Sue T L Harrison

List of Publications by Year in Descending Order

179 papers	5,319 citations	34 h-index	68 g-index
185 ext. papers	5,971 ext. citations	4.4 avg, IF	6.12 L-index

#	Paper	IF	Citations
179	Towards recycling remediated cyanidation tailings water to the mineral biooxidation process Impact on microbial community and its performance. *Minerals Engineering*, **2022**, 176, 107359	4.9	
178	Kinetic data analysis and mathematical modeling of intra (wild type vs. engineered) and inter species (Saccharomyces cerevisiae vs. Zymomonas mobilis) dependency for bioethanol production from glucose, xylose or their combination. *Biochemical Engineering Journal*, **2022**, 177, 108229	4.2	
177	Using South African sulfide-enriched coal processing waste for amelioration of calcareous soil: A pre-feasibility study. *Minerals Engineering*, **2022**, 180, 107457	4.9	0
176	Ferrous iron oxidation kinetics of Acidiplasma cupricumulans, a key archaeon in the mineral biooxidation consortium: Impact of nutrient availability, ferric iron and thiocyanate. *Hydrometallurgy*, **2022**, 211, 105890	4	0
175	Thiocyanate and Organic Carbon Inputs Drive Convergent Selection for Specific Autotrophic and Strains Within Complex Microbiomes. *Frontiers in Microbiology*, **2021**, 12, 643368	5.7	3
174	Non-Hydrolyzable Plastics - An Interdisciplinary Look at Plastic Bio-Oxidation. *Trends in Biotechnology*, **2021**, 39, 12-23	15.1	31
173	Controlling product selectivity with nanoparticle composition in tandem chemo-biocatalytic styrene oxidation. *Green Chemistry*, **2021**, 23, 4170-4180	10	
172	Characterisation and prediction of acid rock drainage potential in waste rock: Value of integrating quantitative mineralogical and textural measurements. *Minerals Engineering*, **2021**, 163, 106750	4.9	3
171	Generic flowsheeting approach to obtain material and energy data for life-cycle assessment of cellulase production (submerged fermentation). *Bioresource Technology Reports*, **2020**, 11, 100549	4.1	0
170	Mathematical Modelling of Bioethanol Fermentation From Glucose, Xylose or Their Combination A Review. *ChemBioEng Reviews*, **2020**, 7, 68-88	5.2	5
169	Algal Lipids as Biocollector for Recovery of Coal from Fine Coal Waste by Froth Flotation. *Minerals (Basel, Switzerland)*, **2020**, 10, 70	2.4	3
168	Demonstration of simultaneous biological sulphate reduction and partial sulphide oxidation in a hybrid linear flow channel reactor. *Journal of Water Process Engineering*, **2020**, 34, 101143	6.7	8
167	On the feasibility of South African coal waste for production of abSoil a Technosol. *Minerals Engineering*, **2020**, 146, 106059	4.9	8
166	Mixing indices allow scale-up of stirred tank slurry reactor conditions for equivalent homogeneity. *Chemical Engineering Research and Design*, **2020**, 153, 865-874	5.5	5
165	Linking performance and microbial ecology in a biological sulphate reducing reactor system with biomass retention developed for the treatment of acid rock drainage. *Hydrometallurgy*, **2020**, 197, 105471	4	1
164	Desulphurising high sulphur coal discards using an accelerated heap leach approach. *Hydrometallurgy*, **2020**, 197, 105472	4	2
163	Effect of hydraulic residence time on biological sulphate reduction and elemental sulphur recovery in a single-stage hybrid linear flow channel reactor. *Biochemical Engineering Journal*, **2020**, 162, 107717	4.2	5

162	Stable Isotope Imprints during Pyrite Leaching: Implications for Acid Rock Drainage Characterization. *Minerals (Basel, Switzerland)*, **2020**, 10, 982	2.4	1
161	Effects of reactor geometry and electron donor on performance of the hybrid linear flow channel reactor. *Hydrometallurgy*, **2020**, 197, 105462	4	0
160	Biological pretreatment of carbonaceous matter in double refractory gold ores: A review and some future considerations. *Hydrometallurgy*, **2020**, 196, 105434	4	8
