

Jo-Shu Chang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

545
papers

31,731
citations

93
h-index

147
g-index

560
ext. papers

37,528
ext. citations

8.2
avg, IF

7.93
L-index

#	Paper	IF	Citations
545	Circular bioeconomy approaches for sustainability and carbon mitigation in microalgal biorefinery 2022 , 557-598		
544	The impact of the surfactant type on physicochemical properties, encapsulation, and in vitro biocompatibility of coconut oil nanoemulsions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 104217	5.3	1
543	Integration of Internet-of-Things as sustainable smart farming technology for the rearing of black soldier fly to mitigate food waste. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 104235	5.3	1
542	Continuous cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 154, 111852	16.2	19
541	Fermentative lactic acid production from seaweed hydrolysate using <i>Lactobacillus</i> sp. And <i>Weissella</i> sp. <i>Bioresource Technology</i> , 2022 , 344, 126166	11	4
540	Recent advances and future directions on the valorization of spent mushroom substrate (SMS): A review. <i>Bioresource Technology</i> , 2022 , 344, 126157	11	7
539	Smart sustainable biorefineries for lignocellulosic biomass. <i>Bioresource Technology</i> , 2022 , 344, 126215	11	4
538	Enhanced biodegradation of chlortetracycline via a microalgae-bacteria consortium. <i>Bioresource Technology</i> , 2022 , 343, 126149	11	6
537	Recent advances in lutein production from microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 153, 111795	16.2	11
536	Production of biosurfactants from agro-industrial waste and waste cooking oil in a circular bioeconomy: An overview. <i>Bioresource Technology</i> , 2022 , 343, 126059	11	18
535	Producing fucoxanthin from algae - Recent advances in cultivation strategies and downstream processing. <i>Bioresource Technology</i> , 2022 , 344, 126170	11	9
534	Efficient fucoidan extraction and purification from <i>Sargassum cristaefolium</i> and preclinical dermal biological activity assessments of the purified fucoidans. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 104294	5.3	2
533	Microbial electrolysis: a promising approach for treatment and resource recovery from industrial wastewater.. <i>Bioengineered</i> , 2022 , 13, 8115-8134	5.7	0
532	Immobilization of <i>Chlorella sorokiniana</i> AK-1 in bacterial cellulose by co-culture and its application in wastewater treatment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 104286	5.3	0
531	<i>Haematococcus pluvialis</i> : A potential feedstock for multiple-product biorefining. <i>Journal of Cleaner Production</i> , 2022 , 344, 131103	10.3	4
530	Sustainable strategies for combating hydrocarbon pollution: Special emphasis on mobil oil bioremediation.. <i>Science of the Total Environment</i> , 2022 , 155083	10.2	3
529	Polyhydroxybutyrate (PHB) production from crude glycerol by genetic engineering of <i>Rhodotorula glutinis</i> . <i>Bioresource Technology Reports</i> , 2022 , 101048	4.1	0

