

Sue T L Harrison

List of Publications by Citations

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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	Lipid productivity as a key characteristic for choosing algal species for biodiesel production. <i>Journal of Applied Phycology</i> , 2009 , 21, 493-507	3.2	1023
178	Environmental analysis of plastic production processes: comparing petroleum-based polypropylene and polyethylene with biologically-based poly-beta-hydroxybutyric acid using life cycle analysis. <i>Journal of Biotechnology</i> , 2007 , 130, 57-66	3.7	278
177	Lipid productivity, settling potential and fatty acid profile of 11 microalgal species grown under nitrogen replete and limited conditions. <i>Journal of Applied Phycology</i> , 2012 , 24, 989-1001	3.2	236
176	Interference by pigment in the estimation of microalgal biomass concentration by optical density. <i>Journal of Microbiological Methods</i> , 2011 , 85, 119-23	2.8	227
175	Bacterial cell disruption: a key unit operation in the recovery of intracellular products. <i>Biotechnology Advances</i> , 1991 , 9, 217-40	17.8	212
174	Biological oxidation of ferrous sulphate by <i>Thiobacillus ferrooxidans</i> : a review on the kinetic aspects. <i>Biochemical Engineering Journal</i> , 1998 , 1, 171-190	4.2	194
173	Selection of direct transesterification as the preferred method for assay of fatty acid content of microalgae. <i>Lipids</i> , 2010 , 45, 1053-60	1.6	188
172	A life-cycle comparison between inorganic and biological catalysis for the production of biodiesel. <i>Journal of Cleaner Production</i> , 2008 , 16, 1368-1378	10.3	119
171	Advances in product release strategies and impact on bioprocess design. <i>Trends in Biotechnology</i> , 2009 , 27, 477-85	15.1	111
170	The effect of nitrogen limitation on lipid productivity and cell composition in <i>Chlorella vulgaris</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2345-56	5.7	88
169	Particle size effects in bioleaching of pyrite by acidophilic thermophile <i>Sulfolobus metallicus</i> (BC). <i>Applied Microbiology and Biotechnology</i> , 2000 , 53, 173-9	5.7	75
168	A kinetic study on anaerobic reduction of sulphate, Part I: Effect of sulphate concentration. <i>Chemical Engineering Science</i> , 2002 , 57, 2773-2780	4.4	73
167	The use of pyrite as a source of lixiviant in the bioleaching of electronic waste. <i>Hydrometallurgy</i> , 2015 , 152, 33-43	4	66
166	Bioreactor microbial ecosystems for thiocyanate and cyanide degradation unravelled with genome-resolved metagenomics. <i>Environmental Microbiology</i> , 2015 , 17, 4929-41	5.2	66
165	A critical evaluation of CO ₂ supplementation to algal systems by direct injection. <i>Biochemical Engineering Journal</i> , 2012 , 68, 70-75	4.2	61
164	Study of physical and biological factors involved in the disruption of <i>E. coli</i> by hydrodynamic cavitation. <i>Biotechnology Progress</i> , 2006 , 22, 907-13	2.8	58
163	Enhancement and repression of the volumetric oxygen transfer coefficient through hydrocarbon addition and its influence on oxygen transfer rate in stirred tank bioreactors. <i>Biochemical Engineering Journal</i> , 2006 , 28, 237-242	4.2	58

162	The application of mini-hydrocyclones in the concentration of yeast suspensions. <i>Chemical Engineering Journal</i> , 1997 , 65, 21-26	14.7	49
161	Product inhibition by sulphide species on biological sulphate reduction for the treatment of acid mine drainage. <i>Hydrometallurgy</i> , 2006 , 83, 214-222	4	49
160	Attachment of <i>Acidithiobacillus ferrooxidans</i> and <i>Leptospirillum ferriphilum</i> cultured under varying conditions to pyrite, chalcopyrite, low-grade ore and quartz in a packed column reactor. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 1317-24	5.7	48
159	Plasticization of poly(hydroxybutyrate) in vivo. <i>International Journal of Biological Macromolecules</i> , 1992 , 14, 50-6	7.9	47
