

Tau Chuan Ling

List of Publications by Year in descending order

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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	Phycocyanin: A Natural Antioxidant to Combat Free Radicals. <i>Current Nutrition and Food Science</i> , 2022, 18, 338-344.	0.6	2
2	Effect of wet torrefaction on pyrolysis kinetics and conversion of microalgae carbohydrates, proteins, and lipids. <i>Energy Conversion and Management</i> , 2021, 227, 113609.	9.2	31
3	Effects of Synthesis Parameters on the Crystallization Profile and Morphological Properties of SAPO-5 Templated by 1-Benzyl-2,3-Dimethylimidazolium Hydroxide. <i>Crystals</i> , 2021, 11, 279.	2.2	1
4	Offretite zeolite templated by amphiphile and its catalytic performance in microwave-assisted Knoevenagel condensation of benzaldehyde and ethyl cyanoacetate. <i>Materials Chemistry and Physics</i> , 2021, 272, 125001.	4.0	4
5	Examination of indigenous microalgal species for maximal protein synthesis. <i>Biochemical Engineering Journal</i> , 2020, 154, 107425.	3.6	13
6	Banana inflorescence: Its bio-prospects as an ingredient for functional foods. <i>Trends in Food Science and Technology</i> , 2020, 97, 14-28.	15.1	40
7	Fast, low-pressure, low-temperature microwave synthesis of ABW cesium aluminosilicate zeolite nanocatalyst in organotemplate-free hydrogel system. <i>Materials Research Bulletin</i> , 2020, 122, 110691.	5.2	3
8	Microwave-assisted wet torrefaction of microalgae under various acids for coproduction of biochar and sugar. <i>Journal of Cleaner Production</i> , 2020, 253, 119944.	9.3	54
9	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.	8.8	34
10	Crystal growth study of nanosized K-MER zeolite from bamboo leaves ash and its catalytic behaviour in Knoevenagel condensation of benzaldehyde with ethyl cyanoacetate. <i>Materials Chemistry and Physics</i> , 2020, 251, 123100.	4.0	5
11	Liquid Biphasic System: A Recent Bioseparation Technology. <i>Processes</i> , 2020, 8, 149.	2.8	52
12	Current application of electrical pre-treatment for enhanced microalgal biomolecules extraction. <i>Bioresource Technology</i> , 2020, 302, 122874.	9.6	26
13	Effects of Synthesis Parameters on Crystallization Behavior of K-MER Zeolite and Its Morphological Properties on Catalytic Cyanoethylation Reaction. <i>Crystals</i> , 2020, 10, 64.	2.2	8
14	Recent advances of aqueous two-phase flotation system for the recovery of biomolecules. <i>Fluid Phase Equilibria</i> , 2019, 501, 112271.	2.5	32
15	Organotemplate-free Cs-ABW nanozeolite as highly reactive and recyclable catalyst for Henry reaction between benzaldehyde and nitroethane. <i>Turkish Journal of Chemistry</i> , 2019, 43, 568-581.	1.2	1
16	Isolation of protein from <i>Chlorella sorokiniana</i> CY1 using liquid biphasic flotation assisted with sonication through sugaring-out effect. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 898-908.	1.3	28
17	Micro- and macroscopic observations of the nucleation process and crystal growth of nanosized Cs-pollucite in an organotemplate-free hydrosol. <i>New Journal of Chemistry</i> , 2019, 43, 17433-17440.	2.8	9
18	Torrefaction of de-oiled <i>Jatropha</i> seed kernel biomass for solid fuel production. <i>Energy</i> , 2019, 170, 367-374.	8.8	46