528	Role of nitrogen transport for efficient energy conversion potential in low carbon and high nitrogen/phosphorus wastewater by microalgal-bacterial system.. <i>Bioresource Technology</i> , 2022 , 351, 127019	11	0
527	Bioremediation of sulfonamides by a microalgae-bacteria consortium - Analysis of pollutants removal efficiency, cellular composition, and bacterial community.. <i>Bioresource Technology</i> , 2022 , 126964 ¹¹		2
526	Hair growth-promoting effects of Sargassum glaucescens oligosaccharides extracts. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 134, 104307	5.3	0
525	Bioethanol production from Chlorella vulgaris ESP-31 grown in unsterilized swine wastewater.. <i>Bioresource Technology</i> , 2022 , 127086	11	2
524	Lutein production by microalgae using corn starch wastewater pretreated with rapid enzymatic hydrolysis.. <i>Bioresource Technology</i> , 2022 , 126940	11	0
523	Effect of pH on biomass production and carbohydrate accumulation of Chlorella vulgaris JSC-6 under autotrophic, mixotrophic, and photoheterotrophic cultivation.. <i>Bioresource Technology</i> , 2022 , 351, 127021	11	0
522	Synthesis of a novel solid mediator Z-scheme heterojunction photocatalysis CuFeO/Cu/UiO-66-NH for oxidation of dye in water.. <i>Chemosphere</i> , 2022 , 134080	8.4	2
521	Advanced oxidation process based on hydroxyl and sulfate radicals to degrade refractory organic pollutants in landfill leachate.. <i>Chemosphere</i> , 2022 , 134214	8.4	3
520	Enhanced chlortetracycline removal by iron oxide modified spent coffee grounds biochar and persulfate system.. <i>Chemosphere</i> , 2022 , 134654	8.4	1
519	Valorization of wastewater through microalgae as a prospect for generation of biofuel and high-value products. <i>Journal of Cleaner Production</i> , 2022 , 132114	10.3	2
518	Template-based textural modifications of polymeric graphitic carbon nitrides towards waste water treatment.. <i>Chemosphere</i> , 2022 , 302, 134792	8.4	1
517	Enhanced sulfonamides removal via microalgae-bacteria consortium via co-substrate supplementation. <i>Bioresource Technology</i> , 2022 , 127431	11	0
516	Renewable biohydrogen production from straw biomass [Recent advances in pretreatment/hydrolysis technologies and future development. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
515	A comprehensive review on lignocellulosic biomass biorefinery for sustainable biofuel production. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	5
514	Integrating anaerobic digestion and microalgae cultivation for dairy wastewater treatment and potential biochemicals production from the harvested microalgal biomass. <i>Chemosphere</i> , 2021 , 291, 133057	8.4	1
513	Integrating anaerobic digestion with bioelectrochemical system for performance enhancement: A mini review.. <i>Bioresource Technology</i> , 2021 , 345, 126519	11	1
512	Catalytic microwave torrefaction of microalga Chlorella vulgaris FSP-E with magnesium oxide optimized via taguchi approach: A thermo-energetic analysis.. <i>Chemosphere</i> , 2021 , 290, 133374	8.4	0
511	High-level production and extraction of C-phycocyanin from cyanobacteria Synechococcus sp. PCC7002 for antioxidation, antibacterial and lead adsorption. <i>Environmental Research</i> , 2021 , 206, 112283 ^{7.9}		3

510	Biohydrogen production from microalgae for environmental sustainability. <i>Chemosphere</i> , 2021 , 132717	8.4	10
509	Molecular mechanism of arachidonic acid biosynthesis in <i>Porphyridium purpureum</i> promoted by nitrogen limitation. <i>Bioprocess and Biosystems Engineering</i> , 2021 , 44, 1491-1499	3.7	0
508	Prospects and development of algal-bacterial biotechnology in environmental management and protection. <i>Biotechnology Advances</i> , 2021 , 47, 107684	17.8	28
507	Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues. <i>Biotechnology for Biofuels</i> , 2021 , 14, 87	7.8	57
506	Semi-batch cultivation of <i>Chlorella sorokiniana</i> AK-1 with dual carriers for the effective treatment of full strength piggery wastewater treatment. <i>Bioresource Technology</i> , 2021 , 326, 124773	11	24
505	Enhancing carbohydrate repartitioning into lipid and carotenoid by disruption of microalgae starch debranching enzyme. <i>Communications Biology</i> , 2021 , 4, 450	6.7	7
504	Microalgae for biofuels, wastewater treatment and environmental monitoring. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2891-2904	13.3	39
503	Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production. <i>Sustainability</i> , 2021 , 13, 4246	3.6	3
502	Microalgae: The Future Supply House of Biohydrogen and Biogas. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	8
501	The Role of Biochar in Regulating the Carbon, Phosphorus, and Nitrogen Cycles Exemplified by Soil Systems. <i>Sustainability</i> , 2021 , 13, 5612	3.6	11
500	Microalgae as sustainable food and feed sources for animals and humans - Biotechnological and environmental aspects. <i>Chemosphere</i> , 2021 , 271, 129800	8.4	45
499	Converting waste molasses liquor into biohydrogen via dark fermentation using a continuous bioreactor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 16546-16554	6.7	5
498	Energy, exergy, and environmental analyses of renewable hydrogen production through plasma gasification of microalgal biomass. <i>Energy</i> , 2021 , 223, 120025	7.9	6
497	A critical review on various feedstocks as sustainable substrates for biosurfactants production: a way towards cleaner production. <i>Microbial Cell Factories</i> , 2021 , 20, 120	6.4	46
496	Comparative life cycle assessment and economic analysis of methanol/hydrogen production processes for fuel cell vehicles. <i>Journal of Cleaner Production</i> , 2021 , 300, 126959	10.3	8
495	A multi-objective hybrid machine learning approach-based optimization for enhanced biomass and bioactive phycobiliproteins production in <i>Nostoc</i> sp. CCC-403. <i>Bioresource Technology</i> , 2021 , 329, 124908 ¹¹		5
494	Recent Advances in Carbon Dioxide Conversion: A Circular Bioeconomy Perspective. <i>Sustainability</i> , 2021 , 13, 6962	3.6	1
493	Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy. <i>Trends in Plant Science</i> , 2021 , 26, 729-740	13.1	23

