Benjamas Cheirsilp

List of Publications by Year
in descending order

115 papers	4,827 citations	101384 36 h-index	102304 66 g-index
115 all docs	115 docs citations	115 times ranked	4988 citing authors

#	Article	IF	Citations
1	Enhanced growth and lipid production of microalgae under mixotrophic culture condition: Effect of light intensity, glucose concentration and fed-batch cultivation. Bioresource Technology, 2012, 110, 510-516.	4.8	598
2	Effect of nitrogen, salt, and iron content in the growth medium and light intensity on lipid production by microalgae isolated from freshwater sources in Thailand. Bioresource Technology, 2011, 102, 3034-3040.	4.8	329
3	Potential use of oleaginous red yeast Rhodotorula glutinis for the bioconversion of crude glycerol from biodiesel plant to lipids and carotenoids. Process Biochemistry, 2011, 46, 210-218.	1.8	292
4	Mixed culture of oleaginous yeast Rhodotorula glutinis and microalga Chlorella vulgaris for lipid production from industrial wastes and its use as biodiesel feedstock. New Biotechnology, 2011, 28, 362-368.	2.4	150
5	Physico-chemical characterization and evaluation of bio-efficacies ofÂblack pepper essential oil encapsulated in hydroxypropyl-beta-cyclodextrin. Food Hydrocolloids, 2017, 65, 157-164.	5.6	145
6	Antioxidant and antimicrobial properties of encapsulated guava leaf oil in hydroxypropyl-beta-cyclodextrin. Industrial Crops and Products, 2018, 111, 219-225.	2.5	139
7	Efficient concomitant production of lipids and carotenoids by oleaginous red yeast Rhodotorula glutinis cultured in palm oil mill effluent and application of lipids for biodiesel production. Biotechnology and Bioprocess Engineering, 2011, 16, 23-33.	1.4	132
8	Potential use of Bacillus subtilis in a co-culture with Clostridium butylicum for acetoneâ€“butanolâ€“ethanol production from cassava starch. Biochemical Engineering Journal, 2010, 48, 260-267.	1.8	131
9	Industrial wastes as a promising renewable source for production of microbial lipid and direct transesterification of the lipid into biodiesel. Bioresource Technology, 2013, 142, 329-337.	4.8	110
10	Enhanced kefiran production by mixed culture of and. Journal of Biotechnology, 2003, 100, 43-53.	1.9	91
11	Mixed lipases for efficient enzymatic synthesis of biodiesel from used palm oil and ethanol in a solvent-free system. Journal of Molecular Catalysis B: Enzymatic, 2010, 67, 52-59.	1.8	88
12	Screening of Oleaginous Yeasts and Optimization for Lipid Production Using Crude Glycerol as a Carbon Source. Energy Procedia, 2011, 9, 274-282.	1.8	87
13	Impact of transesterification mechanisms on the kinetic modeling of biodiesel production by immobilized lipase. Biochemical Engineering Journal, 2008, 42, 261-269.	1.8	84
14	Interactions between Lactobacillus kefiranofaciens and Saccharomyces cerevisiae in mixed culture for kefiran production. Journal of Bioscience and Bioengineering, 2003, 96, 279-284.	1.1	79
15	Calcium-binding peptides derived from tilapia (Oreochromis niloticus) protein hydrolysate. European Food Research and Technology, 2013, 236, 57-63.	1.6	73
16	Biophotolysis-based hydrogen and lipid production by oleaginous microalgae using crude glycerol as exogenous carbon source. International Journal of Hydrogen Energy, 2017, 42, 1970-1976.	3.8	70
17	Valorization of Palm Oil Mill Effluent into Lipid and Cell-Bound Lipase by Marine Yeast Yarrowia lipolytica and Their Application in Biodiesel Production. Waste and Biomass Valorization, 2016, 7, 417-426.	1.8	67
18	Catalytic pyrolysis of petroleum-based and biodegradable plastic waste to obtain high-value chemicals. Waste Management, 2021, 127, 101-111.	3.7	66

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19	Co-culture of an oleaginous yeast Rhodotorula glutinis and a microalga Chlorella vulgaris for biomass and lipid production using pure and crude glycerol as a sole carbon source. Annals of Microbiology, 2012, 62, 987-993.	1.1	61