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19	Nanosized Cs-pollucite zeolite synthesized under mild condition and its catalytic behavior. <i>Materials Research Express</i> , 2019, 6, 025026.	1.6	5
20	Synthesis of Cs-ABW nanozeolite in organotemplate-free system. <i>Microporous and Mesoporous Materials</i> , 2019, 277, 78-83.	4.4	22
21	Effects of various alkali metal cations on the synthesis, crystallization and catalytic properties of NKX-2 aluminophosphites. <i>Materials Chemistry and Physics</i> , 2019, 222, 81-86.	4.0	3
22	Waste to energy: the effects of <i>Pseudomonas</i> sp. on <i>Chlorella sorokiniana</i> biomass and lipid productions in palm oil mill effluent. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 2037-2045.	4.1	39
23	Sustainable approach in phlorotannin recovery from macroalgae. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 220-225.	2.2	12
24	Analysis of Economic and Environmental Aspects of Microalgae Biorefinery for Biofuels Production: A Review. <i>Biotechnology Journal</i> , 2018, 13, 1700618.	3.5	87
25	Torrefaction of microalgal biochar as potential coal fuel and application as bio-adsorbent. <i>Energy Conversion and Management</i> , 2018, 165, 152-162.	9.2	125
26	Integration process of fermentation and liquid biphasic flotation for lipase separation from <i>Burkholderia cepacia</i> . <i>Bioresource Technology</i> , 2018, 250, 306-316.	9.6	41
27	Rapid synthesis of nanocrystalline zeolite W with hierarchical mesoporosity as an efficient solid basic catalyst for nitroaldol Henry reaction of vanillin with nitroethane. <i>Materials Express</i> , 2018, 8, 463-468.	0.5	15
28	Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 231-239.	8.2	56
29	K-F zeolite nanocrystals synthesized from organic-template-free precursor mixture. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 105-110.	4.4	32
30	Crystal growth study of K-F nanozeolite and its catalytic behavior in Aldol condensation of benzaldehyde and heptanal enhanced by microwave heating. <i>Materials Chemistry and Physics</i> , 2017, 196, 295-301.	4.0	33
31	Single-step disruption and protein recovery from <i>Chlorella vulgaris</i> using ultrasonication and ionic liquid buffer aqueous solutions as extractive solvents. <i>Biochemical Engineering Journal</i> , 2017, 124, 26-35.	3.6	61
32	Proteins recovery from wet microalgae using liquid biphasic flotation (LBF). <i>Bioresource Technology</i> , 2017, 244, 1329-1336.	9.6	58
33	Hydrothermal synthesis of zeolite a from bamboo leaf biomass and its catalytic activity in cyanoethylation of methanol under autogenic pressure and air conditions. <i>Materials Chemistry and Physics</i> , 2017, 201, 78-85.	4.0	28
34	Recent progress in catalytic conversion of microalgae oil to green hydrocarbon: A review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 79, 116-124.	5.3	31
35	Alkali Metal Ion-Exchanged Zeolite X from Bamboo Leaf Biomass as Base Catalysts in Cyanoethylation of Methanol Enhanced by Non-Microwave Instant Heating. <i>Australian Journal of Chemistry</i> , 2017, 70, 1239.	0.9	2
36	Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production. <i>Bioresource Technology</i> , 2016, 215, 346-356.	9.6	162

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37	Using an innovative pH-stat CO ₂ feeding strategy to enhance cell growth and C-phycoerythrin production from <i>Spirulina platensis</i> . <i>Biochemical Engineering Journal</i> , 2016, 112, 78-85.	3.6	45
38	Emulsion formulation optimization and characterization of spray-dried β -carrageenan microparticles for the encapsulation of CoQ10. <i>Food Science and Biotechnology</i> , 2016, 25, 53-62.	2.6	10
39	Extractive bioconversion of gamma-cyclodextrin and recycling of cyclodextrin glycosyltransferase in aqueous two-phase system. <i>New Biotechnology</i> , 2016, 33, S112.	4.4	0
40	Organotemplate-free hydrothermal synthesis of NaKX-2 aluminophosphate basic catalyst. <i>Materials Letters</i> , 2016, 182, 344-346.	2.6	5
41	Efficient enzyme-catalysed transesterification of microalgal biomass from <i>Chlamydomonas</i> sp.. <i>Energy</i> , 2016, 116, 1370-1373.	8.8	7
42	Lipase-mediated degradation of poly- ϵ -caprolactone in toluene: Behavior and its action mechanism. <i>Polymer Degradation and Stability</i> , 2016, 133, 182-191.	5.8	23
43	Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: a review. <i>Nanotechnology</i> , 2016, 27, 332002.	2.6	24
44	Cultivation in wastewaters for energy: A microalgae platform. <i>Applied Energy</i> , 2016, 179, 609-625.	10.1	156
45	Aqueous Two-Phase Flotation for the Recovery of Biomolecules. <i>Separation and Purification Reviews</i> , 2016, 45, 81-92.	5.5	48
46	Ionothermal synthesis of FeAPO-5 in the presence of phosphorous acid. <i>CrystEngComm</i> , 2016, 18, 257-265.	2.6	13
47	Strategies for enhancing lipid production from indigenous microalgae isolates. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 189-194.	5.3	27
48	Extractive bioconversion of poly- ϵ -caprolactone by <i>Burkholderia cepacia</i> lipase in an aqueous two-phase system. <i>Biochemical Engineering Journal</i> , 2015, 101, 9-17.	3.6	23
49	Current applications of different type of aqueous two-phase systems. <i>Bioresources and Bioprocessing</i> , 2015, 2, .	4.2	85
50	Synthesis of colloidal stable Linde Type J (LTJ) zeolite nanocrystals from rice husk silica and their catalytic performance in Knoevenagel reaction. <i>Materials Chemistry and Physics</i> , 2015, 155, 30-35.	4.0	40
51	Effects of ultrasonic irradiation on crystallization and structural properties of EMT-type zeolite nanocrystals. <i>Materials Chemistry and Physics</i> , 2015, 159, 38-45.	4.0	40
52	Effect of Extra-Framework Cations of LTL Nanozeolites to Inhibit Oil Oxidation. <i>Nanoscale Research Letters</i> , 2015, 10, 956.	5.7	8
53	Novel lipase purification methods – a review of the latest developments. <i>Biotechnology Journal</i> , 2015, 10, 31-44.	3.5	37
54	Biosequestration of atmospheric CO ₂ and flue gas-containing CO ₂ by microalgae. <i>Bioresource Technology</i> , 2015, 184, 190-201.	9.6	417