492	Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: Equilibrium, kinetic and mechanism modeling. <i>Environmental Pollution</i> , 2021 , 272, 115986	9.3	65
491	Landfill leachate wastewater treatment to facilitate resource recovery by a coagulation-flocculation process via hydrogen bond. <i>Chemosphere</i> , 2021 , 262, 127829	8.4	23
490	Microalgal biosorption of heavy metals: A comprehensive bibliometric review. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123431	12.8	78
489	Isolation and purification of brown algae fucoïdan from <i>Sargassum siliquosum</i> and the analysis of anti-lipogenesis activity. <i>Biochemical Engineering Journal</i> , 2021 , 165, 107798	4.2	13
488	Extraction of polysaccharides from edible mushrooms: Emerging technologies and recent advances. <i>Carbohydrate Polymers</i> , 2021 , 251, 117006	10.3	36
487	Bio-based rhamnolipids production and recovery from waste streams: Status and perspectives. <i>Bioresource Technology</i> , 2021 , 319, 124213	11	26
486	Thermal-Fenton mechanism with sonoprocessing for rapid non-catalytic transesterification of microalgal to biofuel production. <i>Chemical Engineering Journal</i> , 2021 , 408, 127264	14.7	11
485	Biohydrogen production from microalgae-Major bottlenecks and future research perspectives. <i>Biotechnology Journal</i> , 2021 , 16, e2000124	5.6	22
484	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. <i>Energy Conversion and Management</i> , 2021 , 227, 113609	10.6	15
483	Engineering cyanobacteria with enhanced growth in simulated flue gases for high-yield bioethanol production. <i>Biochemical Engineering Journal</i> , 2021 , 165, 107823	4.2	8
482	Microalgae cultivation in wastewater and potential processing strategies using solvent and membrane separation technologies. <i>Journal of Water Process Engineering</i> , 2021 , 39, 101701	6.7	23
481	Progress in biomass torrefaction: Principles, applications and challenges. <i>Progress in Energy and Combustion Science</i> , 2021 , 82, 100887	33.6	147
480	Circular Bioeconomy: An Introduction 2021 , 3-23		2
479	Algae-derived hydrocolloids in foods: applications and health-related issues. <i>Bioengineered</i> , 2021 , 12, 3787-3801	5.7	4
478	Microbial cell factories for the production of polyhydroxyalkanoates. <i>Essays in Biochemistry</i> , 2021 , 65, 337-353	7.6	5
477	Lutein production with <i>Chlorella sorokiniana</i> MB-1-M12 using novel two-stage cultivation strategies - metabolic analysis and process improvement. <i>Bioresource Technology</i> , 2021 , 334, 125200	11	14
476	Liquid triphasic systems as sustainable downstream processing of <i>Chlorella</i> sp. biorefinery for potential biofuels and feed production. <i>Bioresource Technology</i> , 2021 , 333, 125075	11	10
475	Whole-cell biocatalyst for cadaverine production using stable, constitutive and high expression of lysine decarboxylase in recombinant <i>Escherichia coli</i> W3110. <i>Enzyme and Microbial Technology</i> , 2021 , 148, 109811	3.8	6