20	Solid state fermentation by cellulolytic oleaginous fungi for direct conversion of lignocellulosic biomass into lipids: Fed-batch and repeated-batch fermentations. Industrial Crops and Products, 2015, 66, 73-80.	2.5	61
21	Mitigation of carbon dioxide by oleaginous microalgae for lipids and pigments production: Effect of light illumination and carbon dioxide feeding strategies. Bioresource Technology, 2016, 219, 139-149.	4.8	61
22	Strategies to increase the potential use of oleaginous microalgae as biodiesel feedstocks: Nutrient starvations and cost-effective harvesting process. Renewable Energy, 2018, 122, 507-516.	4.3	60
23	Enhancing Lipid Production from Crude Glycerol by Newly Isolated Oleaginous Yeasts: Strain Selection, Process Optimization, and Fed-Batch Strategy. Bioenergy Research, 2013, 6, 300-310.	2.2	58
24	Felled oil palm trunk as a renewable source for biobutanol production by Clostridium spp.. Bioresource Technology, 2013, 146, 200-207.	4.8	57
25	Encapsulation of yarrow essential oil in hydroxypropyl-beta-cyclodextrin: physiochemical characterization and evaluation of bio-efficacies. CYTA - Journal of Food, 2017, 15, 409-417.	0.9	56
26	Immobilized oleaginous microalgae for production of lipid and phytoremediation of secondary effluent from palm oil mill in fluidized bed photobioreactor. Bioresource Technology, 2017, 241, 787-794.	4.8	54
27	A rapid method for harvesting and immobilization of oleaginous microalgae using pellet-forming filamentous fungi and the application in phytoremediation of secondary effluent. International Journal of Phytoremediation, 2018, 20, 1017-1024.	1.7	53
28	Enhanced Lipid Production by Co-cultivation and Co-encapsulation of Oleaginous Yeast Trichosporonoides spathulata with Microalgae in Alginate Gel Beads. Applied Biochemistry and Biotechnology, 2014, 173, 522-534.	1.4	52
29	Optimizing an alginate immobilized lipase for monoacylglycerol production by the glycerolysis reaction. Journal of Molecular Catalysis B: Enzymatic, 2009, 59, 206-211.	1.8	49
30	Effective biogas upgrading and production of biodiesel feedstocks by strategic cultivation of oleaginous microalgae. Energy, 2018, 148, 766-774.	4.5	48
31	Biocapture of CO 2 from biogas by oleaginous microalgae for improving methane content and simultaneously producing lipid. Bioresource Technology, 2014, 170, 90-99.	4.8	47
32	Low-Cost Production of Green Microalga Botryococcus braunii Biomass with High Lipid Content Through Mixotrophic and Photoautotrophic Cultivation. Applied Biochemistry and Biotechnology, 2014, 174, 116-129.	1.4	46
33	Kinetic study of glycerolysis of palm olein for monoacylglycerol production by immobilized lipase. Biochemical Engineering Journal, 2007, 35, 71-80.	1.8	43
34	Production of Butanol from Palm Empty Fruit Bunches Hydrolyzate by Clostridium Acetobutylicum. Energy Procedia, 2011, 9, 140-146.	1.8	39
35	Use of whey lactose from dairy industry for economical kefiran production by Lactobacillus kefiranofaciens in mixed cultures with yeasts. New Biotechnology, 2011, 28, 574-580.	2.4	38
36	Immobilized oleaginous microalgae as effective two-phase purify unit for biogas and anaerobic digester effluent coupling with lipid production. Bioresource Technology, 2019, 281, 149-157.	4.8	38

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37	Modelling and optimization of environmental conditions for kefiran production by Lactobacillus kefiranofaciens. Applied Microbiology and Biotechnology, 2001, 57, 639-646.	1.7	37
38	Co-production of functional exopolysaccharides and lactic acid by Lactobacillus kefiranofaciens originated from fermented milk, kefir. Journal of Food Science and Technology, 2018, 55, 331-340.	1.4	36
39	Industrial Waste Utilization for Low-Cost Production of Raw Material Oil Through Microbial Fermentation. Applied Biochemistry and Biotechnology, 2013, 169, 110-122.	1.4	35