158	The effect of chemical pretreatment combined with mechanical disruption on the extent of disruption and release of intracellular protein from <i>E. coli</i> . <i>Biochemical Engineering Journal</i> , 2007 , 35, 166-173	4.2	46
157	Disruption of Brewers' yeast by hydrodynamic cavitation: Process variables and their influence on selective release. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 303-11	4.9	41
156	Assessing solids concentration homogeneity in Rushton-agitated slurry reactors using electrical resistance tomography (ERT). <i>Chemical Engineering Science</i> , 2012 , 71, 392-399	4.4	40
155	A comparative study on thermophilic and mesophilic biooxidation of ferrous iron. <i>Minerals Engineering</i> , 2000 , 13, 19-24	4.9	40
154	The generation of toxic reactive oxygen species (ROS) from mechanically activated sulphide concentrates and its effect on thermophilic bioleaching. <i>Minerals Engineering</i> , 2011 , 24, 1198-1208	4.9	38
153	Study of anaerobic lactate metabolism under biosulfidogenic conditions. <i>Water Research</i> , 2009 , 43, 3345-3355	4.4	38
152	A chemo-enzymatic oxidation cascade to activate C-H bonds with in situ generated HO. <i>Nature Communications</i> , 2019 , 10, 4178	17.4	37
151	Kinetic analysis of biological sulphate reduction using lactate as carbon source and electron donor: Effect of sulphate concentration. <i>Chemical Engineering Science</i> , 2010 , 65, 4771-4781	4.4	37
150	A kinetic study on anaerobic reduction of sulphate, part II: incorporation of temperature effects in the kinetic model. <i>Chemical Engineering Science</i> , 2005 , 60, 3517-3524	4.4	37
149	Demonstration of the Crabtree effect in <i>Phaffia rhodozyma</i> during continuous and fed-batch cultivation. <i>Biotechnology Letters</i> , 1997 , 19, 549-552	3	36
148	Degradation of low rank coal by <i>Trichoderma atroviride</i> ES11. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2007 , 34, 625-31	4.2	36
147	Immobilized <i>Clostridium acetobutylicum</i> P262 Mutants for Solvent Production. <i>Applied and Environmental Microbiology</i> , 1985 , 50, 477-81	4.8	36
146	Genome-Resolved Meta-Omics Ties Microbial Dynamics to Process Performance in Biotechnology for Thiocyanate Degradation. <i>Environmental Science & Technology</i> , 2017 , 51, 2944-2953	10.3	34
145	Mitigating the generation of acid mine drainage from copper sulfide tailings impoundments in perpetuity: A case study for an integrated management strategy. <i>Minerals Engineering</i> , 2010 , 23, 225-229	4.9	33

144	Exposure to sulfide causes populations shifts in sulfate-reducing consortia. <i>Research in Microbiology</i> , 2006 , 157, 784-91	4	33
143	Mitigating acid rock drainage risks while recovering low-sulfur coal from ultrafine colliery wastes using froth flotation. <i>Minerals Engineering</i> , 2012 , 29, 13-21	4.9	32
142	Non-Hydrolyzable Plastics - An Interdisciplinary Look at Plastic Bio-Oxidation. <i>Trends in Biotechnology</i> , 2021 , 39, 12-23	15.1	31
141	Characterisation of the complex microbial community associated with the ASTERITE thiocyanate biodegradation system. <i>Minerals Engineering</i> , 2015 , 76, 65-71	4.9	30
140	The effect of As(III) and As(V) on the batch bioleaching of a pyrite-arsenopyrite concentrate. <i>Minerals Engineering</i> , 1996 , 9, 1235-1252	4.9	30
139	Reactive oxygen species generated in the presence of fine pyrite particles and its implication in thermophilic mineral bioleaching. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 2735-42	5.7	27
138	The effect of the particulate phase on coal biosolubilisation mediated by <i>Trichoderma atroviride</i> in a slurry bioreactor. <i>Fuel Processing Technology</i> , 2008 , 89, 123-130	7.2	27