159	Cross-correlating analyses of mineral-associated microorganisms in an unsaturated packed bed flow-through column test; cell number, activity and EPS. *Research in Microbiology*, **2020**, 171, 222-229	4	2
158	Quantitative X-ray μCT Measurement of the Effect of Ore Characteristics on Non-Surface Mineral Grain Leaching. *Minerals (Basel, Switzerland)*, **2020**, 10, 746	2.4	3
157	Analysis of ethanol production from xylose using Pichia stipitis in microaerobic conditions through experimental observations and kinetic modelling. *Biochemical Engineering Journal*, **2020**, 164, 107754	4.2	7
156	A chemo-enzymatic oxidation cascade to activate C-H bonds with in situ generated HO. *Nature Communications*, **2019**, 10, 4178	17.4	37
155	Continuous bioleaching of arsenopyrite from mine tailings using an adapted mesophilic microbial culture. *Hydrometallurgy*, **2019**, 187, 187-194	4	16
154	Sequential pretreatment of double refractory gold ore (DRGO) with a thermophilic iron oxidizing archeaon and fungal crude enzymes. *Minerals Engineering*, **2019**, 138, 86-94	4.9	18
153	Effect of surfactant on the growth and activity of microorganisms in a heap bioleaching system. *Minerals Engineering*, **2019**, 138, 43-51	4.9	4
152	Yeast flocculation aids the performance of yeast dewatering using mini-hydrocyclones. *Separation and Purification Technology*, **2019**, 209, 159-163	8.3	15
151	Transformation of the carbonaceous matter in double refractory gold ore by crude lignin peroxidase released from the white-rot fungus. *International Biodeterioration and Biodegradation*, **2019**, 143, 104735	4.8	11
150	Supplementing structural integrity of waste rock piles through improved packing protocols to aid acid rock drainage prevention strategies. *Minerals Engineering*, **2019**, 135, 13-20	4.9	2
149	Implications of Sulfur Speciation on the Assessment of Acid Rock Drainage Generating Potential: A Study of South African Coal Processing Wastes. *Minerals (Basel, Switzerland)*, **2019**, 9, 776	2.4	3
148	Biochemical and structural insights into the cytochrome P450 reductase from Candida tropicalis. *Scientific Reports*, **2019**, 9, 20088	4.9	7
147	Co-disposal of benign desulfurised tailings with sulfidic waste rock to mitigate ARD generation: Influence of flow and contact surface. *Minerals Engineering*, **2018**, 116, 62-71	4.9	7
146	Energy requirements for the in-situ recovery of biobutanol via gas stripping. *Biochemical Engineering Journal*, **2018**, 139, 74-84	4.2	5
145	Influence of X-ray Computed Tomography on the microbial activity of a mixed thermophilic and mesophilic bioleaching culture colonising a mineral surface. *Biochemical Engineering Journal*, **2018**, 139, 123-131	4.2	

144	Bioleaching of arsenopyrite from Janggun mine tailings (South Korea) using an adapted mixed mesophilic culture. *Hydrometallurgy*, **2018**, 181, 21-28	4	15
143	Wastewater Biorefineries: Integrating Water Treatment and Value Recovery. *Green Energy and Technology*, **2018**, 289-302	0.6	7
142	Low-level thiocyanate concentrations impact on iron oxidation activity and growth of Leptospirillum ferriphilum through inhibition and adaptation. *Research in Microbiology*, **2018**, 169, 576-581	4	6
141	Ethanol from Biomass Hydrolysates by Efficient Fermentation of Glucose and Xylose □A Review. *ChemBioEng Reviews*, **2018**, 5, 294-311	5.2	13
140	Stratification of microbial communities throughout a biological sulphate reducing up-flow anaerobic packed bed reactor, revealed through 16S metagenomics. *Research in Microbiology*, **2018**, 169, 543-551	4	7
139	Generic flowsheeting approach to generating first estimate material and energy balance data for Life Cycle Assessment (LCA) of Penicillin V production. *Sustainable Production and Consumption*, **2018**, 15, 89-95	8.2	3
