Andrew J Daugulis

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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	Solvent selection strategies for extractive biocatalysis. <i>Biotechnology Progress</i> , 1991 , 7, 116-24	2.8	215
161	Two-phase partitioning bioreactors: a new technology platform for destroying xenobiotics. <i>Trends in Biotechnology</i> , 2001 , 19, 457-62	15.1	193
160	Recent advances in two-phase partitioning bioreactors for the treatment of volatile organic compounds. <i>Biotechnology Advances</i> , 2012 , 30, 1707-20	17.8	112
159	A rational approach to improving productivity in recombinant Pichia pastoris fermentation. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 1-11	4.9	111
158	Bioproduction of the aroma compound 2-phenylethanol in a solid-liquid two-phase partitioning bioreactor system by Kluyveromyces marxianus. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 332-9	4.9	96
157	Enhanced biodegradation of phenol by a microbial consortium in a solid-liquid two phase partitioning bioreactor. <i>Biodegradation</i> , 2005 , 16, 329-39	4.1	90
156	Interfacial effects in a two-phase partitioning bioreactor: degradation of polycyclic aromatic hydrocarbons (PAHs) by a hydrophobic Mycobacterium. <i>Process Biochemistry</i> , 2005 , 40, 1799-1805	4.8	87
155	Biodegradation of phenol at high initial concentrations in two-phase partitioning batch and fed-batch bioreactors. <i>Biotechnology and Bioengineering</i> , 1997 , 55, 155-62	4.9	80
154	A novel method of simulating oxygen mass transfer in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2003 , 83, 735-42	4.9	74
153	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	11.1	73
152	Degradation of xenobiotics in a partitioning bioreactor in which the partitioning phase is a polymer. <i>Biotechnology and Bioengineering</i> , 2003 , 84, 399-405	4.9	72
151	Development of a novel bioreactor system for treatment of gaseous benzene. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 156-65	4.9	69
150	Salt effects in extraction of ethanol, 1-butanol and acetone from aqueous solutions. <i>AICHE Journal</i> , 1994 , 40, 1459-1465	3.6	69
149	Kinetics and interactions of BTEX compounds during degradation by a bacterial consortium. <i>Process Biochemistry</i> , 2008 , 43, 1068-1076	4.8	61
148	Remediation of PAH contaminated soils: application of a solid-liquid two-phase partitioning bioreactor. <i>Chemosphere</i> , 2008 , 73, 798-804	8.4	59
147	Screening and identification of extractive fermentation solvents using a database. <i>Canadian Journal of Chemical Engineering</i> , 1985 , 63, 919-927	2.3	59
146	In situ product removal in fermentation systems: improved process performance and rational extractant selection. <i>Biotechnology Letters</i> , 2014 , 36, 443-60	3	57

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145	Transient performance of two-phase partitioning bioreactors treating a toluene contaminated gas stream. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 448-57	4.9	55
144	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, 731-40	4.9	54
143	Partitioning bioreactors. <i>Current Opinion in Biotechnology</i> , 1997 , 8, 169-74	11.4	54
142	Microbial degradation of high and low molecular weight polyaromatic hydrocarbons in a two-phase partitioning bioreactor by two strains of Sphingomonas sp. <i>Biotechnology Letters</i> , 2003 , 25, 1441-4	3	54
141	Experimental investigation and modeling of oscillatory behavior in the continuous culture of Zymomonas mobilis. <i>Biotechnology and Bioengineering</i> , 1997 , 56, 99-105	4.9	51
140	Removal and destruction of high concentrations of gaseous toluene in a two-phase partitioning bioreactor by Alcaligenes xylosoxidans. <i>Biotechnology Letters</i> , 2003 , 25, 1421-4	3	51
139	Overcoming substrate inhibition during biological treatment of monoaromatics: recent advances in bioprocess design. <i>Applied Microbiology and Biotechnology</i> , 2011 , 90, 1589-608	5.7	50
138	Structure-function relationships in spruce budworm antifreeze protein revealed by isoform diversity. <i>FEBS Journal</i> , 2000 , 267, 6082-8		50
137	Ethanol production by extractive fermentation Isolvent identification and prototype development. <i>Canadian Journal of Chemical Engineering</i> , 1986 , 64, 598-606	2.3	50
136	Integrated Reaction and Product Recovery in Bioreactor Systems. <i>Biotechnology Progress</i> , 1988 , 4, 113-	1228	50
135	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	10.3	48
134	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, 211-21	4.1	48
133	Oxygen transfer in a gasIlquid system containing solids of varying oxygen affinity. <i>Chemical Engineering Journal</i> , 2007 , 129, 67-74	14.7	48
132	Polymer development for enhanced delivery of phenol in a solid-liquid two-phase partitioning bioreactor. <i>Biotechnology Progress</i> , 2004 , 20, 1725-32	2.8	47
131	Benzene degradation in a two-phase partitioning bioreactor by Alcaligenes xylosoxidans Y234. <i>Process Biochemistry</i> , 2001 , 36, 765-772	4.8	46
130	The incidence of oscillatory behavior in the continuous fermentation of zymomonas mobilis. <i>Biotechnology Progress</i> , 1999 , 15, 667-80	2.8	46
129	Improved reactor performance and operability in the biotransformation of carveol to carvone using a solid-liquid two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 946-56	4.9	44
128	The economics of ethanol production by extractive fermentation. <i>Canadian Journal of Chemical Engineering</i> , 1991 , 69, 488-497	2.3	44

