Tau Chuan Ling

List of Publications by Year
in descending order

114 papers	3,949 citations	117625 34 h-index	133252 59 g-index
117 all docs	117 docs citations	117 times ranked	4128 citing authors

#	Article	IF	Citations
1	Biosequestration of atmospheric CO2 and flue gas-containing CO2 by microalgae. Bioresource Technology, 2015, 184, 190-201.	9.6	417
2	Pullulanase: Role in Starch Hydrolysis and Potential Industrial Applications. Enzyme Research, 2012, 2012, 1-14.	1.8	246
3	Purification of lipase derived from Burkholderia pseudomallei with alcohol/salt-based aqueous two-phase systems. Process Biochemistry, 2009, 44, 1083-1087.	3.7	170
4	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. Bioresource Technology, 2016, 215, 346-356.	9.6	162
5	Cultivation in wastewaters for energy: A microalgae platform. Applied Energy, 2016, 179, 609-625.	10.1	156
6	Torrefaction of microalgal biochar as potential coal fuel and application as bio-adsorbent. Energy Conversion and Management, 2018, 165, 152-162.	9.2	125
7	Colloidal astaxanthin: Preparation, characterisation and bioavailability evaluation. Food Chemistry, 2012, 135, 1303-1309.	8.2	89
8	Analysis of Economic and Environmental Aspects of Microalgae Biorefinery for Biofuels Production: A Review. Biotechnology Journal, 2018, 13, 1700618.	3.5	87
9	Current applications of different type of aqueous two-phase systems. Bioresources and Bioprocessing, 2015, 2, .	4.2	85
10	Extractive fermentation using aqueous two-phase systems for integrated production and purification of extracellular lipase derived from Burkholderia pseudomallei. Process Biochemistry, 2011, 46, 68-73.	3.7	80
11	Recovery of lipase derived from Burkholderia cenocepacia ST8 using sustainable aqueous two-phase flotation composed of recycling hydrophilic organic solvent and inorganic salt. Separation and Purification Technology, 2013, 110, 112-118.	7.9	77
12	Direct recovery of lipase derived from Burkholderia cepacia in recycling aqueous two-phase flotation. Separation and Purification Technology, 2011, 80, 577-584.	7.9	72
13	Isolation of Pediococcus acidilacticiKp10 with ability to secrete bacteriocin-like inhibitory substance from milk products for applications in food industry. BMC Microbiology, 2012, 12, 260.	3.3	71
14	Single-step disruption and protein recovery from Chlorella vulgaris using ultrasonication and ionic liquid buffer aqueous solutions as extractive solvents. Biochemical Engineering Journal, 2017, 124, 26-35.	3.6	61
15	Proteins recovery from wet microalgae using liquid biphasic flotation (LBF). Bioresource Technology, 2017, 244, 1329-1336.	9.6	58
16	Direct purification of Burkholderia Pseudomallei lipase from fermentation broth using aqueous two-phase systems. Biotechnology and Bioprocess Engineering, 2009, 14, 811-818.	2.6	56
17	Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound. Ultrasonics Sonochemistry, 2018, 48, 231-239.	8.2	56
18	Microwave-assisted wet torrefaction of microalgae under various acids for coproduction of biochar and sugar. Journal of Cleaner Production, 2020, 253, 119944.	9.3	54