138	Determining an effective operating window for a thiocyanate-degrading mixed microbial community. *Journal of Environmental Chemical Engineering*, **2017**, 5, 660-666	6.8	1
137	Genome-Resolved Meta-Omics Ties Microbial Dynamics to Process Performance in Biotechnology for Thiocyanate Degradation. *Environmental Science & Technology*, **2017**, 51, 2944-2953	10.3	34
136	Genome-resolved metagenomics of a bioremediation system for degradation of thiocyanate in mine water containing suspended solid tailings. *MicrobiologyOpen*, **2017**, 6, e00446	3.4	17
135	Using isothermal microcalorimetry to measure the metabolic activity of the mineral-associated microbial community in bioleaching. *Minerals Engineering*, **2017**, 106, 33-38	4.9	6
134	Energy consumption due to mixing and mass transfer in a wave photobioreactor. *Algal Research*, **2017**, 24, 317-324	5	15
133	Spatial variations in leaching of a low-grade, low-porosity chalcopyrite ore identified using X-ray □T. *Minerals Engineering*, **2017**, 105, 63-68	4.9	14
132	Effect of cell permeability and dehydrogenase expression on octane activation by CYP153A6-based whole cell Escherichia coli catalysts. *Microbial Cell Factories*, **2017**, 16, 156	6.4	9
131	South African Coal Tailings Bioflotation for Desulphurization Using Mycobacterium phlei. *Solid State Phenomena*, **2017**, 262, 613-616	0.4	1
130	Linking Microbial Community Dynamics in BIOX□ Leaching Tanks to Process Conditions: Integrating Lab and Commercial Experience. *Solid State Phenomena*, **2017**, 262, 38-42	0.4	9
129	Investigating the Microbial Metabolic Activity on Mineral Surfaces of Pyrite-Rich Waste Rocks in an Unsaturated Heap-Simulating Column System. *Solid State Phenomena*, **2017**, 262, 228-232	0.4	1
128	Analysis of Microbial Communities Associated with Bioremediation Systems for Thiocyanate-Laden Mine Water Effluents. *Solid State Phenomena*, **2017**, 262, 601-604	0.4	
127	Inhibition Kinetics of Iron Oxidation by Leptospirillum ferriphilum to Residual Thiocyanate Present in Bioremediated Cyanidation Tailings Wastewater. *Solid State Phenomena*, **2017**, 262, 350-353	0.4	

126	Effect of X-Ray μCT Scanning on the Growth and Activity of Microorganisms in a Heap Bioleaching System. *Solid State Phenomena*, **2017**, 262, 143-146	0.4	
125	Modelling microbial transport in simulated low-grade heap bioleaching systems: The hydrodynamic dispersion model. *Chemical Engineering Science*, **2017**, 172, 545-558	4.4	7
124	Insight into solute and microbial transport in heap (bio)leaching systems using residence time distribution. *Hydrometallurgy*, **2017**, 168, 1-6	4	5
123	Application of fine desulfurised coal tailings as neutralising barriers in the prevention of acid rock drainage. *Hydrometallurgy*, **2017**, 168, 159-166	4	12
122	Investigating the Bioleaching of an Arsenic Mine Tailing Using a Mixed Mesophilic Culture. *Solid State Phenomena*, **2017**, 262, 668-672	0.4	2
121	Comparative Analysis of the Sulfate-Reducing Performance and Microbial Colonisation of Three Continuous Reactor Configurations with Varying Degrees of Biomass Retention. *Solid State Phenomena*, **2017**, 262, 638-642	0.4	
120	Insights into Ferric Leaching of Low Grade Metal Sulfide-Containing ores in an Unsaturated Ore Bed Using X-ray Computed Tomography. *Minerals (Basel, Switzerland)*, **2017**, 7, 85	2.4	8
119	Techno-economics of Algal Biodiesel. *Green Energy and Technology*, **2016**, 111-141	0.6	4
118	Generic flowsheet model for early inventory estimates of industrial microbial processes. II. Downstream processing. *South African Journal of Chemical Engineering*, **2016**, 22, 23-33	3.2	4
117	Electrical output of bryophyte microbial fuel cell systems is sufficient to power a radio or an environmental sensor. *Royal Society Open Science*, **2016**, 3, 160249	3.3	21
116	Generic flow sheet model for early inventory estimates of industrial microbial processes. I. Flowsheet development, microbial growth and product formation. *South African Journal of Chemical Engineering*, **2016**, 22, 34-43	3.2	3
