

Chi-Wei Lan

List of Publications by Year in descending order

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80
papers

2,263
citations

257450

24
h-index

233421

45
g-index

80
all docs

80
docs citations

80
times ranked

2849
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of citric acid production from <i>Aspergillus niger</i> . <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , 2015, 8, 271-283.	1.1	182
2	Microalgae from wastewater treatment to biochar – Feedstock preparation and conversion technologies. <i>Energy Conversion and Management</i> , 2017, 150, 1-13.	9.2	144
3	Recent advances on the sustainable approaches for conversion and reutilization of food wastes to valuable bioproducts. <i>Bioresource Technology</i> , 2020, 302, 122889.	9.6	144
4	Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: Insights from the recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2014, 180, 52-65.	3.8	121
5	Novel approaches of producing bioenergies from microalgae: A recent review. <i>Biotechnology Advances</i> , 2015, 33, 1219-1227.	11.7	92
6	Current applications of different type of aqueous two-phase systems. <i>Bioresources and Bioprocessing</i> , 2015, 2, .	4.2	85
7	Effects of biodiesel on emissions of regulated air pollutants and polycyclic aromatic hydrocarbons under engine durability testing. <i>Atmospheric Environment</i> , 2007, 41, 7232-7240.	4.1	84
8	The impact of monochromatic blue and red LED light upon performance of photo microbial fuel cells (PMFCs) using <i>Chlamydomonas reinhardtii</i> transformation F5 as biocatalyst. <i>Biochemical Engineering Journal</i> , 2013, 78, 39-43.	3.6	77
9	A comprehensive review on lignocellulosic biomass biorefinery for sustainable biofuel production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 1481-1498.	7.1	75
10	Development of polyhydroxyalkanoates production from waste feedstocks and applications. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 282-292.	2.2	71
11	Economic and environmental analysis of PHAs production process. <i>Clean Technologies and Environmental Policy</i> , 2017, 19, 1941-1953.	4.1	68
12	Direct purification of <i>Burkholderia Pseudomallei</i> lipase from fermentation broth using aqueous two-phase systems. <i>Biotechnology and Bioprocess Engineering</i> , 2009, 14, 811-818.	2.6	56
13	Isolation of C-phycoerythrin from <i>Spirulina platensis</i> microalga using ionic liquid based aqueous two-phase system. <i>Bioresource Technology</i> , 2018, 270, 320-327.	9.6	55
14	Performance and kinetic study of photo microbial fuel cells (PMFCs) with different electrode distances. <i>Applied Energy</i> , 2012, 100, 100-105.	10.1	54
15	Recent development in the production strategies of microbial carotenoids. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 12.	3.6	45
16	Enriched Astaxanthin Extract from <i>Haematococcus pluvialis</i> Augments Growth Factor Secretions to Increase Cell Proliferation and Induces MMP1 Degradation to Enhance Collagen Production in Human Dermal Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2016, 17, 955.	4.1	44
17	Novel lipase purification methods – a review of the latest developments. <i>Biotechnology Journal</i> , 2015, 10, 31-44.	3.5	37
18	Application of biodiesel as carrier for insecticide emulsifiable concentrate formulation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2012, 43, 578-584.	5.3	34

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19	Production and characterization of ectoine using a moderately halophilic strain <i>Halomonas salina</i> BCRC17875. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 578-584.	2.2	34
20	Preliminary integrated economic and environmental analysis of polyhydroxyalkanoates (PHAs) biosynthesis. <i>Bioresources and Bioprocessing</i> , 2016, 3, .	4.2	29
21	Exploring redox-mediating characteristics of textile dye-bearing microbial fuel cells: thionin and malachite green. <i>Bioresource Technology</i> , 2014, 169, 277-283.	9.6	28
22	Recovery of mangostins from <i>Garcinia mangostana</i> peels with an aqueous micellar biphasic system. <i>Food and Bioproducts Processing</i> , 2017, 102, 233-240.	3.6	27
23	Study on the Performance of Lambda Cyhalothrin Microemulsion with Biodiesel as an Alternative Solvent. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4710-4718.	3.7	25
24	Thermoseparating aqueous two-phase systems: Recent trends and mechanisms. <i>Journal of Separation Science</i> , 2016, 39, 640-647.	2.5	25
25	Recovery of intracellular ectoine from <i>Halomonas salina</i> cells with poly(propylene) glycol/salt aqueous biphasic system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 82, 28-32.	5.3	25
26	Single step purification of bromelain from <i>Ananas comosus</i> pulp using a polymer/salt aqueous biphasic system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 158-162.	5.3	24
27	Producing bioethanol from pretreated-wood dust by simultaneous saccharification and co-fermentation process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 43-48.	5.3	24
28	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.	9.6	23
29	Docosahexaenoic acid production from crude glycerol by <i>Schizochytrium limacinum</i> SR21. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2209-2216.	4.1	22
30	Aqueous biphasic system for the partial purification of <i>Bacillus subtilis</i> carboxymethyl cellulase. <i>Process Biochemistry</i> , 2017, 58, 276-281.	3.7	22
31	Extraction and purification of Polyhydroxyalkanoates (PHAs): application of Thermoseparating aqueous two-phase extraction. <i>Journal of Polymer Research</i> , 2017, 24, 1.	2.4	22
32	Title is missing!. <i>Bioseparation</i> , 1999, 8, 43-51.	0.7	21
33	Partition separation and characterization of the polyhydroxyalkanoates synthase produced from recombinant <i>Escherichia coli</i> using an aqueous two-phase system. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 499-505.	2.2	21
34	Investigation and Characterization of Plasma-Treated Poly(3-hydroxybutyrate) and Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Biopolymers for an In Vitro Cellular Study of Mouse Adipose-Derived Stem Cells. <i>Polymers</i> , 2018, 10, 355.	4.5	21
35	Cloud-point extraction of green-polymers from <i>Cupriavidus necator</i> lysate using thermoseparating-based aqueous two-phase extraction. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 370-375.	2.2	19
36	Kinetic characteristics of biodegradation of methyl orange by <i>Pseudomonas putida</i> mt2 in suspended and immobilized cell systems. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 780-785.	5.3	18

