

Jo-Shu Chang

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#	Paper	IF	Citations
545	Cultivation, photobioreactor design and harvesting of microalgae for biodiesel production: a critical review. <i>Bioresource Technology</i> , 2011 , 102, 71-81	11	1270
544	Microalgae biorefinery: High value products perspectives. <i>Bioresource Technology</i> , 2017 , 229, 53-62	11	696
543	Effect of light intensity and nitrogen starvation on CO ₂ fixation and lipid/carbohydrate production of an indigenous microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2012 , 113, 244-52	11	550
542	Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. <i>Bioresource Technology</i> , 2013 , 135, 191-8	11	462
541	Microalgae-based carbohydrates for biofuel production. <i>Biochemical Engineering Journal</i> , 2013 , 78, 1-10	4.2	458
540	Perspectives on microalgal CO ₂ emission mitigation systems--a review. <i>Biotechnology Advances</i> , 2011 , 29, 189-98	17.8	411
539	Thermochemical conversion of microalgal biomass into biofuels: a review. <i>Bioresource Technology</i> , 2015 , 184, 314-327	11	365
538	Biosorption of lead, copper and cadmium by biomass of <i>Pseudomonas aeruginosa</i> PU21. <i>Water Research</i> , 1997 , 31, 1651-1658	12.5	350
537	Microalgae-based biorefinery--from biofuels to natural products. <i>Bioresource Technology</i> , 2013 , 135, 166-74	11	335
536	Kinetic characteristics of bacterial azo-dye decolorization by <i>Pseudomonas luteola</i> . <i>Water Research</i> , 2001 , 35, 2841-50	12.5	321
535	Biosequestration of atmospheric CO ₂ and flue gas-containing CO ₂ by microalgae. <i>Bioresource Technology</i> , 2015 , 184, 190-201	11	295
534	Biosurfactant-enhanced removal of total petroleum hydrocarbons from contaminated soil. <i>Journal of Hazardous Materials</i> , 2009 , 167, 609-14	12.8	285
533	<i>Scenedesmus obliquus</i> CNW-N as a potential candidate for CO ₂ mitigation and biodiesel production. <i>Bioresource Technology</i> , 2010 , 101, 8725-30	11	249
532	Exploring the potential of using algae in cosmetics. <i>Bioresource Technology</i> , 2015 , 184, 355-362	11	243
531	Perspectives on the feasibility of using microalgae for industrial wastewater treatment. <i>Bioresource Technology</i> , 2016 , 222, 485-497	11	233
530	Fermentative hydrogen production and bacterial community structure in high-rate anaerobic bioreactors containing silicone-immobilized and self-flocculated sludge. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 934-46	4.9	226
529	Perspectives on engineering strategies for improving biofuel production from microalgae--a critical review. <i>Biotechnology Advances</i> , 2014 , 32, 1448-59	17.8	220

528	Rhamnolipid production by indigenous <i>Pseudomonas aeruginosa</i> J4 originating from petrochemical wastewater. <i>Biochemical Engineering Journal</i> , 2005 , 27, 146-154	4.2	216
527	Effects of cultivation conditions and media composition on cell growth and lipid productivity of indigenous microalga <i>Chlorella vulgaris</i> ESP-31. <i>Bioresource Technology</i> , 2012 , 105, 120-7	11	214
526	Fermentative hydrogen production from wastewaters: A review and prognosis. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15632-15642	6.7	211
525	Recent developments on algal biochar production and characterization. <i>Bioresource Technology</i> , 2017 , 246, 2-11	11	201
524	Biological hydrogen production of the genus <i>Clostridium</i> : Metabolic study and mathematical model simulation. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1728-1735	6.7	201
523	Lutein production from biomass: marigold flowers versus microalgae. <i>Bioresource Technology</i> , 2015 , 184, 421-428	11	196
522	Bioremediation of heavy metals using microalgae: Recent advances and mechanisms. <i>Bioresource Technology</i> , 2020 , 303, 122886	11	196
521	Biosorption of lead, copper and cadmium by an indigenous isolate <i>Enterobacter</i> sp. J1 possessing high heavy-metal resistance. <i>Journal of Hazardous Materials</i> , 2006 , 134, 80-6	12.8	195
520	Singlet oxygen-dominated peroxydisulfate activation by sludge-derived biochar for sulfamethoxazole degradation through a nonradical oxidation pathway: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2019 , 357, 589-599	14.7	193