474	How does the Internet of Things (IoT) help in microalgae biorefinery?. <i>Biotechnology Advances</i> , 2021 , 107819	17.8	9
473	Supercritical water gasification (SCWG) as a potential tool for the valorization of phycoremediation-derived waste algal biomass for biofuel generation. <i>Journal of Hazardous Materials</i> , 2021 , 418, 126278	12.8	11
472	Succinic acid fermentation with immobilized <i>Actinobacillus succinogenes</i> using hydrolysate of carbohydrate-rich microalgal biomass. <i>Bioresource Technology</i> , 2021 , 342, 126014	11	1
471	Independent parallel pyrolysis kinetics of extracted proteins and lipids as well as model carbohydrates in microalgae. <i>Applied Energy</i> , 2021 , 300, 117372	10.7	5
470	Sustainable aquaculture and animal feed from microalgae [Nutritive value and techno-functional components. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111549	16.2	23
469	Emerging algal nanotechnology for high-value compounds: A direction to future food production. <i>Trends in Food Science and Technology</i> , 2021 , 116, 290-302	15.3	9
468	Boosting photo-biochemical conversion and carbon dioxide bio-fixation of <i>Chlorella vulgaris</i> in an optimized photobioreactor with airfoil-shaped deflectors. <i>Bioresource Technology</i> , 2021 , 337, 125355	11	4
467	Effect of molecular mass and sulfate content of fucoidan from <i>Sargassum siliquosum</i> on antioxidant, anti-lipogenesis, and anti-inflammatory activity. <i>Journal of Bioscience and Bioengineering</i> , 2021 , 132, 359-364	3.3	6
466	Pollution prevention and waste phycoremediation by algal-based wastewater treatment technologies: The applications of high-rate algal ponds (HRAPs) and algal turf scrubber (ATS). <i>Journal of Environmental Management</i> , 2021 , 296, 113193	7.9	7
465	Novel application of microalgae platform for biodesalination process: A review. <i>Bioresource Technology</i> , 2021 , 337, 125343	11	4
464	Current advances and future challenges of AIoT applications in particulate matters (PM) monitoring and control. <i>Journal of Hazardous Materials</i> , 2021 , 419, 126442	12.8	6
463	Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects. <i>Bioresource Technology</i> , 2021 , 342, 126021	11	10
462	A review on integrated approaches for municipal solid waste for environmental and economical relevance: Monitoring tools, technologies, and strategic innovations. <i>Bioresource Technology</i> , 2021 , 342, 125982	11	18
461	Basic oxygen furnace slag as a support material for the cultivation of indigenous marine microalgae. <i>Bioresource Technology</i> , 2021 , 342, 125968	11	1
460	Genetic engineering of microalgae for enhanced biorefinery capabilities. <i>Biotechnology Advances</i> , 2020 , 43, 107554	17.8	57
459	Lactic Acid Production from Renewable Feedstocks Using Poly(vinyl alcohol)-Immobilized <i>Lactobacillus plantarum</i> 23. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17156-17164	3.9	15
458	Machine learning-based energy consumption clustering and forecasting for mixed-use buildings. <i>International Journal of Energy Research</i> , 2020 , 44, 9659-9673	4.5	11
457	Optimal design of an integrated renewable-storage energy system in a mixed-use building. <i>International Journal of Energy Research</i> , 2020 , 44, 9646-9658	4.5	5