115	Exploring the tension between energy consumption, light provision and CO2 mass transfer through varying gas velocity in the airlift bioreactor. *Algal Research*, **2016**, 19, 381-390	5	6
114	A mineralogical approach to evaluating laboratory scale acid rock drainage characterisation tests. *Minerals Engineering*, **2015**, 80, 33-36	4.9	16
113	Investigating the effect of acid stress on selected mesophilic micro-organisms implicated in bioleaching. *Minerals Engineering*, **2015**, 75, 6-13	4.9	11
112	Characterisation of the complex microbial community associated with the ASTER thiocyanate biodegradation system. *Minerals Engineering*, **2015**, 76, 65-71	4.9	30
111	Effect of physico-chemical and operating conditions on the growth and activity of Acidithiobacillus ferrooxidans in a simulated heap bioleaching environment. *Minerals Engineering*, **2015**, 75, 14-25	4.9	7
110	Anaerobic digestion of Spirulina sp. and Scenedesmus sp.: a comparison and investigation of the impact of mechanical pre-treatment. *Journal of Applied Phycology*, **2015**, 27, 1891-1900	3.2	7
109	A novel experimental system for the study of microbial ecology and mineral leaching within a simulated agglomerate-scale heap bioleaching system. *Biochemical Engineering Journal*, **2015**, 95, 86-97	4.2	17

108	The use of pyrite as a source of lixiviant in the bioleaching of electronic waste. *Hydrometallurgy*, **2015**, 152, 33-43	4	66
107	The Microbial Ecology of Moderately Thermophilic Mineral Leaching Reactors: The Effect of Solids Loading and Organic Carbon Supplementation on Reactor Performance. *Advanced Materials Research*, **2015**, 1130, 427-430	0.5	
106	Assessing Environmental Risks Associated with Ultrafine Coal Wastes Using Laboratory-Scale Tests. *Advanced Materials Research*, **2015**, 1130, 635-639	0.5	2
105	Enhancing ARD Mitigation by Application of Benign Tailings to Reduce the Permeability of Waste Rock Dumps. *Advanced Materials Research*, **2015**, 1130, 560-563	0.5	4
104	Bioreactor microbial ecosystems for thiocyanate and cyanide degradation unravelled with genome-resolved metagenomics. *Environmental Microbiology*, **2015**, 17, 4929-41	5.2	66
103	Magnetic resonance imaging characterisation of the influence of flowrate on liquid distribution in drip irrigated heap leaching. *Hydrometallurgy*, **2015**, 158, 157-164	4	13
102	Analysis of the Microbial Community Associated with a Bioprocess System for Bioremediation of Thiocyanate- and Cyanide-Laden Mine Water Effluents. *Advanced Materials Research*, **2015**, 1130, 614-617	0.5	2
101	Effect of thiocyanate on BIOX organisms: Inhibition and adaptation. *Minerals Engineering*, **2015**, 75, 110-115	4.9	12
100	Evaluation of the ASTERTM process in the presence of suspended solids. *Minerals Engineering*, **2015**, 76, 72-80	4.9	10
99	The effect of nitrogen limitation on lipid productivity and cell composition in Chlorella vulgaris. *Applied Microbiology and Biotechnology*, **2014**, 98, 2345-56	5.7	88
98	A novel microwell-based analytical technique for studying ferrous iron biooxidation activity. *Minerals Engineering*, **2014**, 60, 8-13	4.9	3
97	MRI and gravimetric studies of hydrology in drip irrigated heaps and its effect on the propagation of bioleaching micro-organisms. *Hydrometallurgy*, **2014**, 150, 210-221	4	23
96	Modelling microbial transport in simulated low-grade heap bioleaching systems: The biomass transport model. *Hydrometallurgy*, **2014**, 150, 299-307	4	5
95	Aeration energy requirements for lipid production by Scenedesmus sp. in airlift bioreactors. *Algal Research*, **2014**, 5, 249-257	5	24
94	The effect of degree and timing of nitrogen limitation on lipid productivity in Chlorella vulgaris. *Applied Microbiology and Biotechnology*, **2014**, 98, 6147-59	5.7	22