137	Dynamic Evolution of the Microbial Community in BIOX Leaching Tanks. <i>Advanced Materials Research</i> , 2013 , 825, 331-334	0.5	26
136	Analysis of partial suspension in stirred mixing cells using both MRI and ERT. <i>Chemical Engineering Science</i> , 2010 , 65, 1385-1393	4.4	26
135	Whole-cell hydroxylation of n-octane by <i>Escherichia coli</i> strains expressing the CYP153A6 operon. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 1507-16	5.7	25
134	The effect of CO ₂ availability on the growth, iron oxidation and CO ₂ -fixation rates of pure cultures of <i>Leptospirillum ferriphilum</i> and <i>Acidithiobacillus ferrooxidans</i> . <i>Biotechnology and Bioengineering</i> , 2012 , 109, 1693-703	4.9	25
133	Investigating heap bioleaching: Effect of feed iron concentration on bioleaching performance. <i>Minerals Engineering</i> , 2010 , 23, 518-525	4.9	25
132	Improved cavitation cell disruption following pH pretreatment for the extraction of β -galactosidase from <i>Kluyveromyces lactis</i> . <i>Biochemical Engineering Journal</i> , 2006 , 31, 25-30	4.2	25
131	Aeration energy requirements for lipid production by <i>Scenedesmus</i> sp. in airlift bioreactors. <i>Algal Research</i> , 2014 , 5, 249-257	5	24
130	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. <i>Minerals Engineering</i> , 2013 , 53, 152-159	4.9	24
129	Microbial colonisation in heaps for mineral bioleaching and the influence of irrigation rate. <i>Minerals Engineering</i> , 2012 , 39, 156-164	4.9	24
128	In situ investigation and visualisation of microbial attachment and colonisation in a heap bioleach environment: The novel biofilm reactor. <i>Minerals Engineering</i> , 2010 , 23, 486-491	4.9	24
127	Development of a method to assay the microbial population in heap bioleaching operations. <i>Hydrometallurgy</i> , 2006 , 83, 237-244	4	24

126	Examination of swirling flow using electrical resistance tomography. <i>Powder Technology</i> , 2006 , 162, 157-165	4.6	24
125	MRI and gravimetric studies of hydrology in drip irrigated heaps and its effect on the propagation of bioleaching micro-organisms. <i>Hydrometallurgy</i> , 2014 , 150, 210-221	4	23
124	An experimental study of the long-term bioleaching of large sphalerite ore particles in a circulating fluid fixed-bed reactor. <i>Hydrometallurgy</i> , 2012 , 129-130, 161-171	4	23
123	The effect of temperature and culture history on the attachment of <i>Metallosphaera hakonensis</i> to mineral sulfides with application to heap bioleaching. <i>Minerals Engineering</i> , 2011 , 24, 1157-1165	4.9	23
122	The effect of degree and timing of nitrogen limitation on lipid productivity in <i>Chlorella vulgaris</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 6147-59	5.7	22
121	The influence of microbial physiology on biocatalyst activity and efficiency in the terminal hydroxylation of n-octane using <i>Escherichia coli</i> expressing the alkane hydroxylase, CYP153A6. <i>Microbial Cell Factories</i> , 2013 , 12, 8	6.4	22
120	Quantification of growth and colonisation of low grade sulphidic ores by acidophilic chemoautotrophs using a novel experimental system. <i>Minerals Engineering</i> , 2013 , 48, 108-115	4.9	21
119	Improving the production of a thermostable amidase through optimising IPTG induction in a highly dense culture of recombinant <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2010 , 52, 19-24	4.2	21
118	Electrical output of bryophyte microbial fuel cell systems is sufficient to power a radio or an environmental sensor. <i>Royal Society Open Science</i> , 2016 , 3, 160249	3.3	21
117	Investigation and in situ visualisation of interfacial interactions of thermophilic microorganisms with metal-sulphides in a simulated heap environment. <i>Minerals Engineering</i> , 2013 , 48, 100-107	4.9	20
116	Studies on the growth, modelling and pigment production by the yeast <i>Phaffia rhodozyma</i> during fed-batch cultivation. <i>Biotechnology Letters</i> , 1996 , 18, 649-654	3	20