456	Efficient biotransformation of l-lysine into cadaverine by strengthening pyridoxal 5-phosphate-dependent proteins in <i>Escherichia coli</i> with cold shock treatment. <i>Biochemical Engineering Journal</i> , 2020 , 161, 107659	4.2	17
455	Using low carbon footprint high-pressure carbon dioxide in bioconversion of aspen branch waste for sustainable bioethanol production. <i>Bioresource Technology</i> , 2020 , 313, 123675	11	8
454	Kinetics and thermodynamics dataset of iron oxide reduction using torrefied microalgae for chemical looping combustion. <i>Data in Brief</i> , 2020 , 29, 105261	1.2	3
453	Biodiesel production from heterotrophic oleaginous microalga <i>Thraustochytrium</i> sp. BM2 with enhanced lipid accumulation using crude glycerol as alternative carbon source. <i>Bioresource Technology</i> , 2020 , 306, 123113	11	24
452	Production of microalgal biochar and reducing sugar using wet torrefaction with microwave-assisted heating and acid hydrolysis pretreatment. <i>Renewable Energy</i> , 2020 , 156, 349-360	8.1	27
451	Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction. <i>Fuel</i> , 2020 , 279, 118435	7.1	35
450	Plasma gasification performances of various raw and torrefied biomass materials using different gasifying agents. <i>Bioresource Technology</i> , 2020 , 314, 123740	11	23
449	High-level l-lysine bioconversion into cadaverine with enhanced productivity using engineered <i>Escherichia coli</i> whole-cell biocatalyst. <i>Biochemical Engineering Journal</i> , 2020 , 157, 107547	4.2	10
448	Novel Renewable Double-Energy System for Activated Biochar Production and Thermoelectric Generation from Waste Heat. <i>Energy & Fuels</i> , 2020 , 34, 3383-3393	4.1	5
447	Optimisation of biomass and lipid production of a tropical thraustochytrid <i>Aurantiochytrium</i> sp. UMACC-T023 in submerged-liquid fermentation for large-scale biodiesel production. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020 , 23, 101496	4.2	11
446	Resource recovery from wastewaters using microalgae-based approaches: A circular bioeconomy perspective. <i>Bioresource Technology</i> , 2020 , 302, 122817	11	105
445	Bioremediation of heavy metals using microalgae: Recent advances and mechanisms. <i>Bioresource Technology</i> , 2020 , 303, 122886	11	196
444	Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction. <i>Bioresource Technology</i> , 2020 , 302, 122874	11	15
443	Pretreatment of microalgal biomass for efficient biohydrogen production - Recent insights and future perspectives. <i>Bioresource Technology</i> , 2020 , 302, 122871	11	53
442	Unlocking the Secret of Bio-additive Components in Rubber Compounding in Processing Quality Nitrile Glove. <i>Applied Biochemistry and Biotechnology</i> , 2020 , 191, 1-28	3.2	7
441	Facilitating the enzymatic conversion of lysine to cadaverine in engineered <i>Escherichia coli</i> with metabolic regulation by genes deletion. <i>Biochemical Engineering Journal</i> , 2020 , 156, 107514	4.2	9
440	Kinetic modelling of heterotrophic microalgae culture in wastewater: Storage molecule generation and pollutants mitigation. <i>Biochemical Engineering Journal</i> , 2020 , 157, 107523	4.2	11
439	Cultivating <i>Chlorella sorokiniana</i> AK-1 with swine wastewater for simultaneous wastewater treatment and algal biomass production. <i>Bioresource Technology</i> , 2020 , 302, 122814	11	59