519	Microalgal biomass production and on-site bioremediation of carbon dioxide, nitrogen oxide and sulfur dioxide from flue gas using <i>Chlorella</i> sp. cultures. <i>Bioresource Technology</i> , 2011 , 102, 9135-42	11	190
518	Biohydrogen production using sequential two-stage dark and photo fermentation processes. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 4755-4762	6.7	189
517	Current progress and future prospect of microalgal biomass harvest using various flocculation technologies. <i>Bioresource Technology</i> , 2015 , 184, 251-257	11	186
516	Manipulating environmental stresses and stress tolerance of microalgae for enhanced production of lipids and value-added products-A review. <i>Bioresource Technology</i> , 2017 , 244, 1198-1206	11	180
515	Heterotrophic cultivation of microalgae for pigment production: A review. <i>Biotechnology Advances</i> , 2018 , 36, 54-67	17.8	179
514	Dark H ₂ fermentation from sucrose and xylose using H ₂ -producing indigenous bacteria: feasibility and kinetic studies. <i>Water Research</i> , 2008 , 42, 827-42	12.5	176
513	Anaerobic hydrogen production with an efficient carrier-induced granular sludge bed bioreactor. <i>Biotechnology and Bioengineering</i> , 2004 , 87, 648-57	4.9	174
512	Bioreactor and process design for biohydrogen production. <i>Bioresource Technology</i> , 2011 , 102, 8524-33	11	171
511	A review of thermochemical conversion of microalgal biomass for biofuels: chemistry and processes. <i>Green Chemistry</i> , 2017 , 19, 44-67	10	170

510	Sustainable approaches for algae utilisation in bioenergy production. <i>Renewable Energy</i> , 2018 , 129, 838-852	168
509	Enzymatic transesterification of microalgal oil from <i>Chlorella vulgaris</i> ESP-31 for biodiesel synthesis using immobilized <i>Burkholderia</i> lipase. <i>Bioresource Technology</i> , 2012 , 108, 119-27	11 165
508	Biohydrogen production from lignocellulosic feedstock. <i>Bioresource Technology</i> , 2011 , 102, 8514-23	11 162
507	Nitrogen starvation strategies and photobioreactor design for enhancing lipid content and lipid production of a newly isolated microalga <i>Chlorella vulgaris</i> ESP-31: implications for biofuels. <i>Biotechnology Journal</i> , 2011 , 6, 1358-66	5.6 160
506	Decolorization and biodegradation of textile dye Navy blue HER by <i>Trichosporon beigelii</i> NCIM-3326. <i>Journal of Hazardous Materials</i> , 2009 , 166, 1421-8	12.8 158
505	Microalgal drying and cell disruption--recent advances. <i>Bioresource Technology</i> , 2015 , 184, 258-266	11 157
504	Recent insights into biohydrogen production by microalgae - From biophotolysis to dark fermentation. <i>Bioresource Technology</i> , 2016 , 227, 373-373	11 151
503	Cultivation of <i>Chlorella vulgaris</i> JSC-6 with swine wastewater for simultaneous nutrient/COD removal and carbohydrate production. <i>Bioresource Technology</i> , 2015 , 198, 619-25	11 148
502	Utilization of carbon dioxide in industrial flue gases for the cultivation of microalga <i>Chlorella</i> sp. <i>Bioresource Technology</i> , 2014 , 166, 485-93	11 147
501	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021 , 82, 100887	33.6 147
500	High-efficiency removal of lead from wastewater by biochar derived from anaerobic digestion sludge. <i>Bioresource Technology</i> , 2017 , 246, 142-149	11 145
499	Characterization and optimization of carbohydrate production from an indigenous microalga <i>Chlorella vulgaris</i> FSP-E. <i>Bioresource Technology</i> , 2013 , 135, 157-65	11 144
498	Decolorization and biodegradation of reactive dyes and dye wastewater by a developed bacterial consortium. <i>Biodegradation</i> , 2010 , 21, 999-1015	4.1 144
497	Rhamnolipid production with indigenous <i>Pseudomonas aeruginosa</i> EM1 isolated from oil-contaminated site. <i>Bioresource Technology</i> , 2008 , 99, 1157-64	11 140
496	Effect of light supply and carbon source on cell growth and cellular composition of a newly isolated microalga <i>Chlorella vulgaris</i> ESP-31. <i>Engineering in Life Sciences</i> , 2010 , 10, 201-208	3.4 138
495	Immobilization of <i>Burkholderia</i> sp. lipase on a ferric silica nanocomposite for biodiesel production. <i>Journal of Biotechnology</i> , 2012 , 158, 112-9	3.7 137
494	New Prospects for Modified Algae in Heavy Metal Adsorption. <i>Trends in Biotechnology</i> , 2019 , 37, 1255-1268	11 132