40	PROCESSING OF BANANAâ€BASED WINE PRODUCT USING PECTINASE AND Î±â€AMYLASE. Journal of Food Process Engineering, 2008, 31, 78-90.	1.5	34
41	Enhanced valorization of industrial wastes for biodiesel feedstocks and biocatalyst by lipolytic oleaginous yeast and biosurfactant-producing bacteria. International Biodeterioration and Biodegradation, 2020, 148, 104911.	1.9	34
42	Production and properties of two collagenases from bacteria and their application for collagen extraction. New Biotechnology, 2011, 28, 649-655.	2.4	33
43	Valorization of palm biomass wastes for biodiesel feedstock and clean solid biofuel through non-sterile repeated solid-state fermentation. Bioresource Technology, 2020, 298, 122551.	4.8	32
44	Microbial fuel cells with Photosynthetic-Cathodic chamber in vertical cascade for integrated Bioelectricity, biodiesel feedstock production and wastewater treatment. Bioresource Technology, 2022, 346, 126559.	4.8	31
45	Pilot-scale steam explosion for xylose production from oil palm empty fruit bunches and the use of xylose for ethanol production. Bioresource Technology, 2016, 203, 252-258.	4.8	30
46	Bioconversion of lignocellulosic palm byproducts into enzymes and lipid by newly isolated oleaginous fungi. Biochemical Engineering Journal, 2014, 88, 95-100.	1.8	29
47	Continuous production of Î²-cyclodextrin by cyclodextrin glycosyltransferase immobilized in mixed gel beads: Comparative study in continuous stirred tank reactor and packed bed reactor. Biochemical Engineering Journal, 2016, 105, 107-113.	1.8	29
48	Strategies to improve methane content in biogas by cultivation of oleaginous microalgae and the evaluation of fuel properties of the microalgal lipids. Renewable Energy, 2017, 113, 1229-1241.	4.3	29
49	Direct transesterification of oleaginous yeast lipids into biodiesel: Development of vigorously stirred tank reactor and process optimization. Biochemical Engineering Journal, 2018, 137, 232-238.	1.8	29
50	Zero-waste biorefinery of oleaginous microalgae as promising sources of biofuels and biochemicals through direct transesterification and acid hydrolysis. Process Biochemistry, 2020, 95, 214-222.	1.8	29
51	Synergistic production of highly active enzymatic cocktails from lignocellulosic palm wastes by sequential solid state-submerged fermentation and co-cultivation of different filamentous fungi. Biochemical Engineering Journal, 2021, 173, 108086.	1.8	27
52	Lipid Production from Hemicellulose and Holocellulose Hydrolysate of Palm Empty Fruit Bunches by Newly Isolated Oleaginous Yeasts. Applied Biochemistry and Biotechnology, 2015, 176, 1801-1814.	1.4	26
53	Photoautotrophic cultivation of oleaginous microalgae and co-pelletization with filamentous fungi for cost-effective harvesting process and improved lipid yield. Aquaculture International, 2018, 26, 1493-1509.	1.1	26
54	Potential use of flocculating oleaginous yeasts for bioconversion of industrial wastes into biodiesel feedstocks. Renewable Energy, 2019, 136, 1311-1319.	4.3	26

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55	Continuous production of monoacylglycerols from palm olein in packed-bed reactor with immobilized lipase PS. Biochemical Engineering Journal, 2008, 40, 116-120.	1.8	25
56	Optimization of flocculation efficiency of lipid-rich marine Chlorella sp. biomass and evaluation of its composition in different cultivation modes. Bioresource Technology, 2015, 182, 89-97.	4.8	23
57	Integrated protein extraction with bio-oil production for microalgal biorefinery. Algal Research, 2020, 48, 101918.	2.4	23
58	Stepwise-incremental physicochemical factors induced acclimation and tolerance in oleaginous microalgae to crucial outdoor stresses and improved properties as biodiesel feedstocks. Bioresource Technology, 2021, 328, 124850.	4.8	23
59	Consolidated bioprocesses for efficient bioconversion of palm biomass wastes into biodiesel feedstocks by oleaginous fungi and yeasts. Bioresource Technology, 2020, 315, 123893.	4.8	22