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37	Direct recovery of <i>Bacillus subtilis</i> xylanase from fermentation broth with an alcohol/salt aqueous biphasic system. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 585-589.	2.2	18
38	Development of <i>Aurantiochytrium limacinum</i> SR21 cultivation using salt-rich waste feedstock for docosahexaenoic acid production and application of natural colourant in food product. <i>Bioresource Technology</i> , 2019, 271, 30-36.	9.6	18
39	Aerobic utilization of crude glycerol by recombinant <i>Escherichia coli</i> for simultaneous production of poly 3-hydroxybutyrate and bioethanol. <i>Journal of Bioscience and Bioengineering</i> , 2014, 117, 343-350.	2.2	17
40	Thermo-sensitive aqueous biphasic extraction of polyphenols from <i>Camellia sinensis</i> var. <i>assamica</i> leaves. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 151-157.	5.3	16
41	Exploring the glyphosate-degrading characteristics of a newly isolated, highly adapted indigenous bacterial strain, <i>Providencia rettgeri</i> GDB 1. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 80-87.	2.2	16
42	Recent development of unconventional aqueous biphasic system: characteristics, mechanisms and applications. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 555-569.	9.0	16
43	Exploring the fermentation characteristics of a newly isolated marine bacteria strain, <i>Gordonia terrae</i> TWRH01 for carotenoids production. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 187-194.	2.2	16
44	Characteristics of trans,trans-2,4-decadienal and polycyclic aromatic hydrocarbons in exhaust of diesel engine fueled with biodiesel. <i>Atmospheric Environment</i> , 2007, 41, 3373-3380.	4.1	15
45	Direct recovery of mangostins from <i>Garcinia mangostana</i> pericarps using cellulase-assisted aqueous micellar biphasic system with recyclable surfactant. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 507-513.	2.2	13
46	Deciphering electron-shuttling characteristics of microalgal metabolites upon bioelectricity-generating community in microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2019, 144, 148-156.	3.6	13
47	Partition efficiency of cytochrome c with alcohol/salt aqueous biphasic flotation system. <i>Journal of Bioscience and Bioengineering</i> , 2020, 129, 237-241.	2.2	13
48	Enhanced polyhydroxybutyrate production through incorporation of a hydrogen fuel cell and electro-fermentation system. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 16787-16800.	7.1	13
49	In vitro evidence of chain transfer to tetraethylene glycols in enzymatic polymerization of polyhydroxyalkanoate. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 4821-4829.	3.6	12
50	Primary recovery of recombinant human serum albumin from transgenic <i>Oryza sativa</i> with a single-step aqueous biphasic system. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 84, 60-66.	5.3	11
51	Exploring useful fermentation strategies for the production of hydroxyectoine with a halophilic strain, <i>Halomonas salina</i> BCRC 17875. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 332-336.	2.2	11
52	Characterization of alcohol/salt aqueous two-phase system for optimal separation of gallic acids. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 537-542.	2.2	11
53	Enhancement of protein production using synthetic brewery wastewater by <i>Haematococcus pluvialis</i> . <i>Journal of Biotechnology</i> , 2022, 350, 1-10.	3.8	11
54	Integrated extractive disruption of <i>Gordonia terrae</i> cells with direct recovery of carotenoids using alcohol/salt aqueous biphasic system. <i>Separation and Purification Technology</i> , 2019, 223, 107-112.	7.9	10