438	Application of computational fluid dynamics (CFD) on the raceway design for the cultivation of microalgae: a review. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2020 , 47, 373-382	4.2	4
437	Continuous cellulosic bioethanol co-fermentation by immobilized <i>Zymomonas mobilis</i> and suspended <i>Pichia stipitis</i> in a two-stage process. <i>Applied Energy</i> , 2020 , 266, 114871	10.7	33
436	Exploring fermentation strategies for enhanced lactic acid production with polyvinyl alcohol-immobilized <i>Lactobacillus plantarum</i> 23 using microalgae as feedstock. <i>Bioresource Technology</i> , 2020 , 308, 123266	11	31
435	Covalent organic framework EB-COF:Br as adsorbent for phosphorus (V) or arsenic (V) removal from nearly neutral waters. <i>Chemosphere</i> , 2020 , 253, 126736	8.4	20
434	Adsorption behavior of Cr(VI) by magnetically modified <i>Enteromorpha prolifera</i> based biochar and the toxicity analysis. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122658	12.8	37
433	Dark fermentative hydrogen production using macroalgae (<i>Ulva</i> sp.) as the renewable feedstock. <i>Applied Energy</i> , 2020 , 262, 114574	10.7	23
432	Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production. <i>Bioresource Technology</i> , 2020 , 312, 123572	11	32
431	Conventional and emerging technologies for removal of antibiotics from wastewater. <i>Journal of Hazardous Materials</i> , 2020 , 400, 122961	12.8	104
430	Structure and Biological Activity Analysis of Fucoïdan Isolated from. <i>ACS Omega</i> , 2020 , 5, 32447-32455	3.9	9
429	Examination of indigenous microalgal species for maximal protein synthesis. <i>Biochemical Engineering Journal</i> , 2020 , 154, 107425	4.2	9
428	Anaerobic granulation: A review of granulation hypotheses, bioreactor designs and emerging green applications. <i>Bioresource Technology</i> , 2020 , 300, 122751	11	46
427	An evaluation of thermal characteristics of bacterium <i>Actinobacillus succinogenes</i> for energy use and circular bioeconomy. <i>Bioresource Technology</i> , 2020 , 301, 122774	11	6
426	Exploring Dual-Substrate Cultivation Strategy of 1,3-Propanediol Production Using <i>Klebsiella pneumoniae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020 , 191, 346-359	3.2	5
425	Adding carbon-based materials on anaerobic digestion performance: A mini-review. <i>Bioresource Technology</i> , 2020 , 300, 122696	11	32
424	Enhanced production of microalgal lipids using a heterotrophic marine microalga <i>Thraustochytrium</i> sp. BM2. <i>Biochemical Engineering Journal</i> , 2020 , 154, 107429	4.2	21
423	A molecular dynamics study on the CO ₂ permeability of microalgae lipid membrane. <i>Journal of Applied Phycology</i> , 2020 , 32, 291-297	3.2	1
422	Microwave-assisted wet torrefaction of microalgae under various acids for coproduction of biochar and sugar. <i>Journal of Cleaner Production</i> , 2020 , 253, 119944	10.3	32
421	Metabolic engineering probiotic yeast produces 3S, 3'S-astaxanthin to inhibit B16F10 metastasis. <i>Food and Chemical Toxicology</i> , 2020 , 135, 110993	4.7	11