60	Effectiveness of using two-stage anaerobic digestion to recover bio-energy from high strength palm oil mill effluents with simultaneous treatment. Journal of Water Process Engineering, 2021, 39, 101661.	2.6	21
61	Sago starch as a low-cost carbon source for exopolysaccharide production by Lactobacillus kefiranofaciens. World Journal of Microbiology and Biotechnology, 2008, 24, 1195-1201.	1.7	20
62	Evaluation of optimal conditions for cultivation of marine Chlorella sp. as potential sources of lipids, exopolymeric substances and pigments. Aquaculture International, 2016, 24, 313-326.	1.1	20
63	Symbiotic Bacteroides and Clostridium-rich methanogenic consortium enhanced biogas production of high-solid anaerobic digestion systems. Bioresource Technology Reports, 2021, 14, 100685.	1.5	20
64	Enhanced thermal stability of cyclodextrin glycosyltransferase in alginateâ€“gelatin mixed gel beads and the application for Î²-cyclodextrin production. Biocatalysis and Agricultural Biotechnology, 2015, 4, 717-726.	1.5	17
65	Decanter cake waste as a renewable substrate for biobutanol production by Clostridium beijerinckii. Process Biochemistry, 2013, 48, 1933-1941.	1.8	16
66	Biodiesel derived crude glycerol and tuna condensate as an alternative low-cost fermentation medium for ethanol production by Enterobacter aerogenes. Industrial Crops and Products, 2019, 138, 111451.	2.5	16
67	Mathematical modeling of ethanol production from glycerol by Enterobacter aerogenes concerning the influence of impurities, substrate, and product concentration. Biochemical Engineering Journal, 2020, 155, 107471.	1.8	16
68	Lipid Profile, Antioxidant and Antihypertensive Activity, and Computational Molecular Docking of Diatom Fatty Acids as ACE Inhibitors. Antioxidants, 2022, 11, 186.	2.2	15
69	Techno-economic analysis and environmental impact of biovalorization of agro-industrial wastes for biodiesel feedstocks by oleaginous yeasts. Sustainable Environment Research, 2020, 30, .	2.1	14
70	Insight on zero waste approach for sustainable microalgae biorefinery: Sequential fractionation, conversion and applications for high-to-low value-added products. Bioresource Technology Reports, 2022, 18, 101003.	1.5	14
71	Combination of Superheated Steam Explosion and Alkaline Autoclaving Pretreatment for Improvement of Enzymatic Digestibility of the Oil Palm Tree Residues as Alternative Sugar Sources. Waste and Biomass Valorization, 2019, 10, 3009-3023.	1.8	13
72	Development of Acetone Butanol Ethanol (ABE) Production from Palm Pressed Fiber by Mixed Culture of Clostridium sp. and Bacillus sp.. Energy Procedia, 2011, 9, 459-467.	1.8	12

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73	Effect of substrate concentration and temperature on the kinetics and thermal stability of cyclodextrin glycosyltransferase for the production of Î²-cyclodextrin: Experimental results vs. mathematical model. Process Biochemistry, 2011, 46, 1399-1404.	1.8	12
74	Determination of reaction kinetics of hydrolysis of tilapia (<scp>O</scp>reochromis niloticus) protein for manipulating production of bioactive peptides with antioxidant activity, angiotensinâ€<scp>I</scp>â€converting enzyme inhibitory activity and <scp>C</scp>aâ€binding properties. International Journal of Food Science and Technology, 2013, 48, 419-428.	1.3	12
75	Enhanced production of astaxanthin and co-bioproducts from microalga Haematococcus sp. integrated with valorization of industrial wastewater under two-stage LED light illumination strategy. Environmental Technology and Innovation, 2022, 28, 102620.	3.0	12
76	Optimal conditions for the production of monoacylglycerol from crude palm oil by an enzymatic glycerolysis reaction and recovery of carotenoids from the reaction product. International Journal of Food Science and Technology, 2012, 47, 793-800.	1.3	11