127	Sorbitol as a non-repressing carbon source for fed-batch fermentation of recombinant Pichia pastoris. <i>Biotechnology Letters</i> , 1999 , 21, 669-672	3	42
126	A Mathematical model for ethanol production by extractive fermentation in a continuous stirred tank fermentor. <i>Biotechnology and Bioengineering</i> , 1985 , 27, 1335-46	4.9	41
125	Biodegradation of 4-nitrophenol in a two-phase sequencing batch reactor: concept demonstration, kinetics and modelling. <i>Applied Microbiology and Biotechnology</i> , 2008 , 80, 1105-12	5.7	39
124	Transient performance of a two-phase partitioning bioscrubber treating a benzene-contaminated gas stream. <i>Environmental Science & Environmental Scien</i>	10.3	39
123	Mixed-feed exponential feeding for fed-batch culture of recombinant methylotrophic yeast. <i>Biotechnology Letters</i> , 2000 , 22, 341-346	3	39
122	Review of Liquid Mixing in Packed Bed Biological Reactors. <i>Biotechnology Progress</i> , 1988 , 4, 134-148	2.8	39
121	Polymer Selection for Biphenyl Degradation in a Solid-Liquid Two-Phase Partitioning Bioreactor. <i>Biotechnology Progress</i> , 2007 , 23, 814-819	2.8	37
120	A two-phase partitioning airlift bioreactor for the treatment of BTEX contaminated gases. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1077-86	4.9	36
119	Response of a solid-liquid two-phase partitioning bioreactor to transient BTEX loadings. <i>Chemosphere</i> , 2008 , 73, 1453-60	8.4	36
118	A novel solid-liquid two-phase partitioning bioreactor for the enhanced bioproduction of 3-methylcatechol. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 1008-16	4.9	35
117	Biodegradation of a phenolic mixture in a solid-liquid two-phase partitioning bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2006 , 72, 607-15	5.7	35
116	Addressing biofilter limitations: a two-phase partitioning bioreactor process for the treatment of benzene and toluene contaminated gas streams. <i>Biodegradation</i> , 2003 , 14, 415-21	4.1	35
115	Biodegradation of biphenyl in a solid[Iquid two-phase partitioning bioreactor. <i>Biochemical Engineering Journal</i> , 2007 , 36, 195-201	4.2	34
114	Treatment of substituted phenol mixtures in single phase and two-phase solid-liquid partitioning bioreactors. <i>Journal of Hazardous Materials</i> , 2011 , 191, 190-5	12.8	33
113	Direct estimation of the oxygen requirements of Achromobacter xylosoxidans for aerobic degradation of monoaromatic hydrocarbons (BTEX) in a bioscrubber. <i>Biotechnology Letters</i> , 2006 , 28, 1293-8	3	31
112	Two-phase partitioning bioreactors operating with polymers applied to the removal of substituted phenols. <i>Environmental Science & Environmental Scien</i>	10.3	30
111	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). <i>Journal of Biotechnology</i> , 2003 , 100, 65-75	3.7	30
110	Biodegradation of PCBs in two-phase partitioning bioreactors following solid extraction from soil. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 1273-80	4.9	28