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55	Separation of single-walled carbon nanotubes using aqueous two-phase system. Separation and Purification Technology, 2014, 125, 136-141.	7.9	16
56	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
57	Recovery of Microquantities of Human Epidermal Growth Factor from <i>Escherichia coli</i> Homogenate and <i>Pichia pastoris</i> Culture Medium using Expanded Bed Adsorption. Separation Science and Technology, 2014, 49, 702-708.	2.5	8
58	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
59	Enhanced recovery of alkaline protease from fish viscera by phase partitioning and its application. Chemistry Central Journal, 2013, 7, 79.	2.6	34
60	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
61	Comparative study on the physicochemical properties of $\hat{\text{I}}^{\text{e}}$ -carrageenan extracted from <i>Kappaphycus alvarezii</i> (doty) doty ex Silva in Tawau, Sabah, Malaysia and commercial $\hat{\text{I}}^{\text{e}}$ -carrageenans. Food Hydrocolloids, 2013, 30, 581-588.	10.7	50
62	Recovery of lipase derived from <i>Burkholderia cenocepacia</i> 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
63	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
64	Pullulanase: Role in Starch Hydrolysis and Potential Industrial Applications. Enzyme Research, 2012, 2012, 1-14.	1.8	246
65	The role of lac operon and lac repressor in the induction using lactose for the expression of periplasmic human interferon- $\hat{\text{I}}^{\text{e}}2\text{b}$ by <i>Escherichia coli</i> . Annals of Microbiology, 2012, 62, 1427-1435.	2.6	4
66	Colloidal astaxanthin: Preparation, characterisation and bioavailability evaluation. Food Chemistry, 2012, 135, 1303-1309.	8.2	89
67	Recovery of Human Interferon Alpha-2b from Recombinant <i>Escherichia coli</i> by Aqueous Two-Phase System. Separation Science and Technology, 2012, 47, 1023-1030.	2.5	26
68	Isolation of <i>Pediococcus acidilactici</i> Kp10 with ability to secrete bacteriocin-like inhibitory substance from milk products for applications in food industry. BMC Microbiology, 2012, 12, 260.	3.3	71
69	Recovery of <i>Bacillus cereus</i> 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
70	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
71	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
72	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