115	Influence of the extent of disruption of Bakers' yeast on protein adsorption in expanded beds. <i>Journal of Biotechnology</i> , 2008 , 133, 360-9	3.7	19
114	Sequential pretreatment of double refractory gold ore (DRGO) with a thermophilic iron oxidizing archaeon and fungal crude enzymes. <i>Minerals Engineering</i> , 2019 , 138, 86-94	4.9	18
113	Optimising orifice geometry for selective release of periplasmic products during cell disruption by hydrodynamic cavitation. <i>Biochemical Engineering Journal</i> , 2011 , 54, 207-209	4.2	18
112	A preliminary investigation of the ferric leaching of a pyrite/arsenopyrite flotation concentrate. <i>Minerals Engineering</i> , 1997 , 10, 1023-1030	4.9	18
111	Heat induced translocation of proteins and enzymes within the cell: an effective way to optimize the microbial cell disruption process. <i>Biochemical Engineering Journal</i> , 2005 , 23, 247-257	4.2	18
110	Genome-resolved metagenomics of a bioremediation system for degradation of thiocyanate in mine water containing suspended solid tailings. <i>MicrobiologyOpen</i> , 2017 , 6, e00446	3.4	17
109	A novel experimental system for the study of microbial ecology and mineral leaching within a simulated agglomerate-scale heap bioleaching system. <i>Biochemical Engineering Journal</i> , 2015 , 95, 86-97	4.2	17

108	Modification of the ferric chloride assay for the spectrophotometric determination of ferric and total iron in acidic solutions containing high concentrations of copper. <i>Minerals Engineering</i> , 2012 , 35, 46-48	4.9	17
107	Biokinetic test for the characterisation of AMD generation potential of sulfide mineral wastes. <i>Hydrometallurgy</i> , 2010 , 104, 459-464	4	17
106	Continuous bioleaching of arsenopyrite from mine tailings using an adapted mesophilic microbial culture. <i>Hydrometallurgy</i> , 2019 , 187, 187-194	4	16
105	A mineralogical approach to evaluating laboratory scale acid rock drainage characterisation tests. <i>Minerals Engineering</i> , 2015 , 80, 33-36	4.9	16
104	Phase distribution identification in the column leaching of low grade ores using MRI. <i>Minerals Engineering</i> , 2013 , 48, 94-99	4.9	16
103	Energy consumption due to mixing and mass transfer in a wave photobioreactor. <i>Algal Research</i> , 2017 , 24, 317-324	5	15
102	Bioleaching of arsenopyrite from Janggun mine tailings (South Korea) using an adapted mixed mesophilic culture. <i>Hydrometallurgy</i> , 2018 , 181, 21-28	4	15
101	Yeast flocculation aids the performance of yeast dewatering using mini-hydrocyclones. <i>Separation and Purification Technology</i> , 2019 , 209, 159-163	8.3	15
100	Spatial variations in leaching of a low-grade, low-porosity chalcopyrite ore identified using X-ray CT. <i>Minerals Engineering</i> , 2017 , 105, 63-68	4.9	14
99	Some aspects of the effect of pH and acid stress in heap bioleaching. <i>Minerals Engineering</i> , 2011 , 24, 1209-1214	4.9	14
98	Effect of culture conditions on the competitive interaction between lactate oxidizers and fermenters in a biological sulfate reduction system. <i>Bioresource Technology</i> , 2012 , 104, 616-21	11	13
97	Magnetic resonance imaging characterisation of the influence of flowrate on liquid distribution in drip irrigated heap leaching. <i>Hydrometallurgy</i> , 2015 , 158, 157-164	4	13
96	Effect of inoculum size on the rates of whole ore colonisation of mesophilic, moderate thermophilic and thermophilic acidophiles. <i>Hydrometallurgy</i> , 2014 , 149, 244-251	4	13
95	A study of the relative dominance of selected anaerobic sulfate-reducing bacteria in a continuous bioreactor by fluorescence in situ hybridization. <i>Microbial Ecology</i> , 2007 , 53, 43-52	4.4	13
94	A pulsatile flow bioreactor. <i>Chemical Engineering Science</i> , 1992 , 47, 490-493	4.4	13