493	Cultivation in wastewaters for energy: A microalgae platform. <i>Applied Energy</i> , 2016 , 179, 609-625	10.7 131

492	Exploring optimal environmental factors for fermentative hydrogen production from starch using mixed anaerobic microflora. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1565-1572	6.7	131
491	Enhancing lutein productivity of an indigenous microalga <i>Scenedesmus obliquus</i> FSP-3 using light-related strategies. <i>Bioresource Technology</i> , 2014 , 152, 275-82	11	129
490	Recent insights into the cell immobilization technology applied for dark fermentative hydrogen production. <i>Bioresource Technology</i> , 2016 , 219, 725-737	11	123
489	Kinetics of bacterial decolorization of azo dye with <i>Escherichia coli</i> NO3. <i>Bioresource Technology</i> , 2000 , 75, 107-111	11	123
488	Enhanced production of surfactin from <i>Bacillus subtilis</i> by addition of solid carriers. <i>Biotechnology Progress</i> , 2005 , 21, 1329-34	2.8	122
487	Decolorization of azo dyes with immobilized <i>Pseudomonas luteola</i> . <i>Process Biochemistry</i> , 2001 , 36, 757-763		119
486	Biobutanol production from agricultural waste by an acclimated mixed bacterial microflora. <i>Applied Energy</i> , 2012 , 100, 3-9	10.7	118
485	Torrefaction performance and energy usage of biomass wastes and their correlations with torrefaction severity index. <i>Applied Energy</i> , 2018 , 220, 598-604	10.7	112
484	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. <i>Bioresource Technology</i> , 2016 , 215, 346-356	11	111
483	Recent Developments on Genetic Engineering of Microalgae for Biofuels and Bio-Based Chemicals. <i>Biotechnology Journal</i> , 2017 , 12, 1600644	5.6	109
482	Temperature effects on biohydrogen production in a granular sludge bed induced by activated carbon carriers. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 465-472	6.7	108
481	Effects of water culture medium, cultivation systems and growth modes for microalgae cultivation: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 91, 332-344	5.3	107
480	Metal biosorption capability of <i>Cupriavidus taiwanensis</i> and its effects on heavy metal removal by nodulated <i>Mimosa pudica</i> . <i>Journal of Hazardous Materials</i> , 2008 , 151, 364-71	12.8	107
479	Bioprocess development on microalgae-based CO ₂ fixation and bioethanol production using <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2013 , 145, 142-9	11	106
478	Microalgae from wastewater treatment to biochar [Feedstock preparation and conversion technologies. <i>Energy Conversion and Management</i> , 2017 , 150, 1-13	10.6	106
477	Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. <i>Bioresource Technology</i> , 2020 , 302, 122817	11	105
476	Dark fermentative hydrogen production from enzymatic hydrolysate of xylan and pretreated rice straw by <i>Clostridium butyricum</i> CGS5. <i>Bioresource Technology</i> , 2010 , 101, 5885-91	11	105
475	Batch and continuous biohydrogen production from starch hydrolysate by <i>Clostridium</i> species. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 1803-1812	6.7	105

474	Impact of torrefaction on the composition, structure and reactivity of a microalga residue. <i>Applied Energy</i> , 2016 , 181, 110-119	10.7	104
473	Synergistic enhancement of glycogen production in <i>Arthrospira platensis</i> by optimization of light intensity and nitrate supply. <i>Bioresource Technology</i> , 2012 , 108, 211-5	11	104
472	Biosorption of mercury by the inactivated cells of <i>Pseudomonas aeruginosa</i> PU21 (Rip64). <i>Biotechnology and Bioengineering</i> , 1994 , 44, 999-1006	4.9	104
471	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 400, 122961	12.8	104
470	Microalgae-microbial fuel cell: A mini review. <i>Bioresource Technology</i> , 2015 , 198, 891-5	11	103
469	Thermal decomposition dynamics and severity of microalgae residues in torrefaction. <i>Bioresource Technology</i> , 2014 , 169, 258-264	11	102
468	Dewatering and Drying Methods for Microalgae. <i>Drying Technology</i> , 2015 , 33, 443-454	2.6	102
467	Effect of solvents and oil content on direct transesterification of wet oil-bearing microalgal biomass of <i>Chlorella vulgaris</i> ESP-31 for biodiesel synthesis using immobilized lipase as the biocatalyst. <i>Bioresource Technology</i> , 2013 , 135, 213-21	11	102