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19	Effect of Organic-Phase Solvents on Physicochemical Properties and Cellular Uptake of Astaxanthin Nanodispersions. Journal of Agricultural and Food Chemistry, 2011, 59, 8733-8741.	5.2	52
20	Liquid Biphasic System: A Recent Bioseparation Technology. Processes, 2020, 8, 149.	2.8	52
21	Comparative study on the physicochemical properties of Î²-carrageenan extracted from Kappaphycus alvarezii (doty) doty ex Silva in Tawau, Sabah, Malaysia and commercial Î²-carrageenans. Food Hydrocolloids, 2013, 30, 581-588.	10.7	50
22	Aqueous Two-Phase Flotation for the Recovery of Biomolecules. Separation and Purification Reviews, 2016, 45, 81-92.	5.5	48
23	Torrefaction of de-oiled Jatropha seed kernel biomass for solid fuel production. Energy, 2019, 170, 367-374.	8.8	46
24	Recovery of Bacillus cereus cyclodextrin glycosyltransferase and recycling of phase components in an aqueous two-phase system using thermo-separating polymer. Separation and Purification Technology, 2012, 89, 9-15.	7.9	45
25	Using an innovative pH-stat CO2 feeding strategy to enhance cell growth and C-phycocyanin production from Spirulina platensis. Biochemical Engineering Journal, 2016, 112, 78-85.	3.6	45
26	Partition of plasmid DNA in polymerâ€“salt aqueous two-phase systems. Separation and Purification Technology, 2009, 66, 397-404.	7.9	41
27	Integration process of fermentation and liquid biphasic flotation for lipase separation from Burkholderia cepacia. Bioresource Technology, 2018, 250, 306-316.	9.6	41
28	Synthesis of colloidal stable Linde Type J (LTJ) zeolite nanocrystals from rice husk silica and their catalytic performance in Knoevenagel reaction. Materials Chemistry and Physics, 2015, 155, 30-35.	4.0	40
29	Effects of ultrasonic irradiation on crystallization and structural properties of EMT-type zeolite nanocrystals. Materials Chemistry and Physics, 2015, 159, 38-45.	4.0	40
30	Banana inflorescence: Its bio-prospects as an ingredient for functional foods. Trends in Food Science and Technology, 2020, 97, 14-28.	15.1	40
31	Waste to energy: the effects of Pseudomonas sp. on Chlorella sorokiniana biomass and lipid productions in palm oil mill effluent. Clean Technologies and Environmental Policy, 2018, 20, 2037-2045.	4.1	39
32	Novel lipase purification methods â€“ a review of the latest developments. Biotechnology Journal, 2015, 10, 31-44.	3.5	37
33	Primary capture of cyclodextrin glycosyltransferase derived from Bacillus cereus by aqueous two phase system. Separation and Purification Technology, 2011, 81, 318-324.	7.9	36
34	Direct purification of recombinant hepatitis B core antigen from two different pre-conditioned unclarified Escherichia coli feedstocks via expanded bed adsorption chromatography. Journal of Chromatography A, 2007, 1172, 47-56.	3.7	35
35	Enhanced recovery of alkaline protease from fish viscera by phase partitioning and its application. Chemistry Central Journal, 2013, 7, 79.	2.6	34
36	Effects of dry and wet torrefaction pretreatment on microalgae pyrolysis analyzed by TG-FTIR and double-shot Py-GC/MS. Energy, 2020, 210, 118579.	8.8	34

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37	Heat treatment of unclarified Escherichia coli homogenate improved the recovery efficiency of recombinant hepatitis B core antigen. Journal of Virological Methods, 2006, 137, 134-139.	2.1	33
38	Crystal growth study of K-F nanozeolite and its catalytic behavior in Aldol condensation of benzaldehyde and heptanal enhanced by microwave heating. Materials Chemistry and Physics, 2017, 196, 295-301.	4.0	33
39	K-F zeolite nanocrystals synthesized from organic-template-free precursor mixture. Microporous and Mesoporous Materials, 2017, 249, 105-110.	4.4	32
40	Recent advances of aqueous two-phase flotation system for the recovery of biomolecules. Fluid Phase Equilibria, 2019, 501, 112271.	2.5	32
41	Recent progress in catalytic conversion of microalgae oil to green hydrocarbon: A review. Journal of the Taiwan Institute of Chemical Engineers, 2017, 79, 116-124.	5.3	31
42	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. Energy Conversion and Management, 2021, 227, 113609.	9.2	31
43	Hydrothermal synthesis of zeolite a from bamboo leaf biomass and its catalytic activity in cyanoethylation of methanol under autogenic pressure and air conditions. Materials Chemistry and Physics, 2017, 201, 78-85.	4.0	28
44	Isolation of protein from Chlorella sorokiniana CY1 using liquid biphasic flotation assisted with sonication through sugaring-out effect. Journal of Oceanology and Limnology, 2019, 37, 898-908.	1.3	28
45	Characterization of Pullulanase Type II from Bacillus cereus H1.5. American Journal of Biochemistry and Biotechnology, 2009, 5, 170-179.	0.4	28
46	Eco-friendly synthesis for MCM-41 nanoporous materials using the non-reacted reagents in mother liquor. Nanoscale Research Letters, 2013, 8, 120.	5.7	27
47	Strategies for enhancing lipid production from indigenous microalgae isolates. Journal of the Taiwan Institute of Chemical Engineers, 2016, 63, 189-194.	5.3	27
48	Primary recovery of lipase derived from Burkholderia sp. ST8 with aqueous micellar two-phase system. Process Biochemistry, 2011, 46, 1847-1852.	3.7	26
49	Recovery of Human Interferon Alpha-2b from RecombinantEscherichia coliby Aqueous Two-Phase System. Separation Science and Technology, 2012, 47, 1023-1030.	2.5	26
50	Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction. Bioresource Technology, 2020, 302, 122874.	9.6	26
51	Selective partition of plasmid DNA and RNA in aqueous two-phase systems by the addition of neutral salt. Separation and Purification Technology, 2009, 68, 114-118.	7.9	25
52	Effects of pH, Ions, and Thermal Treatments on Physical Stability of Astaxanthin Nanodispersions. International Journal of Food Properties, 2014, 17, 937-947.	3.0	25
53	Optimal conditions for hepatitis B core antigen production in shaked flask fermentation. Biotechnology and Bioprocess Engineering, 2004, 9, 374-378.	2.6	24
54	Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: a review. Nanotechnology, 2016, 27, 332002.	2.6	24