93	Ethanol from Biomass Hydrolysates by Efficient Fermentation of Glucose and Xylose [A Review]. <i>ChemBioEng Reviews</i> , 2018 , 5, 294-311	5.2	13
92	Application of fine desulfurised coal tailings as neutralising barriers in the prevention of acid rock drainage. <i>Hydrometallurgy</i> , 2017 , 168, 159-166	4	12
91	Effect of thiocyanate on BIOX [®] organisms: Inhibition and adaptation. <i>Minerals Engineering</i> , 2015 , 75, 110-115	4.9	12

90	Identification of population dynamics in sulfate-reducing consortia on exposure to sulfate. <i>Research in Microbiology</i> , 2006 , 157, 922-7	4	12
89	Investigating the effect of acid stress on selected mesophilic micro-organisms implicated in bioleaching. <i>Minerals Engineering</i> , 2015 , 75, 6-13	4.9	11
88	Transformation of the carbonaceous matter in double refractory gold ore by crude lignin peroxidase released from the white-rot fungus. <i>International Biodeterioration and Biodegradation</i> , 2019 , 143, 104735	4.8	11
87	Evaluation of the ASTERTM process in the presence of suspended solids. <i>Minerals Engineering</i> , 2015 , 76, 72-80	4.9	10
86	Effect of cell permeability and dehydrogenase expression on octane activation by CYP153A6-based whole cell <i>Escherichia coli</i> catalysts. <i>Microbial Cell Factories</i> , 2017 , 16, 156	6.4	9
85	Linking Microbial Community Dynamics in BIOX [®] Leaching Tanks to Process Conditions: Integrating Lab and Commercial Experience. <i>Solid State Phenomena</i> , 2017 , 262, 38-42	0.4	9
84	A comparison of pyrrhotite rejection and passivation in two nickel ores. <i>Minerals Engineering</i> , 2013 , 46-47, 38-44	4.9	9
83	Morphological characterisation of yeast colony growth on solid media using image processing. <i>Biotechnology Letters</i> , 1998 , 12, 763-767		9
82	Demonstration of simultaneous biological sulphate reduction and partial sulphide oxidation in a hybrid linear flow channel reactor. <i>Journal of Water Process Engineering</i> , 2020 , 34, 101143	6.7	8
81	The effect of sulfide concentrate mineralogy and texture on Reactive Oxygen Species (ROS) generation. <i>Applied Geochemistry</i> , 2013 , 29, 199-213	3.5	8
80	Insights into Ferric Leaching of Low Grade Metal Sulfide-Containing ores in an Unsaturated Ore Bed Using X-ray Computed Tomography. <i>Minerals (Basel, Switzerland)</i> , 2017 , 7, 85	2.4	8
79	Cell Disruption 2011 , 619-640		8
78	On the feasibility of South African coal waste for production of HabSoil [®] Technosol. <i>Minerals Engineering</i> , 2020 , 146, 106059	4.9	8
77	Biological pretreatment of carbonaceous matter in double refractory gold ores: A review and some future considerations. <i>Hydrometallurgy</i> , 2020 , 196, 105434	4	8
76	Effect of physico-chemical and operating conditions on the growth and activity of <i>Acidithiobacillus ferrooxidans</i> in a simulated heap bioleaching environment. <i>Minerals Engineering</i> , 2015 , 75, 14-25	4.9	7
75	Anaerobic digestion of <i>Spirulina</i> sp. and <i>Scenedesmus</i> sp.: a comparison and investigation of the impact of mechanical pre-treatment. <i>Journal of Applied Phycology</i> , 2015 , 27, 1891-1900	3.2	7
74	Co-disposal of benign desulfurised tailings with sulfidic waste rock to mitigate ARD generation: Influence of flow and contact surface. <i>Minerals Engineering</i> , 2018 , 116, 62-71	4.9	7
73	Modelling microbial transport in simulated low-grade heap bioleaching systems: The hydrodynamic dispersion model. <i>Chemical Engineering Science</i> , 2017 , 172, 545-558	4.4	7

72	The use of mini-hydrocyclones for differential separations within mineral slurries subjected to bioleaching. <i>Minerals Engineering</i> , 1997 , 10, 529-535	4.9	7
71	The kinetics and mechanism of <i>Corynebacterium glutamicum</i> aggregate breakup in bioreactors. <i>Chemical Engineering Science</i> , 1999 , 54, 441-454	4.4	7