466	Catalytic effects of potassium on biomass pyrolysis, combustion and torrefaction. <i>Applied Energy</i> , 2019 , 235, 346-355	10.7	101
465	Engineering strategies for simultaneous enhancement of C-phycoerythrin production and CO ₂ fixation with <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2013 , 145, 307-12	11	100
464	Isolation of cellulose-hydrolytic bacteria and applications of the cellulolytic enzymes for cellulosic biohydrogen production. <i>Enzyme and Microbial Technology</i> , 2009 , 44, 417-425	3.8	100
463	Lead removal by a magnetic biochar derived from persulfate-ZVI treated sludge together with one-pot pyrolysis. <i>Bioresource Technology</i> , 2018 , 247, 463-470	11	99
462	Algal biomass dehydration. <i>Bioresource Technology</i> , 2013 , 135, 720-9	11	99
461	Stimulation of bacterial decolorization of an azo dye by extracellular metabolites from <i>Escherichia coli</i> strain NO3. <i>Bioresource Technology</i> , 2004 , 91, 243-8	11	99
460	Potential biomedical applications of marine algae. <i>Bioresource Technology</i> , 2017 , 244, 1407-1415	11	98
459	Bioreactor design for enhanced carrier-assisted surfactin production with <i>Bacillus subtilis</i> . <i>Process Biochemistry</i> , 2006 , 41, 1799-1805	4.8	98
458	Recent advances in nanoscale-metal assisted biochar derived from waste biomass used for heavy metals removal. <i>Bioresource Technology</i> , 2017 , 246, 123-134	11	97
457	Supercritical fluid extraction of valuable compounds from microalgal biomass. <i>Bioresource Technology</i> , 2015 , 184, 291-296	11	96

456	Fermentative hydrogen production with a draft tube fluidized bed reactor containing silicone-gel-immobilized anaerobic sludge. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 2200-2210 ^{6.7}	6.7	95
455	Phototrophic cultivation of a thermo-tolerant <i>Desmodesmus</i> sp. for lutein production: effects of nitrate concentration, light intensity and fed-batch operation. <i>Bioresource Technology</i> , 2013 , 144, 435-44 ¹¹	11	94
454	Characterization of flocculating agent from the self-flocculating microalga <i>Scenedesmus obliquus</i> AS-6-1 for efficient biomass harvest. <i>Bioresource Technology</i> , 2013 , 145, 285-9	11	94
453	Waste biorefineries - integrating anaerobic digestion and microalgae cultivation for bioenergy production. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 101-110	11.4	94
452	Fermentative hydrogen production by <i>Clostridium butyricum</i> CGS5 using carbohydrate-rich microalgal biomass as feedstock. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 15458-15464	6.7	93
451	Engineering strategies for improving the CO ₂ fixation and carbohydrate productivity of <i>Scenedesmus obliquus</i> CNW-N used for bioethanol fermentation. <i>Bioresource Technology</i> , 2013 , 143, 163-71	11	92
450	Dynamic metabolic profiling together with transcription analysis reveals salinity-induced starch-to-lipid biosynthesis in alga <i>Chlamydomonas</i> sp. JSC4. <i>Scientific Reports</i> , 2017 , 7, 45471	4.9	90
449	Isothermal and non-isothermal torrefaction characteristics and kinetics of microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2014 , 155, 245-51	11	90
448	CO ₂ , NO _x and SO _x removal from flue gas via microalgae cultivation: a critical review. <i>Biotechnology Journal</i> , 2015 , 10, 829-39	5.6	90
447	Using Taguchi experimental design methods to optimize trace element composition for enhanced surfactin production by <i>Bacillus subtilis</i> ATCC 21332. <i>Process Biochemistry</i> , 2007 , 42, 40-45	4.8	90
446	Adsorption of p-nitrophenols (PNP) on microalgal biochar: Analysis of high adsorption capacity and mechanism. <i>Bioresource Technology</i> , 2017 , 244, 1456-1464	11	89
445	Optimizing biodiesel production in marine <i>Chlamydomonas</i> sp. JSC4 through metabolic profiling and an innovative salinity-gradient strategy. <i>Biotechnology for Biofuels</i> , 2014 , 7, 97	7.8	89
444	Characterization of the flocculating agent from the spontaneously flocculating microalga <i>Chlorella vulgaris</i> JSC-7. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 29-33	3.3	89
