

Yung-Chuan Liu

List of Publications by Year in descending order

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101
papers

2,805
citations

201674

27
h-index

189892

50
g-index

101
all docs

101
docs citations

101
times ranked

3678
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparisons on the antioxidant properties of fresh, freeze-dried and hot-air-dried tomatoes. <i>Journal of Food Engineering</i> , 2006, 77, 478-485.	5.2	363
2	Effects of using light-emitting diodes on the cultivation of <i>Spirulina platensis</i> . <i>Biochemical Engineering Journal</i> , 2007, 37, 21-25.	3.6	271
3	Optimum conditions for lipase immobilization on chitosan-coated Fe ₃ O ₄ nanoparticles. <i>Carbohydrate Polymers</i> , 2012, 87, 2538-2545.	10.2	187
4	Modeling on chlorophyll a and phycocyanin production by <i>Spirulina platensis</i> under various light-emitting diodes. <i>Biochemical Engineering Journal</i> , 2010, 53, 52-56.	3.6	139
5	Exploiting immobilized metal affinity membranes for the isolation or purification of therapeutically relevant species. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 797, 305-319.	2.3	75
6	Characteristics of the photosynthesis microbial fuel cell with a <i>Spirulina platensis</i> biofilm. <i>Bioresource Technology</i> , 2013, 135, 640-643.	9.6	73
7	Fungichromin: A Substance from <i>Streptomyces padanus</i> with Inhibitory Effects on <i>Rhizoctonia solani</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2003, 51, 95-99.	5.2	61
8	A novel enzyme-assisted ultrasonic approach for highly efficient extraction of resveratrol from <i>Polygonum cuspidatum</i> . <i>Ultrasonics Sonochemistry</i> , 2016, 32, 258-264.	8.2	61
9	RSM and ANN modeling-based optimization approach for the development of ultrasound-assisted liposome encapsulation of piceid. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 112-122.	8.2	60
10	Comparison of Different Protein Immobilization Methods on Quartz Crystal Microbalance Surface in Flow Injection Immunoassay. <i>Analytical Biochemistry</i> , 2001, 299, 130-135.	2.4	54
11	Differential gene expression of livers from ApoE deficient mice. <i>Life Sciences</i> , 2000, 68, 19-28.	4.3	49
12	Effect of membranes with various hydrophobic/hydrophilic properties on lipase immobilized activity and stability. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 166-172.	2.2	49
13	Kinetic aspects of ultrasound-accelerated lipase catalyzed acetylation and optimal synthesis of 4- <i>acetoxyresveratrol</i> . <i>Ultrasonics Sonochemistry</i> , 2013, 20, 546-552.	8.2	49
14	Continuous Production of Lipase-Catalyzed Biodiesel in a Packed-Bed Reactor: Optimization and Enzyme Reuse Study. <i>Journal of Biomedicine and Biotechnology</i> , 2011, 2011, 1-6.	3.0	47
15	High Yield of Wax Ester Synthesized from Cetyl Alcohol and Octanoic Acid by Lipozyme RMIM and Novozym 435. <i>International Journal of Molecular Sciences</i> , 2012, 13, 11694-11704.	4.1	46
16	Lipase-immobilized biocatalytic membranes for biodiesel production. <i>Bioresource Technology</i> , 2013, 145, 229-232.	9.6	46
17	Ultrasonic-Assisted Extraction of the Botanical Dietary Supplement Resveratrol and Other Constituents of <i>Polygonum cuspidatum</i> . <i>Journal of Natural Products</i> , 2012, 75, 1810-1813.	3.0	43
18	Kinetics and optimization of lipase-catalyzed synthesis of rose fragrance 2-phenylethyl acetate through transesterification. <i>Process Biochemistry</i> , 2014, 49, 437-444.	3.7	43