70	Analysis of ethanol production from xylose using <i>Pichia stipitis</i> in microaerobic conditions through experimental observations and kinetic modelling. <i>Biochemical Engineering Journal</i> , 2020 , 164, 107754	4.2	7
69	Biochemical and structural insights into the cytochrome P450 reductase from <i>Candida tropicalis</i> . <i>Scientific Reports</i> , 2019 , 9, 20088	4.9	7
68	Wastewater Biorefineries: Integrating Water Treatment and Value Recovery. <i>Green Energy and Technology</i> , 2018 , 289-302	0.6	7
67	Stratification of microbial communities throughout a biological sulphate reducing up-flow anaerobic packed bed reactor, revealed through 16S metagenomics. <i>Research in Microbiology</i> , 2018 , 169, 543-551	4	7
66	Using isothermal microcalorimetry to measure the metabolic activity of the mineral-associated microbial community in bioleaching. <i>Minerals Engineering</i> , 2017 , 106, 33-38	4.9	6
65	The application of mini-hydrocyclones in the concentration of yeast suspensions. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1997 , 65, 21-26		6
64	Exploring the tension between energy consumption, light provision and CO ₂ mass transfer through varying gas velocity in the airlift bioreactor. <i>Algal Research</i> , 2016 , 19, 381-390	5	6
63	Low-level thiocyanate concentrations impact on iron oxidation activity and growth of <i>Leptospirillum ferriphilum</i> through inhibition and adaptation. <i>Research in Microbiology</i> , 2018 , 169, 576-581	4.1	6
62	Mathematical Modelling of Bioethanol Fermentation From Glucose, Xylose or Their Combination □ A Review. <i>ChemBioEng Reviews</i> , 2020 , 7, 68-88	5.2	5
61	Energy requirements for the in-situ recovery of biobutanol via gas stripping. <i>Biochemical Engineering Journal</i> , 2018 , 139, 74-84	4.2	5
60	Modelling microbial transport in simulated low-grade heap bioleaching systems: The biomass transport model. <i>Hydrometallurgy</i> , 2014 , 150, 299-307	4	5
59	Insight into solute and microbial transport in heap (bio)leaching systems using residence time distribution. <i>Hydrometallurgy</i> , 2017 , 168, 1-6	4	5
58	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. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 614-24	4.9	5
57	Location of glucose oxidase during production by <i>Aspergillus niger</i> . <i>Applied Microbiology and Biotechnology</i> , 2006 , 70, 72-7	5.7	5
56	Mixing indices allow scale-up of stirred tank slurry reactor conditions for equivalent homogeneity. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 865-874	5.5	5
55	Effect of hydraulic residence time on biological sulphate reduction and elemental sulphur recovery in a single-stage hybrid linear flow channel reactor. <i>Biochemical Engineering Journal</i> , 2020 , 162, 107717	4.2	5

54	Effect of surfactant on the growth and activity of microorganisms in a heap bioleaching system. <i>Minerals Engineering</i> , 2019 , 138, 43-51	4.9	4
53	Enhancing ARD Mitigation by Application of Benign Tailings to Reduce the Permeability of Waste Rock Dumps. <i>Advanced Materials Research</i> , 2015 , 1130, 560-563	0.5	4
52	Characterization of the distribution of glucose oxidase in <i>Penicillium</i> sp. CBS 120262 and <i>Aspergillus niger</i> NRRL-3 cultures and its effect on integrated product recovery. <i>Biotechnology and Bioengineering</i> , 2008 , 99, 910-8	4.9	4
51	Techno-economics of Algal Biodiesel. <i>Green Energy and Technology</i> , 2016 , 111-141	0.6	4
50	Generic flowsheet model for early inventory estimates of industrial microbial processes. II. Downstream processing. <i>South African Journal of Chemical Engineering</i> , 2016 , 22, 23-33	3.2	4
49	Algal Lipids as Biocollector for Recovery of Coal from Fine Coal Waste by Froth Flotation. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 70	2.4	3