443	Improving biohydrogen production in a carrier-induced granular sludge bed by altering physical configuration and agitation pattern of the bioreactor. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 1648-1657	6.7	88
442	Enhancing phototrophic hydrogen production by solid-carrier assisted fermentation and internal optical-fiber illumination. <i>Process Biochemistry</i> , 2006 , 41, 2041-2049	4.8	88
441	Torrefaction operation and optimization of microalga residue for energy densification and utilization. <i>Applied Energy</i> , 2015 , 154, 622-630	10.7	87
440	Recent insights into continuous-flow biodiesel production via catalytic and non-catalytic transesterification processes. <i>Applied Energy</i> , 2017 , 185, 376-409	10.7	87
439	A Holistic Approach to Managing Microalgae for Biofuel Applications. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	87

438	Biological butanol production from microalgae-based biodiesel residues by <i>Clostridium acetobutylicum</i> . <i>Bioresource Technology</i> , 2015 , 184, 379-385	11	86
437	Direct conversion of <i>Spirulina</i> to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013 , 6, 1844	35.4	85
436	Hydrogen production with immobilized sewage sludge in three-phase fluidized-bed bioreactors. <i>Biotechnology Progress</i> , 2003 , 19, 828-32	2.8	85
435	Biodiesel production by enzymatic transesterification catalyzed by <i>Burkholderia</i> lipase immobilized on hydrophobic magnetic particles. <i>Applied Energy</i> , 2012 , 100, 41-46	10.7	84
434	Simultaneous production of biohydrogen and bioethanol with fluidized-bed and packed-bed bioreactors containing immobilized anaerobic sludge. <i>Process Biochemistry</i> , 2007 , 42, 1165-1171	4.8	84
433	Biohydrogen production with anaerobic sludge immobilized by ethylene-vinyl acetate copolymer. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 1375-1381	6.7	84
432	Identification of anti-lung cancer extract from <i>Chlorella vulgaris</i> C-C by antioxidant property using supercritical carbon dioxide extraction. <i>Process Biochemistry</i> , 2010 , 45, 1865-1872	4.8	83
431	H ₂ production with anaerobic sludge using activated-carbon supported packed-bed bioreactors. <i>Biotechnology Letters</i> , 2003 , 25, 133-8	3	82
430	Current advances in biological swine wastewater treatment using microalgae-based processes. <i>Bioresource Technology</i> , 2019 , 289, 121718	11	81
429	Decolorization kinetics of a recombinant <i>Escherichia coli</i> strain harboring azo-dye-decolorizing determinants from <i>Rhodococcus</i> sp.. <i>Biotechnology Letters</i> , 2001 , 23, 631-636	3	81
428	Removal of cephalosporin antibiotics 7-ACA from wastewater during the cultivation of lipid-accumulating microalgae. <i>Bioresource Technology</i> , 2016 , 221, 284-290	11	81
427	Current advances on fermentative biobutanol production using third generation feedstock. <i>Biotechnology Advances</i> , 2017 , 35, 1049-1059	17.8	80
426	Hygroscopic transformation of woody biomass torrefaction for carbon storage. <i>Applied Energy</i> , 2018 , 231, 768-776	10.7	80
425	Enhancing bio-butanol production from biomass of <i>Chlorella vulgaris</i> JSC-6 with sequential alkali pretreatment and acid hydrolysis. <i>Bioresource Technology</i> , 2016 , 200, 557-64	11	79
424	Perspectives on cultivation strategies and photobioreactor designs for photo-fermentative hydrogen production. <i>Bioresource Technology</i> , 2011 , 102, 8484-92	11	79
423	Dispersed ozone flotation of <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2010 , 101, 9092-6	11	79
422	Continuous hydrogen production by anaerobic mixed microflora using a hollow-fiber microfiltration membrane bioreactor. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 950-957	6.7	79
421	Cellulosic hydrogen production with a sequencing bacterial hydrolysis and dark fermentation strategy. <i>Bioresource Technology</i> , 2008 , 99, 8299-303	11	79

420	Biodiesel production from wet microalgae feedstock using sequential wet extraction/transesterification and direct transesterification processes. <i>Bioresource Technology</i> , 2015 , 194, 179-86	11	78
419	Microbial hydrogen production with immobilized sewage sludge. <i>Biotechnology Progress</i> , 2002 , 18, 921-6.8	6.8	78
418	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123431	12.8	78