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55	Application of dye-ligands affinity adsorbent in capturing of rabbit immunoglobulin G. Biochemical Engineering Journal, 2009, 45, 232-238.	3.6	23
56	A practical implementation and exploitation of ATPS for intensive processing of biological feedstock: A novel approach for heavily biological feedstock loaded ATPS. Separation and Purification Technology, 2010, 75, 323-331.	7.9	23
57	Extractive bioconversion of poly-Ïµ-caprolactone by Burkholderia cepacia lipase in an aqueous two-phase system. Biochemical Engineering Journal, 2015, 101, 9-17.	3.6	23
58	Lipase-mediated degradation of poly-Îµ-caprolactone in toluene: Behavior and its action mechanism. Polymer Degradation and Stability, 2016, 133, 182-191.	5.8	23
59	Compositional and thermal characteristics of palm olein-based diacylglycerol in blends with palm super olein. Food Research International, 2014, 55, 62-69.	6.2	22
60	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. Microporous and Mesoporous Materials, 2019, 277, 78-83.	4.4	22
61	Purification of histidine-tagged nucleocapsid protein of Nipah virus using immobilized metal affinity chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 1561-1567.	2.3	20
62	Partitioning of haemoglobin and bovine serum albumin from whole bovine blood using aqueous two-phase systems. Separation and Purification Technology, 2012, 90, 182-188.	7.9	18
63	Rice bran lipase catalyzed esterification of palm oil fatty acid distillate and glycerol in organic solvent. Biotechnology and Bioprocess Engineering, 2007, 12, 250-256.	2.6	17
64	Production of adenoviral vectors and its recovery. Process Biochemistry, 2007, 42, 1107-1113.	3.7	16
65	Enhanced production of periplasmic interferon alpha-2b by Escherichia coli using ion-exchange resin for in situ removal of acetate in the culture. Biochemical Engineering Journal, 2011, 58-59, 124-132.	3.6	16
66	Separation of single-walled carbon nanotubes using aqueous two-phase system. Separation and Purification Technology, 2014, 125, 136-141.	7.9	16
67	Integration of mechanical cell disruption and fluidised bed recovery of G3PDH from unclarified disrupted yeast: A comparative study of the performance of unshielded and polymer shielded dye-ligand chromatography systems. Journal of Biotechnology, 2005, 119, 436-448.	3.8	15
68	Purification of recombinant nucleocapsid protein of Newcastle disease virus from unclarified feedstock using expanded bed adsorption chromatography. Protein Expression and Purification, 2006, 46, 114-121.	1.3	15
69	Recovery of histidine-tagged nucleocapsid protein of Newcastle disease virus using immobilised metal affinity chromatography. Process Biochemistry, 2006, 41, 874-881.	3.7	15
70	Rapid synthesis of nanocrystalline zeolite W with hierarchical mesoporosity as an efficient solid basic catalyst for nitroaldol Henry reaction of vanillin with nitroethane. Materials Express, 2018, 8, 463-468.	0.5	15
71	Optimisation of freeze drying conditions for purified serine protease from mango (Mangifera indica) Tj ETQq1 1 0.784314 rgBT /Overlo	8.2	14
72	Ionothermal synthesis of FeAPO-5 in the presence of phosphorous acid. CrystEngComm, 2016, 18, 257-265.	2.6	13