93	Microalgal Culture as a Feedstock for Bioenergy, Chemicals, and Nutrition **2014**, 577-590		
92	Effect of inoculum size on the rates of whole ore colonisation of mesophilic, moderate thermophilic and thermophilic acidophiles. *Hydrometallurgy*, **2014**, 149, 244-251	4	13
91	The influence of microbial physiology on biocatalyst activity and efficiency in the terminal hydroxylation of n-octane using Escherichia coli expressing the alkane hydroxylase, CYP153A6. *Microbial Cell Factories*, **2013**, 12, 8	6.4	22

90	Reactive oxygen species generated in the presence of fine pyrite particles and its implication in thermophilic mineral bioleaching. *Applied Microbiology and Biotechnology*, **2013**, 97, 2735-42	5.7	27
89	Phase distribution identification in the column leaching of low grade ores using MRI. *Minerals Engineering*, **2013**, 48, 94-99	4.9	16
88	Investigation and in situ visualisation of interfacial interactions of thermophilic microorganisms with metal-sulphides in a simulated heap environment. *Minerals Engineering*, **2013**, 48, 100-107	4.9	20
87	Determining the effect of acid stress on the persistence and growth of thermophilic microbial species after mesophilic colonisation of low grade ore in a heap leach environment. *Minerals Engineering*, **2013**, 53, 152-159	4.9	24
86	Attachment of Acidithiobacillus ferrooxidans and Leptospirillum ferriphilum cultured under varying conditions to pyrite, chalcopyrite, low-grade ore and quartz in a packed column reactor. *Applied Microbiology and Biotechnology*, **2013**, 97, 1317-24	5.7	48
85	The effect of sulfide concentrate mineralogy and texture on Reactive Oxygen Species (ROS) generation. *Applied Geochemistry*, **2013**, 29, 199-213	3.5	8
84	A comparison of pyrrhotite rejection and passivation in two nickel ores. *Minerals Engineering*, **2013**, 46-47, 38-44	4.9	9
83	Quantification of growth and colonisation of low grade sulphidic ores by acidophilic chemoautotrophs using a novel experimental system. *Minerals Engineering*, **2013**, 48, 108-115	4.9	21
82	The Impact of Drip Irrigation on Heap Hydrology and Microbial Colonies in Bioleaching. *Advanced Materials Research*, **2013**, 825, 455-458	0.5	
81	A Novel Apparatus to Determine the Bio-Oxidation Kinetics of Sessile Leptospirillum ferriphilum. *Advanced Materials Research*, **2013**, 825, 238-241	0.5	1
80	Dynamic Evolution of the Microbial Community in BIOX Leaching Tanks. *Advanced Materials Research*, **2013**, 825, 331-334	0.5	26
79	True Growth Rate Kinetics: An Account of the Colonisation and Transport of Microorganisms on Whole Low Grade Ore, at the Agglomerate Scale. *Advanced Materials Research*, **2013**, 825, 468-471	0.5	1
78	Analysis of Microalgal Biorefineries for Bioenergy from an Environmental and Economic Perspective Focus on Algal Biodiesel **2013**, 113-136		3
77	Effect of culture conditions on the competitive interaction between lactate oxidizers and fermenters in a biological sulfate reduction system. *Bioresource Technology*, **2012**, 104, 616-21	11	13
76	Mitigating acid rock drainage risks while recovering low-sulfur coal from ultrafine colliery wastes using froth flotation. *Minerals Engineering*, **2012**, 29, 13-21	4.9	32
75	An experimental study of the long-term bioleaching of large sphalerite ore particles in a circulating fluid fixed-bed reactor. *Hydrometallurgy*, **2012**, 129-130, 161-171	4	23
74	Lipid productivity, settling potential and fatty acid profile of 11 microalgal species grown under nitrogen replete and limited conditions. *Journal of Applied Phycology*, **2012**, 24, 989-1001	3.2	236
73	A critical evaluation of CO2 supplementation to algal systems by direct injection. *Biochemical Engineering Journal*, **2012**, 68, 70-75	4.2	61

72	Modification of the ferric chloride assay for the spectrophotometric determination of ferric and total iron in acidic solutions containing high concentrations of copper. *Minerals Engineering*, **2012**, 35, 46-48	4.9	17