417	pH-stat photoheterotrophic cultivation of indigenous <i>Chlorella vulgaris</i> ESP-31 for biomass and lipid production using acetic acid as the carbon source. <i>Biochemical Engineering Journal</i> , 2012 , 64, 1-7	4.2	77
416	A pilot-scale high-rate biohydrogen production system with mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 8758-8764	6.7	77
415	Cultivation of <i>Chlorella</i> sp. GD using piggery wastewater for biomass and lipid production. <i>Bioresource Technology</i> , 2015 , 194, 326-33	11	76
414	Biomass based hydrogen production by dark fermentation-recent trends and opportunities for greener processes. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 136-145	11.4	76
413	Establishment of an efficient genetic transformation system in <i>Scenedesmus obliquus</i> . <i>Journal of Biotechnology</i> , 2013 , 163, 61-8	3.7	76
412	Novel approaches of producing bioenergies from microalgae: A recent review. <i>Biotechnology Advances</i> , 2015 , 33, 1219-27	17.8	75
411	Bio-processing of algal bio-refinery: a review on current advances and future perspectives. <i>Bioengineered</i> , 2019 , 10, 574-592	5.7	75
410	High yield bio-butanol production by solvent-producing bacterial microflora. <i>Bioresource Technology</i> , 2012 , 113, 58-64	11	75
409	Wet torrefaction of microalga <i>Chlorella vulgaris</i> ESP-31 with microwave-assisted heating. <i>Energy Conversion and Management</i> , 2017 , 141, 163-170	10.6	75
408	Harvesting of <i>Scenedesmus obliquus</i> FSP-3 using dispersed ozone flotation. <i>Bioresource Technology</i> , 2011 , 102, 82-7	11	75
407	Enhancing phototrophic hydrogen production of <i>Rhodospseudomonas palustris</i> via statistical experimental design. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 940-949	6.7	75
406	Biohydrogen production by a novel integration of dark fermentation and mixotrophic microalgae cultivation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15807-15814	6.7	74
405	Characterization, extraction and purification of lutein produced by an indigenous microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Biochemical Engineering Journal</i> , 2013 , 78, 24-31	4.2	73
404	Fed-batch bioreactor strategies for microbial decolorization of azo dye using a <i>Pseudomonas luteola</i> strain. <i>Biotechnology Progress</i> , 2000 , 16, 979-85	2.8	73
403	Expressing a bacterial mercuric ion binding protein in plant for phytoremediation of heavy metals. <i>Journal of Hazardous Materials</i> , 2009 , 161, 920-5	12.8	72

402	Sequential darkphoto fermentation and autotrophic microalgal growth for high-yield and CO ₂ -free biohydrogen production. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 10944-10953	6.7	72
401	Combining enzymatic hydrolysis and darkphoto fermentation processes for hydrogen production from starch feedstock: A feasibility study. <i>International Journal of Hydrogen Energy</i> , 2008 , 33, 5224-5233	6.7	72
400	Operation strategies for biohydrogen production with a high-rate anaerobic granular sludge bed bioreactor. <i>Enzyme and Microbial Technology</i> , 2004 , 35, 605-612	3.8	72
399	Biosorption of cadmium by CO ₂ -fixing microalga <i>Scenedesmus obliquus</i> CNW-N. <i>Bioresource Technology</i> , 2012 , 105, 74-80	11	71
398	Hydrolysis of lignocellulosic feedstock by novel cellulases originating from <i>Pseudomonas</i> sp. CL3 for fermentative hydrogen production. <i>Bioresource Technology</i> , 2011 , 102, 8628-34	11	71
397	Batch and continuous fermentative production of hydrogen with anaerobic sludge entrapped in a composite polymeric matrix. <i>Process Biochemistry</i> , 2007 , 42, 279-284	4.8	71
396	Removal of antimony (Sb(V)) from Sb mine drainage: biological sulfate reduction and sulfide oxidation-precipitation. <i>Bioresource Technology</i> , 2013 , 146, 799-802	11	70
395	Recovery of high-value metals from geothermal sites by biosorption and bioaccumulation. <i>Bioresource Technology</i> , 2014 , 160, 182-90	11	69
394	Development of lipid productivities under different CO ₂ conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014 , 152, 247-52	11	69
393	Repeated pH-stat fed-batch fermentation for rhamnolipid production with indigenous <i>Pseudomonas aeruginosa</i> S2. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 67-74	5.7	69
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