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109	Enhanced bioproduction of carvone in a two-liquid-phase partitioning bioreactor with a highly hydrophobic biocatalyst. <i>Biotechnology and Bioengineering</i> , 2008 , 101, 768-75	4.9	28
108	Delivery of benzene to Alcaligenes xylosoxidans by solid polymers in a two-phase partitioning bioreactor. <i>Biotechnology Letters</i> , 2003 , 25, 1203-7	3	28
107	Dynamic modeling and optimal fed-batch feeding strategies for a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2000 , 67, 224-33	4.9	28
106	Transformation of ferulic acid to vanillin using a fed-batch solid-liquid two-phase partitioning bioreactor. <i>Biotechnology Progress</i> , 2014 , 30, 207-14	2.8	27
105	Biodegradation of 4-nitrophenol in a two-phase system operating with polymers as the partitioning phase. <i>Environmental Science & Environmental & Envi</i>	10.3	27
104	Model for a solid-liquid stirred tank two-phase partitioning bioscrubber for the treatment of BTEX. <i>Journal of Hazardous Materials</i> , 2010 , 175, 872-82	12.8	27
103	Use of a two phase partitioning bioreactor for the biodegradation of phenol. <i>Biotechnology Letters</i> , 1996 , 10, 643		27
102	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, 639-45	4.9	27
101	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	10.2	26
100	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, 31-7	12.8	26
99	Application of solid-liquid TPPBs to the production of L-phenylacetylcarbinol from benzaldehyde using Candida utilis. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 633-41	4.9	26
98	Bioremediation of phenol-contaminated water and soil using magnetic polymer beads. <i>Process Biochemistry</i> , 2010 , 45, 1582-1586	4.8	26
97	Biphenyl degradation kinetics by Burkholderia xenovorans LB400 in two-phase partitioning bioreactors. <i>Chemosphere</i> , 2006 , 63, 972-9	8.4	26
96	Ex situ bioremediation of phenol contaminated soil using polymer beads. <i>Biotechnology Letters</i> , 2006 , 28, 2027-31	3	26
95	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	2.8	26
94	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	3.5	25
93	Scale-up performance of a partitioning bioreactor for the degradation of polyaromatic hydrocarbons by Sphingomonas aromaticivorans. <i>Biotechnology Letters</i> , 2002 , 24, 591-594	3	25
92	Effect of bioconversion conditions on vanillin production by Amycolatopsis sp. ATCC 39116 through an analysis of competing by-product formation. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 891-9	3.7	24

91	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	4.9	24
90	Solid state fermentation and fractionation of oat straw by Basidiomycetes. <i>European Journal of Applied Microbiology and Biotechnology</i> , 1983 , 18, 120-123		24
89	Filament formation and ethanol production by Zymomonas mobilis in adsorbed cell bioreactors. <i>Biotechnology and Bioengineering</i> , 1985 , 27, 626-31	4.9	24
88	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	10.2	23
87	Substrate mass transport in two-phase partitioning bioreactors employing liquid and solid non-aqueous phases. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 1367-74	3.7	23
86	Enhancement of PCB degradation by Burkholderia xenovorans LB400 in biphasic systems by manipulating culture conditions. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 521-8	4.9	23
85	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
84	Polymer characterization and optimization of conditions for the enhanced bioproduction of benzaldehyde by Pichia pastoris in a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1098-105	4.9	22
83	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, 839-44	2.8	22
82	A restructured framework for modeling oxygen transfer in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2005 , 91, 773-7	4.9	22
81	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	3.5	21
80	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber: Part I: Model development, parameter estimation, and parametric sensitivity. <i>Biochemical Engineering Journal</i> , 2007 , 36, 239-249	4.2	21
79	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, 1583-7	3	20
78	Towards a continuous two-phase partitioning bioreactor for xenobiotic removal. <i>Journal of Hazardous Materials</i> , 2016 , 317, 403-415	12.8	19
77	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	6.4	19
76	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	12.8	18
75	Bioproduction of benzaldehyde in a solid-liquid two-phase partitioning bioreactor using Pichia pastoris. <i>Biotechnology Letters</i> , 2010 , 32, 1649-54	3	18
74	Solvent selection for enhanced bioproduction of 3-methylcatechol in a two-phase partitioning bioreactor. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 536-43	4.9	18