71	Microbial colonisation in heaps for mineral bioleaching and the influence of irrigation rate. *Minerals Engineering*, **2012**, 39, 156-164	4.9	24
70	Whole-cell hydroxylation of n-octane by Escherichia coli strains expressing the CYP153A6 operon. *Applied Microbiology and Biotechnology*, **2012**, 96, 1507-16	5.7	25
69	The effect of CO2 availability on the growth, iron oxidation and CO2-fixation rates of pure cultures of Leptospirillum ferriphilum and Acidithiobacillus ferrooxidans. *Biotechnology and Bioengineering*, **2012**, 109, 1693-703	4.9	25
68	Assessing solids concentration homogeneity in Rushton-agitated slurry reactors using electrical resistance tomography (ERT). *Chemical Engineering Science*, **2012**, 71, 392-399	4.4	40
67	Interference by pigment in the estimation of microalgal biomass concentration by optical density. *Journal of Microbiological Methods*, **2011**, 85, 119-23	2.8	227
66	The effect of temperature and culture history on the attachment of Metallosphaera hakonensis to mineral sulfides with application to heap bioleaching. *Minerals Engineering*, **2011**, 24, 1157-1165	4.9	23
65	The generation of toxic reactive oxygen species (ROS) from mechanically activated sulphide concentrates and its effect on thermophilic bioleaching. *Minerals Engineering*, **2011**, 24, 1198-1208	4.9	38
64	Some aspects of the effect of pH and acid stress in heap bioleaching. *Minerals Engineering*, **2011**, 24, 1209-1214	4.9	14
63	Cell Disruption **2011**, 619-640		8
62	Optimising orifice geometry for selective release of periplasmic products during cell disruption by hydrodynamic cavitation. *Biochemical Engineering Journal*, **2011**, 54, 207-209	4.2	18
61	Cell Disruption **2011**, 692-712		
60	Analysis of partial suspension in stirred mixing cells using both MRI and ERT. *Chemical Engineering Science*, **2010**, 65, 1385-1393	4.4	26
59	Selection of direct transesterification as the preferred method for assay of fatty acid content of microalgae. *Lipids*, **2010**, 45, 1053-60	1.6	188
58	Mitigating the generation of acid mine drainage from copper sulfide tailings impoundments in perpetuity: A case study for an integrated management strategy. *Minerals Engineering*, **2010**, 23, 225-229	4.9	33
57	In situ investigation and visualisation of microbial attachment and colonisation in a heap bioleach environment: The novel biofilm reactor. *Minerals Engineering*, **2010**, 23, 486-491	4.9	24
56	Investigating heap bioleaching: Effect of feed iron concentration on bioleaching performance. *Minerals Engineering*, **2010**, 23, 518-525	4.9	25
55	Biokinetic test for the characterisation of AMD generation potential of sulfide mineral wastes. *Hydrometallurgy*, **2010**, 104, 459-464	4	17

54	Improving the production of a thermostable amidase through optimising IPTG induction in a highly dense culture of recombinant Escherichia coli. *Biochemical Engineering Journal*, **2010**, 52, 19-24	4.2	21
53	Kinetic analysis of biological sulphate reduction using lactate as carbon source and electron donor: Effect of sulphate concentration. *Chemical Engineering Science*, **2010**, 65, 4771-4781	4.4	37
52	Process Decisions Focused on the Prevention of AMD Formation on Beneficiating Sulfide Minerals. *Advanced Materials Research*, **2009**, 71-73, 685-688	0.5	
51	Competition between Lactate Oxidisers and Fermenters under Biosulphidogenic Conditions: Implications in the Biological Treatment of AMD. *Advanced Materials Research*, **2009**, 71-73, 689-692	0.5	2
50	Investigation and Visualisation of Microbial Attachment Trends to Sulphide Minerals in a Bioleach Environment. *Advanced Materials Research*, **2009**, 71-73, 345-348	0.5	3
49	The Effect of Nutrient Supplementation on Growth and Leaching Performance of Bioleaching Bacteria. *Advanced Materials Research*, **2009**, 71-73, 413-416	0.5	3