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55	Primary purification of intracellular <i>Halomonas salina</i> ectoine using ionic liquids-based aqueous biphasic system. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 200-204.	2.2	10
56	Efficiency of Ionic Liquids-Based Aqueous Two-phase Electrophoresis for Partition of Cytochrome c. <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 376-386.	2.9	9
57	Primary capture of <i>Bacillus subtilis</i> xylanase from crude feedstock using alcohol/salt liquid biphasic flotation. <i>Biochemical Engineering Journal</i> , 2021, 165, 107835.	3.6	9
58	Functional Ginger Extracts from Supercritical Fluid Carbon Dioxide Extraction via <i>In Vitro</i> and <i>In Vivo</i> Assays: Antioxidation, Antimicroorganism, and Mice Xenografts Models. <i>Scientific World Journal</i> , The, 2013, 2013, 1-8.	2.1	8
59	A fermentation strategy for anti-MUC1 C595 diabody expression in recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 425-431.	2.6	7
60	Statistical Design of Experimental and Bootstrap Neural Network Modelling Approach for Thermoseparating Aqueous Two-Phase Extraction of Polyhydroxyalkanoates. <i>Polymers</i> , 2018, 10, 132.	4.5	7
61	Exploring the additive bio-agent impacts upon ectoine production by <i>Halomonas salina</i> DSM5928T using corn steep liquor and soybean hydrolysate as nutrient supplement. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 195-199.	2.2	7
62	Comparison of two matrices for selective recovery of C595 diabody fragment (dbFv) from <i>Escherichia coli</i> lysates. <i>Process Biochemistry</i> , 2007, 42, 335-343.	3.7	6
63	Incorporation of electric fields to ionic liquids-based aqueous biphasic system for enhanced recovery of extracellular <i>Kytococcus sedentarius</i> TWHKC01 keratinase. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 125, 35-40.	5.3	6
64	Optimization of recovery of esterase from <i>Serratia marcescens</i> using combination of the solvent impregnated resin and aqueous two-phase extraction techniques. <i>Separation Science and Technology</i> , 2018, 53, 2952-2960.	2.5	5
65	Recovery efficiency of a hydrophilic ionic-liquid aqueous biphasic system for the primary purification of cytochrome c from simulated <i>Saccharomyces cerevisiae</i> fermentation broth. <i>Process Biochemistry</i> , 2020, 94, 110-115.	3.7	5
66	Integrated fluidized bed affinity recovery of an anti-MUC1 mucin recombinant diabody from <i>Escherichia coli</i> lysates. <i>Separation and Purification Technology</i> , 2011, 83, 204-207.	7.9	4
67	Direct recovery of polyhydroxyalkanoates synthase from recombinant <i>Escherichia coli</i> feedstock by using aqueous two-phase systems. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1119-1125.	5.3	4
68	Efficient production of mutant phytase (phyA-7) derived from <i>Selenomonas ruminantium</i> using recombinant <i>Escherichia coli</i> in pilot scale. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 305-310.	2.2	4
69	Efficiency of polymer/salt aqueous two-phase electrophoresis system for recovery of extracellular <i>Kytococcus sedentarius</i> TWHKC01 keratinase. <i>Process Biochemistry</i> , 2021, 100, 199-206.	3.7	4
70	Deciphering synergistic characteristics of redox mediators-stimulated echinenone production of <i>Gordonia terrae</i> TWIH01. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 322-329.	2.2	3
71	Enhanced recovery of astaxanthin from recombinant <i>Kluyveromyces marxianus</i> with ultrasonication-assisted alcohol/salt aqueous biphasic system. <i>Journal of Bioscience and Bioengineering</i> , 2021, 132, 513-518.	2.2	3
72	Efficacy of alcohol/sugar aqueous biphasic system on partition of bovine serum albumin. <i>Bioresources and Bioprocessing</i> , 2021, 8, .	4.2	3

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73	Application of AC-Impedance in microbial cultivation system for in-situ biomass measurements. Journal of the Taiwan Institute of Chemical Engineers, 2022, 136, 104405.	5.3	3
74	Production of an anti-MUC1 C595 dbFv antibody fragment in recombinant Escherichia coli. Process Biochemistry, 2007, 42, 77-82.	3.7	2
75	Feasibility study on production of biodegradable polymer and wastewater treatment using Aeromonas strains for materials recycling. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 648-652.	5.3	2
76	Surfactant as an Additive for the Recovery of Potent Antioxidants from Garcinia mangostana Pericarps Using a Polymer/Salt Aqueous Biphasic System. Applied Biochemistry and Biotechnology, 2020, 191, 273-283.	2.9	2
77	Extractive fermentation of Kytococcus sedentarius TWHKC01 using the aqueous biphasic system for direct recovery of keratinase. Journal of the Taiwan Institute of Chemical Engineers, 2022, 137, 104232.	5.3	2
78	Building XML-Based Unified User Interface System under J2EE Architecture. Annals of Software Engineering, 2001, 12, 241-256.	0.5	0
79	Evaluation of Aqueous Biphasic Electrophoresis System Based on Halide-Free Ionic Liquids for Direct Recovery of Keratinase. Marine Drugs, 2021, 19, 463.	4.6	0
80	Evaluation of ionic liquids/salt aqueous biphasic flotation system on recovery of Kytococcus sedentarius TWHKC01 keratinase from crude feedstock. Journal of the Taiwan Institute of Chemical Engineers, 2022, , 104198.	5.3	0