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19	Optimized Ultrasound-Assisted Extraction of Phenolic Compounds from <i>Polygonum cuspidatum</i> . <i>Molecules</i> , 2014, 19, 67-77.	3.8	43
20	<i>Polygonum cuspidatum</i> extracts as bioactive antioxidant, anti-tyrosinase, immune stimulation and anticancer agents. <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 464-469.	2.2	43
21	Optimal covalent immobilization of β -chymotrypsin on Fe ₃ O ₄ -chitosan nanoparticles. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2012, 78, 9-15.	1.8	37
22	Clarification of the Antagonistic Effect of the Lipopeptides Produced by <i>Bacillus amyloliquefaciens</i> BPD1 against <i>Pyricularia oryzae</i> via In Situ MALDI-TOF IMS Analysis. <i>Molecules</i> , 2016, 21, 1670.	3.8	35
23	Effects of shear stress and mass transfer on chitinase production by <i>Paenibacillus</i> sp. CHE-N1. <i>Biochemical Engineering Journal</i> , 2007, 34, 172-178.	3.6	34
24	Optimum Lipase Immobilized on Diamine-Grafted PVDF Membrane and Its Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 5141-5147.	3.7	33
25	Enzymatic synthesis of rose aromatic ester (α -phenylethyl acetate) by lipase. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 2141-2147.	3.5	31
26	Enhancement of polysaccharide production by optimization of culture conditions in shake flask submerged cultivation of <i>Grifola umbellata</i> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2008, 39, 307-311.	1.4	30
27	Production of Resveratrol by Piceid Deglycosylation Using Cellulase. <i>Catalysts</i> , 2016, 6, 32.	3.5	27
28	Evaluation and application of conducting polymer entrapment on quartz crystal microbalance in flow injection immunoassay. <i>Biosensors and Bioelectronics</i> , 2003, 18, 937-942.	10.1	26
29	Purification of penicillin G acylase using immobilized metal affinity membranes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 794, 67-76.	2.3	26
30	Optimized enzymatic synthesis of caffeic acid phenethyl ester by RSM. <i>New Biotechnology</i> , 2010, 27, 89-93.	4.4	26
31	Identification and enhanced production of prodigiosin isoform pigment from <i>Serratia marcescens</i> N10612. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1133-1139.	5.3	26
32	Effects of spacer arm on penicillin G acylase purification using immobilized metal affinity membranes. <i>Journal of Membrane Science</i> , 2005, 251, 201-207.	8.2	24
33	<i>Paenibacillus taichungensis</i> sp. nov., from soil in Taiwan. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008, 58, 2640-2645.	1.7	23
34	Preparation of fermentation-processed chitin and its application in chitinase affinity adsorption. <i>Process Biochemistry</i> , 2009, 44, 343-348.	3.7	23
35	Construction of a Low-Pressure Microwave Plasma Reactor and Its Application in the Treatment of Volatile Organic Compounds. <i>Environmental Science & Technology</i> , 2004, 38, 3785-3791.	10.0	22
36	Experimental analysis of the oil addition effect on mycelia and polysaccharide productions in <i>Ganoderma lucidum</i> submerged culture. <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 217-224.	3.4	21

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37	Preparation of the immobilized metal affinity membrane with high amount of metal ions and protein adsorption efficiencies. <i>Process Biochemistry</i> , 2010, 45, 500-506.	3.7	21
38	Inhibition of cucumber <i>Pythium damping-off</i> pathogen with zoosporicidal biosurfactants produced by <i>Bacillus mycoides</i> . <i>Journal of Plant Diseases and Protection</i> , 2017, 124, 481-491.	2.9	21
39	Optimization of cultivation conditions for fungichromin production from <i>Streptomyces padanus</i> PMS-702. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2008, 39, 67-73.	1.4	20
40	Optimized synthesis of lipase-catalyzed octyl caffeate by Novozym [®] 435. <i>Industrial Crops and Products</i> , 2010, 32, 522-526.	5.2	19
41	Analysis of exopolysaccharide production patterns of <i>Cordyceps militaris</i> under various light-emitting diodes. <i>Biochemical Engineering Journal</i> , 2016, 112, 226-232.	3.6	19
42	Kinetic analysis on precursors for iturin A production from <i>Bacillus amyloliquefaciens</i> BPD1. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 630-635.	2.2	19
43	Enhanced exopolysaccharide production by <i>Cordyceps militaris</i> using repeated batch cultivation. <i>Journal of Bioscience and Bioengineering</i> , 2019, 127, 499-505.	2.2	19
44	Development of continuous chitinase production process in a membrane bioreactor by <i>Paenibacillus</i> sp. CHE-N1. <i>Process Biochemistry</i> , 2007, 42, 606-611.	3.7	18
45	The use of additives as the stimulator on mycelial biomass and exopolysaccharide productions in submerged culture of <i>Grifola umbellata</i> . <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 401-406.	3.4	18
46	Optimization of Enzymatic Synthesis of Cetyl 2-ethylhexanoate by Novozym [®] 435. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2011, 88, 1917-1923.	1.9	18
47	A continuous ultrasound-assisted packed-bed bioreactor for the lipase-catalyzed synthesis of caffeic acid phenethyl ester. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 1289-1294.	3.2	18
48	Direct penicillin G acylase immobilization by using the self-prepared immobilized metal affinity membrane. <i>Journal of Membrane Science</i> , 2011, 380, 34-40.	8.2	17
49	Development of a pan-serotype reverse transcription loop-mediated isothermal amplification assay for the detection of dengue virus. <i>Diagnostic Microbiology and Infectious Disease</i> , 2015, 83, 30-36.	1.8	17
50	Cloning of phaCAB genes from thermophilic <i>Caldimonas manganoxidans</i> in <i>Escherichia coli</i> for poly(3-hydroxybutyrate) (PHB) production. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6419-6430.	3.6	15
51	Simultaneous purification and immobilization of d-hydantoinase on the immobilized metal affinity membrane via coordination bonds. <i>Biochemical Engineering Journal</i> , 2012, 61, 20-27.	3.6	14
52	Quantitative and morphologic analysis on exopolysaccharide and biomass production from a truffle endophytic fungus <i>Hypocreales</i> sp. NCHU01. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 108-114.	5.3	14
53	Simultaneous purification and immobilization of penicillin G acylase using bifunctional membrane. <i>Journal of Membrane Science</i> , 2007, 298, 24-29.	8.2	13
54	An Efficient Approach for Lipase-Catalyzed Synthesis of Retinyl Laurate Nutraceutical by Combining Ultrasound Assistance and Artificial Neural Network Optimization. <i>Molecules</i> , 2017, 22, 1972.	3.8	13