73	Dynamic simulation of benzene vapor treatment by a two-phase partitioning bioscrubber: Part II: Model calibration, validation, and predictions. <i>Biochemical Engineering Journal</i> , 2007 , 36, 250-261	4.2	18
7 ²	Enhancement and regulation of extracellular protein production by Bacillus brevis 47 through manipulation of cell culture conditions. <i>Biotechnology and Bioengineering</i> , 1992 , 40, 46-52	4.9	18
71	Heavy metals species affect fungal-bacterial synergism during the bioremediation of fluoranthene. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7741-50	5.7	17
70	A framework to predict and experimentally evaluate polymersolute thermodynamic affinity for two-phase partitioning bioreactor (TPPB) applications. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 948-956	3.5	17
69	Challenges in the expression of disulfide bonded, threonine-rich antifreeze proteins in bacteria and yeast. <i>Protein Expression and Purification</i> , 2006 , 47, 152-61	2	17
68	Quantifying maintenance requirements from the steady-state operation of a two-phase partitioning bioscrubber. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 248-58	4.9	17
67	Treatment of high-concentration gaseous benzene streams using a novel bioreactor system. <i>Biotechnology Letters</i> , 2000 , 22, 1747-1751	3	17
66	Protective effects of polymer additives on animal cells exposed to rapidly falling liquid films. <i>Biotechnology Progress</i> , 1995 , 11, 127-32	2.8	17
65	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	2.3	17
64	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	2.6	16
63	A comparison of three first principles methods for predicting solutepolymer 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	3.5	16
62	PolymerBolute interactions in solidDquid two-phase partitioning bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2010 , 85, 302-306	3.5	16
61	Modelling of a continuous two-phase partitioning bioreactor for the degradation of xenobiotics. <i>Process Biochemistry</i> , 2000 , 35, 1027-1035	4.8	16
60	Integrated fermentation and recovery processes. Current Opinion in Biotechnology, 1994, 5, 192-5	11.4	16
59	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	7.9	15
58	Imidazolium-based polyionic liquid absorbents for bioproduct recovery. <i>Green Chemistry</i> , 2017 , 19, 520	3- <u>5</u> 213	15
57	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	7.9	15
56	Demonstration of in situ product recovery of butyric acid via CO2 -facilitated pH swings and medium development in two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 537-44	4.9	15

55	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, 229-40	3.7	14
54	Importance of enzyme and solvent physical properties for the biocompatibility relationship of alpha-amino acid ester hydrolase. <i>Enzyme and Microbial Technology</i> , 1993 , 15, 114-9	3.8	14
53	Liquid residence time distributions in immobilized cell bioreactors. <i>Biotechnology and Bioengineering</i> , 1989 , 33, 604-12	4.9	14
52	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	7.9	13
51	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, 855-63	4.9	13
50	The use of CO2 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	3.5	12
49	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, 1777-86	2.8	12
48	Inhibition effects of ethanol concentration history and ethanol concentration change rate onZymomonas mobilis. <i>Biotechnology Letters</i> , 1995 , 17, 321-326	3	12
47	Bioproduction of cis-(1S,2R)-indandiol, a chiral pharmaceutical intermediate, using a solid l iquid two-phase partitioning bioreactor for enhanced removal of inhibitors. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 1379-1385	3.5	11
46	Oxygen mass transfer and hydrodynamics in a multi-phase airlift bioscrubber system. <i>Chemical Engineering Science</i> , 2009 , 64, 4171-4177	4.4	11
45	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. <i>Biochemical Engineering Journal</i> , 2014 , 82, 97-104	4.2	10
44	Selecting polymers for two-phase partitioning bioreactors (TPPBs): Consideration of thermodynamic affinity, crystallinity, and glass transition temperature. <i>Biotechnology Progress</i> , 2015 , 31, 1500-7	2.8	10
43	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	14.7	9
42	A two-phase partitioning bioreactor system for treating benzene-contaminated soil. <i>Biotechnology Letters</i> , 2001 , 23, 467-473	3	9
41	Integrated product formation and recovery. Current Opinion in Biotechnology, 1991, 2, 408-12	11.4	9
40	Process development of a prototype extractive fermentation system. <i>Annals of the New York Academy of Sciences</i> , 1987 , 506, 478-91	6.5	9
39	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	3.5	9
38	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	4.2	8