48	Sulfide Mineral Induced Oxidative Stress as a Limiting Factor in Tank Bioleaching Performance. *Advanced Materials Research*, **2009**, 71-73, 365-368	0.5	3
47	Advances in product release strategies and impact on bioprocess design. *Trends in Biotechnology*, **2009**, 27, 477-85	15.1	111
46	Lipid productivity as a key characteristic for choosing algal species for biodiesel production. *Journal of Applied Phycology*, **2009**, 21, 493-507	3.2	1023
45	Study of anaerobic lactate metabolism under biosulfidogenic conditions. *Water Research*, **2009**, 43, 3345-54	4.5	38
44	Influence of the extent of disruption of Bakers' yeast on protein adsorption in expanded beds. *Journal of Biotechnology*, **2008**, 133, 360-9	3.7	19
43	A study of the influence of yeast cell debris on protein and alpha-glucosidase adsorption at various zones within the expanded bed using in-bed sampling. *Biotechnology and Bioengineering*, **2008**, 99, 614-24	4.9	5
42	Characterization of the distribution of glucose oxidase in Penicillium sp. CBS 120262 and Aspergillus niger NRRL-3 cultures and its effect on integrated product recovery. *Biotechnology and Bioengineering*, **2008**, 99, 910-8	4.9	4
41	A life-cycle comparison between inorganic and biological catalysis for the production of biodiesel. *Journal of Cleaner Production*, **2008**, 16, 1368-1378	10.3	119
40	The effect of the particulate phase on coal biosolubilisation mediated by Trichoderma atroviride in a slurry bioreactor. *Fuel Processing Technology*, **2008**, 89, 123-130	7.2	27
39	The effect of chemical pretreatment combined with mechanical disruption on the extent of disruption and release of intracellular protein from E. coli. *Biochemical Engineering Journal*, **2007**, 35, 166-173	4.2	46
38	A study of the relative dominance of selected anaerobic sulfate-reducing bacteria in a continuous bioreactor by fluorescence in situ hybridization. *Microbial Ecology*, **2007**, 53, 43-52	4.4	13
37	Degradation of low rank coal by Trichoderma atroviride ES11. *Journal of Industrial Microbiology and Biotechnology*, **2007**, 34, 625-31	4.2	36

36	Effect of Sulphate Concentration on the Community Structure and Activity of Sulphate Reducing Bacteria. *Advanced Materials Research*, **2007**, 20-21, 513-515	0.5	2
35	Environmental analysis of plastic production processes: comparing petroleum-based polypropylene and polyethylene with biologically-based poly-beta-hydroxybutyric acid using life cycle analysis. *Journal of Biotechnology*, **2007**, 130, 57-66	3.7	278
34	Location of glucose oxidase during production by Aspergillus niger. *Applied Microbiology and Biotechnology*, **2006**, 70, 72-7	5.7	5
33	Disruption of Brewers' yeast by hydrodynamic cavitation: Process variables and their influence on selective release. *Biotechnology and Bioengineering*, **2006**, 94, 303-11	4.9	41
32	Exposure to sulfide causes populations shifts in sulfate-reducing consortia. *Research in Microbiology* , **2006**, 157, 784-91	4	33
31	Identification of population dynamics in sulfate-reducing consortia on exposure to sulfate. *Research in Microbiology*, **2006**, 157, 922-7	4	12
30	Study of physical and biological factors involved in the disruption of E. coli by hydrodynamic cavitation. *Biotechnology Progress*, **2006**, 22, 907-13	2.8	58
29	Enhancement and repression of the volumetric oxygen transfer coefficient through hydrocarbon addition and its influence on oxygen transfer rate in stirred tank bioreactors. *Biochemical Engineering Journal*, **2006**, 28, 237-242	4.2	58
28	Product inhibition by sulphide species on biological sulphate reduction for the treatment of acid mine drainage. *Hydrometallurgy*, **2006**, 83, 214-222	4	49
27	Development of a method to assay the microbial population in heap bioleaching operations. *Hydrometallurgy*, **2006**, 83, 237-244	4	24