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73	Primary capture of cyclodextrin glycosyltransferase derived from <i>Bacillus cereus</i> by aqueous two phase system. <i>Separation and Purification Technology</i> , 2011, 81, 318-324.	7.9	36
74	Primary recovery of lipase derived from <i>Burkholderia</i> sp. ST8 with aqueous micellar two-phase system. <i>Process Biochemistry</i> , 2011, 46, 1847-1852.	3.7	26
75	Enhanced production of periplasmic interferon alpha-2b by <i>Escherichia coli</i> using ion-exchange resin for in situ removal of acetate in the culture. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 124-132.	3.6	16
76	Optimisation of freeze drying conditions for purified serine protease from mango (<i>Mangifera indica</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.2	14
77	Extractive fermentation using aqueous two-phase systems for integrated production and purification of extracellular lipase derived from <i>Burkholderia pseudomallei</i> . <i>Process Biochemistry</i> , 2011, 46, 68-73.	3.7	80
78	Direct recovery of lipase derived from <i>Burkholderia cepacia</i> in recycling aqueous two-phase flotation. <i>Separation and Purification Technology</i> , 2011, 80, 577-584.	7.9	72
79	A preparative hydrophobic interaction chromatography for purification of recombinant nucleocapsid protein of Nipah virus from clarified <i>Escherichia coli</i> homogenate. <i>Separation and Purification Technology</i> , 2010, 71, 97-101.	7.9	8
80	A practical implementation and exploitation of ATPS for intensive processing of biological feedstock: A novel approach for heavily biological feedstock loaded ATPS. <i>Separation and Purification Technology</i> , 2010, 75, 323-331.	7.9	23
81	Physical characterisations of a single-stage K ⁺ /hni-type aqueous two-phase extraction column. <i>Biochemical Engineering Journal</i> , 2010, 50, 90-98.	3.6	6
82	Direct recovery of recombinant nucleocapsid protein of Nipah virus from unclarified <i>Escherichia coli</i> homogenate using hydrophobic interaction expanded bed adsorption chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 1293-1297.	3.7	10
83	Single-step purification of the recombinant green fluorescent protein from intact <i>Escherichia coli</i> cells using preparative PAGE. <i>Electrophoresis</i> , 2009, 30, 3017-3023.	2.4	3
84	Selective partition of plasmid DNA and RNA in aqueous two-phase systems by the addition of neutral salt. <i>Separation and Purification Technology</i> , 2009, 68, 114-118.	7.9	25
85	Application of dye-ligands affinity adsorbent in capturing of rabbit immunoglobulin G. <i>Biochemical Engineering Journal</i> , 2009, 45, 232-238.	3.6	23
86	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
87	Purification of histidine-tagged nucleocapsid protein of Nipah virus using immobilized metal affinity chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1561-1567.	2.3	20
88	Purification of lipase derived from <i>Burkholderia pseudomallei</i> with alcohol/salt-based aqueous two-phase systems. <i>Process Biochemistry</i> , 2009, 44, 1083-1087.	3.7	170
89	Partition of plasmid DNA in polymer-salt aqueous two-phase systems. <i>Separation and Purification Technology</i> , 2009, 66, 397-404.	7.9	41
90	Enhancement of Extracellular Pullulanase Production by <i>Raoultella planticola</i> DSMZ 4617 Using Optimized Medium Based on Sago Starch. <i>Open Biotechnology Journal</i> , 2009, 3, 1-8.	1.2	8

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91	Enhanced Interferon- β Production in Periplasmic Space of Escherichia coli through Medium Optimization using Response Surface Method. Open Biotechnology Journal, 2009, 3, 117-124.	1.2	8
92	Characterization of Pullulanase Type II from Bacillus cereus H1.5. American Journal of Biochemistry and Biotechnology, 2009, 5, 170-179.	0.4	28
93	The release of hepatitis B core antigen from Escherichia coli by batch mode bead milling. Process Biochemistry, 2008, 43, 206-212.	3.7	8
94	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
95	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
96	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
97	Dye-ligand expanded bed adsorption of G6PDH from highly dense unclarified yeast extract. Process Biochemistry, 2007, 42, 444-448.	3.7	4
98	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
99	Production of adenoviral vectors and its recovery. Process Biochemistry, 2007, 42, 1107-1113.	3.7	16
100	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
101	Production of an anti-MUC1 C595 dbFv antibody fragment in recombinant Escherichia coli. Process Biochemistry, 2007, 42, 77-82.	3.7	2
102	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
103	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
104	Recovery of histidine-tagged nucleocapsid protein of Newcastle disease virus using immobilised metal affinity chromatography. Process Biochemistry, 2006, 41, 874-881.	3.7	15
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	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
107	A fermentation strategy for anti-MUC1 C595 diabody expression in recombinant Escherichia coli. Biotechnology and Bioprocess Engineering, 2006, 11, 425-431.	2.6	7
108	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

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109	Heat treatment of unclarified Escherichia coli homogenate improved the recovery efficiency of recombinant hepatitis B core antigen. <i>Journal of Virological Methods</i> , 2006, 137, 134-139.	2.1	33
110	The influence of bakers' yeast cells on protein adsorption performance in dye-ligand expanded bed chromatography. <i>Biotechnology and Bioprocess Engineering</i> , 2005, 10, 552-555.	2.6	8
111	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. <i>Journal of Biotechnology</i> , 2005, 119, 436-448.	3.8	15
112	Process intensification of fluidized bed dye-ligand adsorption of G3PDH from unclarified disrupted yeast: A case study of the performance of a high-density steel-agarose pellicular adsorbent. <i>Protein Expression and Purification</i> , 2005, 42, 160-165.	1.3	12
113	Optimal conditions for hepatitis B core antigen production in shaken flask fermentation. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 374-378.	2.6	24
114	Direct enzyme adsorption from an unclarified microbial feedstock using suspended bed chromatography. <i>Journal of Chromatography A</i> , 2003, 989, 109-118.	3.7	5