77	Marine Protists and Rhodotorula Yeast as Bio-Convertors of Marine Waste into Nutrient-Rich Deposits for Mangrove Ecosystems. Protist, 2020, 171, 125738.	0.6	11
78	Valorization of palm oil mill wastewater for integrated production of microbial oil and biogas in a biorefinery approach. Journal of Cleaner Production, 2021, 296, 126606.	4.6	11
79	Purification and characterization of a highly-stable fungal xylanase from Aspergillus tubingensis cultivated on palm wastes through combined solid-state and submerged fermentation. Preparative Biochemistry and Biotechnology, 2022, 52, 311-317.	1.0	11
80	Kinetic characteristics of Î²-cyclodextrin production by cyclodextrin glycosyltransferase from newly isolated Bacillus sp. C26. Electronic Journal of Biotechnology, 2010, 13, .	1.2	10
81	Biological Pretreatment of Empty Fruit Bunch (EFB) Using Oleaginous <i>Aspergillus tubingensis</i> TSIP9. Journal of Water and Environment Technology, 2019, 17, 244-250.	0.3	10
82	Use of low-cost substrates for cost-effective production of extracellular and cell-bound lipases by a newly isolated yeast Dipodascus capitatus A4C. Biocatalysis and Agricultural Biotechnology, 2019, 19, 101102.	1.5	10
83	Improve biotransformation of crude glycerol to ethanol of Enterobacter aerogenes by two-stage redox potential fed-batch process under microaerobic environment. Biomass and Bioenergy, 2020, 134, 105503.	2.9	10
84	Optimizing physicochemical factors for two-stage cultivation of newly isolated oleaginous microalgae from local lake as promising sources of pigments, PUFAs and biodiesel feedstocks. Bioresource Technology Reports, 2021, 15, 100738.	1.5	10
85	Kinetic modeling of kefiran production in mixed culture of Lactobacillus kefiranofaciens and Saccharomyces cerevisiae. Process Biochemistry, 2007, 42, 570-579.	1.8	9
86	Direct Conversion of Sugars and Organic Acids to Biobutanol by Non-growing Cells of Clostridium spp. Incubated in a Nitrogen-Free Medium. Applied Biochemistry and Biotechnology, 2013, 171, 1726-1738.	1.4	9
87	Intensifying Clean Energy Production Through Cultivating Mixotrophic Microalgae from Digestates of Biogas Systems: Effects of Light Intensity, Medium Dilution, and Cultivating Time. Bioenergy Research, 2017, 10, 103-114.	2.2	9
88	Statistical optimization of halophilic chitosanase and protease production by Bacillus cereus HMRSC30 isolated from Terasi simultaneous with chitin extraction from shrimp shell waste. Biocatalysis and Agricultural Biotechnology, 2021, 31, 101918.	1.5	9
89	The Occurrence of Triple Catalytic Characteristics of Yeast Lipases and Their Application Prospects in Biodiesel Production from Non-Edible Jatropha curcas Oil in a Solvent-Free System. Current Microbiology, 2021, 78, 1914-1925.	1.0	9
90	Potential use of industrial by-products as promising feedstock for microbial lipid and lipase production and direct transesterification of wet yeast into biodiesel by lipase and acid catalysts. Bioresource Technology, 2022, 348, 126742.	4.8	9

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91	Two-stage repeated-batch fermentation of immobilized Clostridium beijerinckii on oil palm fronds for solvents production. Process Biochemistry, 2015, 50, 1167-1176.	1.8	8
92	Biodegradation efficiencies and economic feasibility of single-stage and two-stage anaerobic digestion of desulfated Skim Latex Serum (SLS) by using rubber wood ash. Chemical Engineering Research and Design, 2022, 162, 721-732.	2.7	8
93	Metagenomic insights into bioaugmentation and biovalorization of oily industrial wastes by lipolytic oleaginous yeast Yarrowia lipolytica during successive batch fermentation. Biotechnology and Applied Biochemistry, 2020, 67, 1020-1029.	1.4	7
94	Mixotrophic Cultivation: Biomass and Biochemical Biosynthesis for Biofuel Production. , 2020, , 51-67.		7
95	Multilayered Nano-Entrapment of Lipase through Organic-Inorganic Hybrid Formation and the Application in Cost-Effective Biodiesel Production. Applied Biochemistry and Biotechnology, 2021, 193, 165-187.	1.4	7