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73	Examination of indigenous microalgal species for maximal protein synthesis. Biochemical Engineering Journal, 2020, 154, 107425.	3.6	13
74	Process intensification of fluidized bed dye-ligand adsorption of G3PDH from unclarified disrupted yeast: A case study of the performance of a high-density steelâ€“agarose pellicular adsorbent. Protein Expression and Purification, 2005, 42, 160-165.	1.3	12
75	The direct recovery of recombinant hepatitis B core antigen from disruptate derived from continuous-flow bead milling. Biotechnology and Applied Biochemistry, 2008, 50, 49.	3.1	12
76	Enzymatic hydrolysis of bovine hide and recovery of collagen hydrolysate in aqueous two-phase systems. Separation and Purification Technology, 2012, 89, 282-287.	7.9	12
77	Sustainable approach in phlorotannin recovery from macroalgae. Journal of Bioscience and Bioengineering, 2018, 126, 220-225.	2.2	12
78	Direct recovery of recombinant nucleocapsid protein of Nipah virus from unclarified Escherichia coli homogenate using hydrophobic interaction expanded bed adsorption chromatography. Journal of Chromatography A, 2010, 1217, 1293-1297.	3.7	10
79	Emulsion formulation optimization and characterization of spray-dried Î¹-carrageenan microparticles for the encapsulation of CoQ10. Food Science and Biotechnology, 2016, 25, 53-62.	2.6	10
80	Micro- and macroscopic observations of the nucleation process and crystal growth of nanosized Cs-pollucite in an organotemplate-free hydrosol. New Journal of Chemistry, 2019, 43, 17433-17440.	2.8	9
81	The influence of bakersâ€™ yeast cells on protein adsorption performance in dye-ligand expanded bed chromatography. Biotechnology and Bioprocess Engineering, 2005, 10, 552-555.	2.6	8
82	The release of hepatitis B core antigen from Escherichia coli by batch mode bead milling. Process Biochemistry, 2008, 43, 206-212.	3.7	8
83	A preparative hydrophobic interaction chromatography for purification of recombinant nucleocapsid protein of Nipah virus from clarified Escherichia coli homogenate. Separation and Purification Technology, 2010, 71, 97-101.	7.9	8
84	Recovery of Microquantities of Human Epidermal Growth Factor fromEscherichia coliHomogenate andPichia pastorisCulture Medium using Expanded Bed Adsorption. Separation Science and Technology, 2014, 49, 702-708.	2.5	8
85	Effect of Extra-Framework Cations of LTL Nanozeolites to Inhibit Oil Oxidation. Nanoscale Research Letters, 2015, 10, 956.	5.7	8
86	Enhancement of Extracellular Pullulanase Production by Raoultella planticola DSMZ 4617 Using Optimized Medium Based on Sago Starch. Open Biotechnology Journal, 2009, 3, 1-8.	1.2	8
87	Enhanced Interferon-Î±2b Production in Periplasmic Space of Escherichia coli through Medium Optimization using Response Surface Method. Open Biotechnology Journal, 2009, 3, 117-124.	1.2	8
88	Effects of Synthesis Parameters on Crystallization Behavior of K-MER Zeolite and Its Morphological Properties on Catalytic Cyanoethylation Reaction. Crystals, 2020, 10, 64.	2.2	8
89	A fermentation strategy for anti-MUC1 C595 diabody expression in recombinantEscherichia coli. Biotechnology and Bioprocess Engineering, 2006, 11, 425-431.	2.6	7
90	Efficient enzyme-catalysed transesterification of microalgal biomass from Chlamydomonas sp.. Energy, 2016, 116, 1370-1373.	8.8	7