420	Bioformulation of biochar as a potential inoculant carrier for sustainable agriculture. <i>Environmental Technology and Innovation</i> , 2020 , 20, 101168	7	16
419	Diverse Enzymes With Industrial Applications in Four Thraustochytrid Genera. <i>Frontiers in Microbiology</i> , 2020 , 11, 573907	5.7	2
418	Immobilization of Hg(II) on high-salinity Spirulina residue-induced biochar from aqueous solutions: Sorption and transformation mechanisms by the dual-mode isotherms. <i>Environmental Pollution</i> , 2020 , 265, 115087	9.3	8
417	Biobutanol production from lignocellulosic biomass using immobilized <i>Clostridium acetobutylicum</i> . <i>Applied Energy</i> , 2020 , 277, 115531	10.7	26
416	Pyrolysis synergy of municipal solid waste (MSW): A review. <i>Bioresource Technology</i> , 2020 , 318, 123912	11	24
415	Effects of dry and wet torrefaction pretreatment on microalgae pyrolysis analyzed by TG-FTIR and double-shot Py-GC/MS. <i>Energy</i> , 2020 , 210, 118579	7.9	13
414	Biofuel from Microalgae: Sustainable Pathways. <i>Sustainability</i> , 2020 , 12, 8009	3.6	28
413	Genome sequencing, assembly, and annotation of the self-flocculating microalga <i>Scenedesmus obliquus</i> AS-6-11. <i>BMC Genomics</i> , 2020 , 21, 743	4.5	5
412	Microalgae with artificial intelligence: A digitalized perspective on genetics, systems and products. <i>Biotechnology Advances</i> , 2020 , 44, 107631	17.8	21
411	A sulfated/chlorinated SrBe composite oxide as a novel solid and reusable superacid catalyst for oleic acid esterification. <i>New Journal of Chemistry</i> , 2020 , 44, 13669-13684	3.6	7
410	Continuous production of algicidal compounds against <i>Akashiwo sanguinea</i> via a <i>Vibrio</i> sp. co-culture. <i>Bioresource Technology</i> , 2020 , 295, 122246	11	7
409	Enhanced biohydrogen production from date seeds by <i>Clostridium thermocellum</i> ATCC 27405. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22271-22280	6.7	31
408	Environmental life cycle comparisons of pig farming integrated with anaerobic digestion and algae-based wastewater treatment. <i>Journal of Environmental Management</i> , 2020 , 264, 110512	7.9	19
407	Microalgae-microbial fuel cell (mMFC): an integrated process for electricity generation, wastewater treatment, CO ₂ sequestration and biomass production. <i>International Journal of Energy Research</i> , 2020 , 44, 9254-9265	4.5	11
406	Isolation and characterization of sp. mutants with enhanced thermo- and CO tolerances for CO sequestration and utilization of flue gases. <i>Biotechnology for Biofuels</i> , 2019 , 12, 251	7.8	16
405	Liquid Biphasic Systems for Oil-Rich Algae Bioproducts Processing. <i>Sustainability</i> , 2019 , 11, 4682	3.6	10
404	Iron oxide reduction by torrefied microalgae for CO ₂ capture and abatement in chemical-looping combustion. <i>Energy</i> , 2019 , 186, 115903	7.9	17
403	Investigation of direct biodiesel production from wet microalgae using definitive screening design. <i>Energy Procedia</i> , 2019 , 158, 1149-1154	2.3	7

402	Design of photobioreactors for algal cultivation 2019 , 225-256		18
401	Investigation of reverse ionic diffusion in forward-osmosis-aided dewatering of microalgae: A molecular dynamics study. <i>Bioresource Technology</i> , 2019 , 279, 181-188	11	14
400	Towards protein production and application by using <i>Chlorella</i> species as circular economy. <i>Bioresource Technology</i> , 2019 , 289, 121625	11	18
399	Application of thermo-separating aqueous two-phase system in extractive bioconversion of polyhydroxyalkanoates by <i>Cupriavidus necator</i> H16. <i>Bioresource Technology</i> , 2019 , 287, 121474	11	17
398	New Prospects for Modified Algae in Heavy Metal Adsorption. <i>Trends in Biotechnology</i> , 2019 , 37, 1255-1268	11	132
397	Mechanism study of photo-induced gold nanoparticles formation by <i>Shewanella oneidensis</i> MR-1. <i>Scientific Reports</i> , 2019 , 9, 7589	4.9	12
396	Recent advances in algae biodiesel production: From upstream cultivation to downstream processing. <i>Bioresource Technology Reports</i> , 2019 , 7, 100227	4.1	52
395	Biogas Upgrading by Microalgae: Strategies and Future Perspectives 2019 , 347-395		2
394	Non-catalytic in-situ (trans) esterification of lipids in wet microalgae <i>Chlorella vulgaris</i> under subcritical conditions for the synthesis of fatty acid methyl esters. <i>Applied Energy</i> , 2019 , 248, 526-537	10.7	24
393	Life cycle assessment of upgraded microalgae-to-biofuel chains. <i>Bioresource Technology</i> , 2019 , 288, 121492	11	21
392	Exploring the potency of integrating semi-batch operation into lipid yield performance of <i>Chlamydomonas</i> sp. Tai-03. <i>Bioresource Technology</i> , 2019 , 285, 121331	11	4
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