polymers: Concept demonstration and process modeling. <i>Journal of Environmental Management</i> , 2015, 150, 81-91.	7.8	16
108	Inhibition effects of ethanol concentration history and ethanol concentration change rate on <i>Zymomonas mobilis</i> . <i>Biotechnology Letters</i> , 1995, 17, 321-326.	2.2	15

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109	Enhancement of biogenic sulfide production in a packed-bed bioreactor via critical inoculum design and carrier material selection. <i>Biotechnology and Bioengineering</i> , 2008, 100, 855-863.	3.3	15
110	Feasibility of operating a solid-liquid bioreactor with used automobile tires as the sequestering phase for the biodegradation of inhibitory compounds. <i>Journal of Environmental Management</i> , 2013, 125, 7-11.	7.8	15
111	Liquid residence time distributions in immobilized cell bioreactors. <i>Biotechnology and Bioengineering</i> , 1989, 33, 604-612.	3.3	14
112	Importance of enzyme and solvent physical properties for the biocompatibility relationship of L-amino acid ester hydrolase. <i>Enzyme and Microbial Technology</i> , 1993, 15, 114-119.	3.2	14
113	Benzene vapor treatment using a two-phase partitioning bioscrubber: an improved steady-state protocol to enhance long-term operation. <i>Bioprocess and Biosystems Engineering</i> , 2006, 29, 229-240.	3.4	14
114	A strategic approach for the design and operation of two-phase partitioning bioscrubbers for the treatment of volatile organic compounds. <i>Biotechnology Progress</i> , 2010, 26, 1777-1786.	2.6	14
115	Process Development of a Prototype Extractive Fermentation System. <i>Annals of the New York Academy of Sciences</i> , 1987, 506, 478-491.	3.8	13
116	The use of CO <sub>2</sub> for reversible pH shifting, and the removal of succinic acid in a polymer-based two-phase partitioning bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 42-50.	3.2	13
117	The biological treatment of synthetic fracking fluid in an extractive membrane bioreactor: Selective transport and biodegradation of hydrophobic and hydrophilic contaminants. <i>Journal of Hazardous Materials</i> , 2019, 371, 734-742.	12.4	13
118	A two-phase partitioning bioreactor system for treating benzene-contaminated soil. <i>Biotechnology Letters</i> , 2001, 23, 467-473.	2.2	12
119	Strategies for improved bioproduction of benzaldehyde by <i>Pichia pastoris</i> and the use of hytrel as tubing material for integrated product removal by in situ pervaporation. <i>Biochemical Engineering Journal</i> , 2014, 82, 97-104.	3.6	12
120	Integrated product formation and recovery. <i>Current Opinion in Biotechnology</i> , 1991, 2, 408-412.	6.6	11
121	Oxygen mass transfer and hydrodynamics in a multi-phase airlift bioscrubber system. <i>Chemical Engineering Science</i> , 2009, 64, 4171-4177.	3.8	11
122	Bioproduction of (1S,2R)-indandiol, a chiral pharmaceutical intermediate, using a solid-liquid two-phase partitioning bioreactor for enhanced removal of inhibitors. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 1379-1385.	3.2	11
123	Effect of polymer molecular weight distribution on solute sequestration in two-phase partitioning bioreactors. <i>Chemical Engineering Journal</i> , 2016, 299, 56-62.	12.7	11
124	Bioavailability of PCBs in biphasic bioreactors. <i>Biochemical Engineering Journal</i> , 2008, 38, 219-225.	3.6	10
125	Selecting polymers for two-phase partitioning bioreactors (TPPBs): Consideration of thermodynamic affinity, crystallinity, and glass transition temperature. <i>Biotechnology Progress</i> , 2015, 31, 1500-1507.	2.6	10
126	Thermodynamic affinity-based considerations for the rational selection of biphasic systems for microbial flavor and fragrance production. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 656-666.	3.2	10