26	Improved cavitational cell disruption following pH pretreatment for the extraction of β-galactosidase from Kluveromyces lactis. *Biochemical Engineering Journal*, **2006**, 31, 25-30	4.2	25
25	Examination of swirling flow using electrical resistance tomography. *Powder Technology*, **2006**, 162, 157-165	5.2	24
24	A kinetic study on anaerobic reduction of sulphate, part II: incorporation of temperature effects in the kinetic model. *Chemical Engineering Science*, **2005**, 60, 3517-3524	4.4	37
23	Heat induced translocation of proteins and enzymes within the cell: an effective way to optimize the microbial cell disruption process. *Biochemical Engineering Journal*, **2005**, 23, 247-257	4.2	18
22	A kinetic study on anaerobic reduction of sulphate, Part I: Effect of sulphate concentration. *Chemical Engineering Science*, **2002**, 57, 2773-2780	4.4	73
21	Effect of Aeration in Propagation on Surface Properties of Brewers' Yeast **2001**, 89-99		3
20	Particle size effects in bioleaching of pyrite by acidophilic thermophile Sulfolobus metallicus (BC). *Applied Microbiology and Biotechnology*, **2000**, 53, 173-9	5.7	75
19	A comparative study on thermophilic and mesophilic biooxidation of ferrous iron. *Minerals Engineering*, **2000**, 13, 19-24	4.9	40

18	The kinetics and mechanism of Corynebacterium glutamicum aggregate breakup in bioreactors. *Chemical Engineering Science*, **1999**, 54, 441-454	4.4	7
17	Kinetic studies on anaerobic reduction of sulphate. *Process Metallurgy*, **1999**, 697-706		
16	Morphological characterisation of yeast colony growth on solid media using image processing. *Biotechnology Letters*, **1998**, 12, 763-767		9
15	Biological oxidation of ferrous sulphate by Thiobacillus ferrooxidans: a review on the kinetic aspects. *Biochemical Engineering Journal*, **1998**, 1, 171-190	4.2	194
14	The use of mini-hydrocyclones for differential separations within mineral slurries subjected to bioleaching. *Minerals Engineering*, **1997**, 10, 529-535	4.9	7
13	A preliminary investigation of the ferric leaching of a pyrite/arsenopyrite flotation concentrate. *Minerals Engineering*, **1997**, 10, 1023-1030	4.9	18
12	The application of mini-hydrocyclones in the concentration of yeast suspensions. *The Chemical Engineering Journal and the Biochemical Engineering Journal*, **1997**, 65, 21-26		6
11	The application of mini-hydrocyclones in the concentration of yeast suspensions. *Chemical Engineering Journal*, **1997**, 65, 21-26	14.7	49
10	Demonstration of the Crabtree effect in Phaffia rhodozyma during continuous and fed-batch cultivation. *Biotechnology Letters*, **1997**, 19, 549-552	3	36
9	The effect of As(III) and As(V) on the batch bioleaching of a pyrite-arsenopyrite concentrate. *Minerals Engineering*, **1996**, 9, 1235-1252	4.9	30
8	Studies on the growth, modelling and pigment production by the yeast Phaffia rhodozyma during fed-batch cultivation. *Biotechnology Letters*, **1996**, 18, 649-654	3	20
7	Plasticization of poly(hydroxybutyrate) in vivo. *International Journal of Biological Macromolecules*, **1992**, 14, 50-6	7.9	47
6	A pulsatile flow bioreactor. *Chemical Engineering Science*, **1992**, 47, 490-493	4.4	13
5	The lysis of Gram-negative Alcaligenes eutrophus by enzymes from Cytophaga. *Biotechnology Letters*, **1991**, 5, 115-120		3
4	Bacterial cell disruption: a key unit operation in the recovery of intracellular products. *Biotechnology Advances*, **1991**, 9, 217-40	17.8	212
3	Immobilized Clostridium acetobutylicum P262 Mutants for Solvent Production. *Applied and Environmental Microbiology*, **1985**, 50, 477-81	4.8	36
2	Advances in Bioreactor Systems for the Production of Biologicals in Mammalian Cells. *ChemBioEng Reviews*,	5.2	3
1	Thiocyanate and organic carbon inputs drive convergent selection for specific autotrophic Afipia and Thiobacillus strains within complex microbiomes		2