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91	Comparison of two matrices for selective recovery of C595 diabody fragment (dbFv) from Escherichia coli lysates. Process Biochemistry, 2007, 42, 335-343.	3.7	6
92	Physical characterisations of a single-stage KÃ¼hni-type aqueous two-phase extraction column. Biochemical Engineering Journal, 2010, 50, 90-98.	3.6	6
93	Direct enzyme adsorption from an unclarified microbial feedstock using suspended bed chromatography. Journal of Chromatography A, 2003, 989, 109-118.	3.7	5
94	Organotemplate-free hydrothermal synthesis of NaNKX-2 aluminophosphite basic catalyst. Materials Letters, 2016, 182, 344-346.	2.6	5
95	Nanosized Cs-pollucite zeolite synthesized under mild condition and its catalytic behavior. Materials Research Express, 2019, 6, 025026.	1.6	5
96	Crystal growth study of nanosized K-MER zeolite from bamboo leaves ash and its catalytic behaviour in Knoevenagel condensation of benzaldehyde with ethyl cyanoacetate. Materials Chemistry and Physics, 2020, 251, 123100.	4.0	5
97	Dyeâ€“ligand expanded bed adsorption of G6PDH from highly dense unclarified yeast extract. Process Biochemistry, 2007, 42, 444-448.	3.7	4
98	The role of lac operon and lac repressor in the induction using lactose for the expression of periplasmic human interferon-Î±2b by Escherichia coli. Annals of Microbiology, 2012, 62, 1427-1435.	2.6	4
99	Offretite zeolite templated by amphiphile and its catalytic performance in microwave-assisted Knoevenagel condensation of benzaldehyde and ethyl cyanoacetate. Materials Chemistry and Physics, 2021, 272, 125001.	4.0	4
100	Production of hepatitis B core antigen in a stirred tank bioreactor: The influence of temperature and agitation. Biotechnology and Bioprocess Engineering, 2006, 11, 164-167.	2.6	3
101	Singleâ€step purification of the recombinant green fluorescent protein from intact Escherichia coli cells using preparative PAGE. Electrophoresis, 2009, 30, 3017-3023.	2.4	3
102	Effects of various alkali metal cations on the synthesis, crystallization and catalytic properties of NKX-2 aluminophosphites. Materials Chemistry and Physics, 2019, 222, 81-86.	4.0	3
103	Fast, low-pressure, low-temperature microwave synthesis of ABW cesium aluminosilicate zeolite nanocatalyst in organotemplate-free hydrogel system. Materials Research Bulletin, 2020, 122, 110691.	5.2	3
104	An Intensified Esterification Process of Palm Oil Fatty Acid Distillate Catalyzed by Delipidated Rice Bran Lipase. Scientific World Journal, The, 2006, 6, 1124-1131.	2.1	2
105	Effect of polymer shielding on elution of G3PDH bound to dye-ligand adsorbent. Biotechnology and Bioprocess Engineering, 2006, 11, 84-87.	2.6	2
106	The performance of anion exchange expanded bed adsorption chromatography on the recovery of G6PDH from unclarified feedstock with high biomass concentration. Biotechnology and Bioprocess Engineering, 2006, 11, 466-469.	2.6	2
107	Production of an anti-MUC1 C595 dbFv antibody fragment in recombinant Escherichia coli. Process Biochemistry, 2007, 42, 77-82.	3.7	2
108	Alkali Metal Ion-Exchanged Zeolite X from Bamboo Leaf Biomass as Base Catalysts in Cyanoethylation of Methanol Enhanced by Non-Microwave Instant Heating. Australian Journal of Chemistry, 2017, 70, 1239.	0.9	2

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109	Phycocyanin: A Natural Antioxidant to Combat Free Radicals. Current Nutrition and Food Science, 2022, 18, 338-344.	0.6	2
110	Assessment of molecular recognition element for the quantification of human epidermal growth factor using surface plasmon resonance. Electronic Journal of Biotechnology, 2013, 16, .	2.2	1
111	Organotemplate-free Cs-ABW nanozeolite as highly reactive and recyclablecatalyst for Henry reaction between benzaldehyde and nitroethane. Turkish Journal of Chemistry, 2019, 43, 568-581.	1.2	1
112	Effects of Synthesis Parameters on the Crystallization Profile and Morphological Properties of SAPO-5 Templated by 1-Benzyl-2,3-Dimethylimidazolium Hydroxide. Crystals, 2021, 11, 279.	2.2	1
113	Production of Adenoviral Vectors in 293 Cells: A Case Study of the Adaptation of Attached Cells to Grow in Suspension. Open Biotechnology Journal, 2008, 2, 29-35.	1.2	1
114	Extractive bioconversion of gamma-cyclodextrin and recycling of cyclodextrin glycosyltransferase in aqueous two-phase system. New Biotechnology, 2016, 33, S112.	4.4	0