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37	Mass transfer considerations in solid[Iquid two-phase partitioning bioreactors: a polymer selection guide. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1391-1399	3.5	8
36	Biocompatibility of low molecular weight polymers for two-phase partitioning bioreactors. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2450-8	4.9	8
35	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, 2037-42	3	8
34	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	12.8	8
33	Effect of polymer molecular weight distribution on solute sequestration in two-phase partitioning bioreactors. <i>Chemical Engineering Journal</i> , 2016 , 299, 56-62	14.7	7
32	The use of high pressure CO2 -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, 2183-91	4.9	7
31	Passive/aggressive detoxification of continuous flow biotreatment systems using absorptive polymers: partitioning bioreactors treating transient phenol loadings. <i>Biotechnology Letters</i> , 2012 , 34, 1817-24	3	7
30	Bioavailability of PCBs in biphasic bioreactors. <i>Biochemical Engineering Journal</i> , 2008 , 38, 219-225	4.2	7
29	A new method for the determination of microbial activity and critical logP in the presence of organic solvents. <i>Biotechnology Letters</i> , 1999 , 13, 549-553		7
28	Dynamic modelling and performance optimization of an extractive fermentation. <i>Canadian Journal of Chemical Engineering</i> , 1996 , 74, 385-393	2.3	7
27	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	3.5	6
26	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	6
25	The effects of polymer phase ratio and feeding strategy on solid-liquid TPPBs for the production of L-phenylacetylcarbinol from benzaldehyde using Candida utilis. <i>Biotechnology Letters</i> , 2011 , 33, 63-70	3	5
24	Enhanced degradation of phenanthrene in a solid-liquid two-phase partitioning bioreactor via sonication. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 997-1001	4.9	5
23	Production of 4-valerolactone by an equilibrium-limited transformation in a partitioning bioreactor: impact of absorptive polymer properties. <i>Bioprocess and Biosystems Engineering</i> , 2014 , 37, 533-42	3.7	4
22	The use of partitioning bioreactors for the treatment of high-concentration benzene solutions. <i>Canadian Journal of Chemical Engineering</i> , 2001 , 79, 785-790	2.3	4
21	Stimulation of extracellular protein production in Bacillus brevis 47. <i>Applied Microbiology and Biotechnology</i> , 1989 , 31, 338	5.7	4
20	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	3.5	4

19	Polymer selection for biphenyl degradation in a solid-liquid two-phase partitioning bioreactor. <i>Biotechnology Progress</i> , 2007 , 23, 814-9	2.8	4
18	Medium composition effects on solute partitioning in solid I quid two-phase bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 157-160	3.5	3
17	Xenobiotic removal from wastewater in a two-phase partitioning bioreactor: Process modelling and identification of operational strategies. <i>Chemical Engineering Journal</i> , 2016 , 296, 428-436	14.7	3
16	Isobutylene-rich imidazolium ionomers for use in two-phase partitioning bioreactors. <i>Green Chemistry</i> , 2016 , 18, 6586-6595	10	3
15	Estimating the cellular maintenance coefficient and its use in the design of two-phase partitioning bioscrubbers. <i>Bioprocess and Biosystems Engineering</i> , 2010 , 33, 731-9	3.7	2
14	Mass transport and thermodynamic analysis of PAHs in partitioning systems in the presence and absence of ultrasonication. <i>AICHE Journal</i> , 2010 , 56, 2717-2726	3.6	2
13	Inhibitory effects of substrate and product on the carvone biotransformation activity of Rhodococcus erythropolis. <i>Biotechnology Letters</i> , 2008 , 30, 1245-50	3	2
12	SolidIlquid partitioning bioreactors for industrial wastewater treatment. <i>Advances in Chemical Engineering</i> , 2019 , 111-150	0.6	2
11	Two-Phase Partitioning Bioreactors 2013 , 185-205		1
10	Two-phase partitioning bioreactors: the use of polymers for the in situ removal of ethanol. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, S324-S328	1.3	1
9	Model for a solid-liquid airlift two-phase partitioning bioscrubber for the treatment of BTEX. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 85, n/a-n/a	3.5	1
8	Evaluation of UNIFAC for the Prediction of Partitioning in Two-Phase Aqueous-Organic Systems Containing Amino Acids and Oligomers. <i>Biotechnology Progress</i> , 1995 , 11, 704-707	2.8	1
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