96	Optimization of protease production by Bacillus cereus HMRSC30 for simultaneous extraction of chitin from shrimp shell with value-added recovered products. Environmental Science and Pollution Research, 2022, 29, 22163-22178.	2.7	7
97	Phytoremediation of Secondary Effluent from Palm Oil Mill by Using Oleaginous Microalgae for Integrated Lipid Production and Pollutant Removal. Waste and Biomass Valorization, 2017, 8, 2889-2897.	1.8	6
98	Efficient Harvesting of Microalgal biomass and Direct Conversion of Microalgal Lipids into Biodiesel. , 2020, , 83-96.		6
99	Oleaginous Microalgae Cultivation for Biogas Upgrading and Phytoremediation of Wastewater. , 2020, , 69-82.		6
100	Characterization of bio-oil and biochar from slow pyrolysis of oil palm plantation and palm oil mill wastes. Biomass Conversion and Biorefinery, 2023, 13, 13813-13825.	2.9	6
101	Low-cost production of cell-bound lipases by pure and co-culture of yeast and bacteria in palm oil mill effluent and the applications in bioremediation and biodiesel synthesis. Biomass Conversion and Biorefinery, 0, , 1.	2.9	5
102	Impact of environmental factors on Streptomyces spp. metabolites against Botrytis cinerea. Journal of Basic Microbiology, 2022, 62, 611-622.	1.8	5
103	Application of palm oil mill waste to enhance biogas upgrading and hornwort cultivation. Journal of Environmental Management, 2022, 309, 114678.	3.8	5
104	Utilization of palm oil mill effluent as a novel substrate for the production of antifungal compounds by Streptomyces philanthi RM-1-138 and evaluation of its efficacy in suppression of three strains of oil palm pathogen. Journal of Applied Microbiology, 2022, 132, 1990-2003.	1.4	4
105	Encapsulation of Essential Oils by Cyclodextrins: Characterization and Evaluation. , 0, , .		3
106	Acid Hydrolysis of Brewersâ€™ Industrial Wastes and Their Use for Lipid Production by Oleaginous Yeasts. Journal of Water and Environment Technology, 2019, 17, 336-344.	0.3	3
107	Designation of rice cake starters for fermented rice products with desired characteristics and fast fermentation. Journal of Food Science and Technology, 2019, 56, 3014-3022.	1.4	3
108	Production of Chitosanase by Lentzea sp. OUR-I1 Using Acid-Pretreated Shrimp Shell in an Air-Lift Bioreactor and the Feasibility of Utilizing the Residual Biomass. Waste and Biomass Valorization, 2021, 12, 2445-2458.	1.8	3

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109	Palm Oil Decanter Cake Wastes as Alternative Nutrient Sources and Biomass Support Particles for Production of Fungal Whole-Cell Lipase and Application as Low-Cost Biocatalyst for Biodiesel Production. Processes, 2021, 9, 1365.	1.3	3
110	Development of Co-Culture Systems of Lactic Acid Bacteria and Yeasts for Bioproduction. Japanese Journal of Lactic Acid Bacteria, 2005, 16, 2-10.	0.1	2
111	Efficient of Acid Hydrolysis of Oil Palm Empty Fruit Bunch Residues for Xylose and Highly Digestible Cellulose Pulp Productions. Waste and Biomass Valorization, 2018, 9, 2041-2051.	1.8	2
112	Palm oil decanter cake wastes as alternative nutrient sources for production of enzymes from Streptomyces philanthi RM-1-138 and the efficacy of its culture filtrate as an antimicrobial agent against plant pathogenic fungi and bacteria. Biomass Conversion and Biorefinery, 2024, 14, 1895-1904.	2.9	2
113	A modified approach for high-quality RNA extraction of spore-forming Bacillus subtilis at varied physiological stages. Molecular Biology Reports, 2021, 48, 6757-6768.	1.0	1
114	Cultivation of Chlorella sp. Using Industrial Effluents for Lipid Production. Advanced Materials Research, 2014, 931-932, 1111-1116.	0.3	0
115	Biovalorization of whole old oil palm trunk as low-cost nutrient sources for biomass and lipid production by oleaginous yeasts through batch and fed-batch fermentation. Biomass Conversion and Biorefinery, 2024, 14, 5251-5260.	2.9	0