48	A novel microwell-based analytical technique for studying ferrous iron biooxidation activity. <i>Minerals Engineering</i> , 2014 , 60, 8-13	4.9	3
47	Analysis of Microalgal Biorefineries for Bioenergy from an Environmental and Economic Perspective Focus on Algal Biodiesel 2013 , 113-136		3
46	Investigation and Visualisation of Microbial Attachment Trends to Sulphide Minerals in a Bioleach Environment. <i>Advanced Materials Research</i> , 2009 , 71-73, 345-348	0.5	3
45	The Effect of Nutrient Supplementation on Growth and Leaching Performance of Bioleaching Bacteria. <i>Advanced Materials Research</i> , 2009 , 71-73, 413-416	0.5	3
44	Sulfide Mineral Induced Oxidative Stress as a Limiting Factor in Tank Bioleaching Performance. <i>Advanced Materials Research</i> , 2009 , 71-73, 365-368	0.5	3
43	The lysis of Gram-negative <i>Alcaligenes eutrophus</i> by enzymes from <i>Cytophaga</i> . <i>Biotechnology Letters</i> , 1991 , 5, 115-120		3
42	Advances in Bioreactor Systems for the Production of Biologicals in Mammalian Cells. <i>ChemBioEng Reviews</i> ,	5.2	3
41	Quantitative X-ray μ CT Measurement of the Effect of Ore Characteristics on Non-Surface Mineral Grain Leaching. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 746	2.4	3
40	Thiocyanate and Organic Carbon Inputs Drive Convergent Selection for Specific Autotrophic and Strains Within Complex Microbiomes. <i>Frontiers in Microbiology</i> , 2021 , 12, 643368	5.7	3
39	Generic flow sheet model for early inventory estimates of industrial microbial processes. I. Flowsheet development, microbial growth and product formation. <i>South African Journal of Chemical Engineering</i> , 2016 , 22, 34-43	3.2	3
38	Implications of Sulfur Speciation on the Assessment of Acid Rock Drainage Generating Potential: A Study of South African Coal Processing Wastes. <i>Minerals (Basel, Switzerland)</i> , 2019 , 9, 776	2.4	3
37	Characterisation and prediction of acid rock drainage potential in waste rock: Value of integrating quantitative mineralogical and textural measurements. <i>Minerals Engineering</i> , 2021 , 163, 106750	4.9	3

36	Generic flowsheeting approach to generating first estimate material and energy balance data for Life Cycle Assessment (LCA) of Penicillin V production. <i>Sustainable Production and Consumption</i> , 2018 , 15, 89-95	8.2	3
35	Effect of Aeration in Propagation on Surface Properties of Brewers' Yeast 2001 , 89-99		3
34	Investigating the Bioleaching of an Arsenic Mine Tailing Using a Mixed Mesophilic Culture. <i>Solid State Phenomena</i> , 2017 , 262, 668-672	0.4	2
33	Assessing Environmental Risks Associated with Ultrafine Coal Wastes Using Laboratory-Scale Tests. <i>Advanced Materials Research</i> , 2015 , 1130, 635-639	0.5	2
32	Analysis of the Microbial Community Associated with a Bioprocess System for Bioremediation of Thiocyanate- and Cyanide-Laden Mine Water Effluents. <i>Advanced Materials Research</i> , 2015 , 1130, 614-619	0.5	2
31	Competition between Lactate Oxidisers and Fermenters under Biosulphidogenic Conditions: Implications in the Biological Treatment of AMD. <i>Advanced Materials Research</i> , 2009 , 71-73, 689-692	0.5	2
30	Effect of Sulphate Concentration on the Community Structure and Activity of Sulphate Reducing Bacteria. <i>Advanced Materials Research</i> , 2007 , 20-21, 513-515	0.5	2
29	Thiocyanate and organic carbon inputs drive convergent selection for specific autotrophic <i>Afipia</i> and <i>Thiobacillus</i> strains within complex microbiomes		2
28	Desulphurising high sulphur coal discards using an accelerated heap leach approach. <i>Hydrometallurgy</i> , 2020 , 197, 105472	4	2
27	Cross-correlating analyses of mineral-associated microorganisms in an unsaturated packed bed flow-through column test; cell number, activity and EPS. <i>Research in Microbiology</i> , 2020 , 171, 222-229	4	2
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