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127	The use of high pressure CO <sub>2</sub> facilitated pH swings to enhance in situ product recovery of butyric acid in a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2183-2191.	3.3	9
128	Analysis of the performance and criteria for rational design of a sequencing batch reactor for xenobiotic removal. <i>Chemical Engineering Journal</i> , 2014, 235, 167-175.	12.7	9
129	Mass transfer considerations in solid-liquid two-phase partitioning bioreactors: a polymer selection guide. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1391-1399.	3.2	9
130	Title is missing!. <i>Biotechnology Letters</i> , 1999, 13, 549-553.	0.5	8
131	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. <i>Biotechnology Letters</i> , 2012, 34, 2037-2042.	2.2	8
132	Manipulating the composition of absorbent polymers affects product and by-product concentration profiles in the biphasic biotransformation of indene to cis-1,2-indandiol. <i>Biochemical Engineering Journal</i> , 2013, 77, 7-14.	3.6	8
133	Biocompatibility of low molecular weight polymers for two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2450-2458.	3.3	8
134	Dynamic modelling and performance optimization of an extractive fermentation. <i>Canadian Journal of Chemical Engineering</i> , 1996, 74, 385-393.	1.7	7
135	The effective approach for recovery of methyl-substituted 1,3-dioxane from aqueous media. <i>Separation Science and Technology</i> , 2002, 37, 2659-2667.	2.5	7
136	The effects of polymer phase ratio and feeding strategy on solid-liquid TPPBs for the production of l-phenylacetylcarbinol from benzaldehyde using <i>Candida utilis</i> . <i>Biotechnology Letters</i> , 2011, 33, 63-70.	2.2	7
137	Passive/aggressive detoxification of continuous flow biotreatment systems using absorptive polymers: partitioning bioreactors treating transient phenol loadings. <i>Biotechnology Letters</i> , 2012, 34, 1817-1824.	2.2	7
138	Inhibitory effects of substrate and product on the carvone biotransformation activity of <i>Rhodococcus erythropolis</i> . <i>Biotechnology Letters</i> , 2008, 30, 1245-1250.	2.2	6
139	Model for a solid-liquid airlift two-phase partitioning bioscrubber for the treatment of BTEX. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 173-184.	3.2	6
140	Block copolymers as sequestering phases in two-phase biotransformations: effect of constituent homopolymer properties on solute affinity. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1304-1310.	3.2	6
141	Polymer Selection for Biphenyl Degradation in a Solid-Liquid Two-Phase Partitioning Bioreactor. <i>Biotechnology Progress</i> , 2007, 23, 814-819.	2.6	6
142	Stimulation of extracellular protein production in <i>Bacillus brevis</i> 47. <i>Applied Microbiology and Biotechnology</i> , 1989, 31, 338.	3.6	5
143	Enhanced degradation of phenanthrene in a solid-liquid two-phase partitioning bioreactor via sonication. <i>Biotechnology and Bioengineering</i> , 2010, 105, 997-1001.	3.3	5
144	Characterization of transport through polymers for fracking fluid treatment and organic acid concentration in extractive membrane bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 690-700.	3.2	5

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145	The use of partitioning bioreactors for the treatment of high-concentration benzene solutions. Canadian Journal of Chemical Engineering, 2001, 79, 785-790.	1.7	4
146	Medium composition effects on solute partitioning in solid-liquid two-phase bioreactors. Journal of Chemical Technology and Biotechnology, 2011, 86, 157-160.	3.2	4
147	Production of 4-valerolactone by an equilibrium-limited transformation in a partitioning bioreactor: impact of absorptive polymer properties. Bioprocess and Biosystems Engineering, 2014, 37, 533-542.	3.4	4
148	Xenobiotic removal from wastewater in a two-phase partitioning bioreactor: Process modelling and identification of operational strategies. Chemical Engineering Journal, 2016, 296, 428-436.	12.7	4
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