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55	Quantitative analysis of LED effects on edible mushroom <i>Pleurotus eryngii</i> in solid and submerged cultures. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1841-1846.	3.2	12
56	Co-Immobilization of Xylanase and Scaffolding Protein onto an Immobilized Metal Ion Affinity Membrane. <i>Catalysts</i> , 2020, 10, 1408.	3.5	12
57	Optimized dyeing conditions of immunoprotein with reactive dye Procion Blue MX-7RX. <i>Analytical Biochemistry</i> , 2007, 361, 190-196.	2.4	11
58	Development of the reversible PGA immobilization by using the immobilized metal ion affinity membrane. <i>Journal of Membrane Science</i> , 2012, 401-402, 33-39.	8.2	10
59	Optimization of Lipase-catalyzed Synthesis of Cetyl Octanoate in Supercritical Carbon Dioxide. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 103-110.	1.9	10
60	Ultrasound-assisted (R)-phenylephrine whole-cell bioconversion by <i>S. marcescens</i> N10612. <i>Ultrasonics Sonochemistry</i> , 2015, 26, 415-421.	8.2	10
61	Effects of using various bioreactors on chitinolytic enzymes production by <i>Paenibacillus taichungensis</i> . <i>Biochemical Engineering Journal</i> , 2010, 49, 337-342.	3.6	9
62	Exploring the complex effects of metal ions on d-hydantoinase purification with an immobilized metal affinity membrane. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 735-740.	5.3	9
63	The use of mushroom hydrolysate from waste bag-log as the nitrogen source to mycelium biomass and exopolysaccharide production in <i>Pleurotus eryngii</i> cultivation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 163-168.	5.3	8
64	Polyhydroxylated steroids and triterpenoids from an entophytic fungus, <i>Hypocreales</i> sp. NCHU01 isolated from <i>Tuber magnatum</i> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 64, 22-30.	5.3	8
65	Enhanced surfactin production via the addition of layered double hydroxides. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 10-15.	5.3	8
66	Shaking Rate during Production Affects the Activity of <i>Escherichia coli</i> Surface-Displayed <i>Candida antarctica</i> Lipase A. <i>Catalysts</i> , 2020, 10, 382.	3.5	8
67	Optimization of the Extraction of <i>Alpinia oxyphylla</i> Essence Oil in Supercritical Carbon Dioxide. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2010, 87, 1063-1070.	1.9	7
68	Antibacterial Peptide CecropinB2 Production via Various Host and Construct Systems. <i>Molecules</i> , 2016, 21, 103.	3.8	7
69	Evaluation of antioxidative performance of tomato extracts obtained by different methods. <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 612-618.	3.5	6
70	Development of a disperse dye immunochromatographic test for the detection of antibodies against infectious bursal disease virus. <i>Veterinary Immunology and Immunopathology</i> , 2008, 125, 284-290.	1.2	6
71	Production of recombinant EGFP via surface display of ice nucleation protein and self-cleavage intein. <i>Biochemical Engineering Journal</i> , 2011, 54, 158-163.	3.6	6
72	Enhanced d-hydantoinase activity performance via immobilized cobalt ion affinity membrane and its kinetic study. <i>Biochemical Engineering Journal</i> , 2013, 79, 200-205.	3.6	6

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73	Green Synthesis of Ultraviolet Absorber 2-Ethylhexyl Salicylate: Experimental Design and Artificial Neural Network Modeling. <i>Catalysts</i> , 2017, 7, 342.	3.5	6
74	Enhanced cecropin B2 production via chitin-binding domain and intein self-cleavage system. <i>Biotechnology and Applied Biochemistry</i> , 2019, 66, 209-215.	3.1	6
75	Continuous Production of DHA and EPA Ethyl Esters via Lipase-Catalyzed Transesterification in an Ultrasonic Packed-Bed Bioreactor. <i>Catalysts</i> , 2022, 12, 404.	3.5	6
76	Optimization of ultrasound-accelerated synthesis of enzymatic octyl hydroxyphenylpropionate by response surface methodology. <i>Biotechnology Progress</i> , 2010, 26, 1629-1634.	2.6	5
77	Deciphering the roles of fatty acids and oils in fungichromin enhancement from <i>Streptomyces padanus</i> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2011, 42, 413-418.	5.3	5
78	Product Selectivity and Optimization of Lipase-Catalyzed 1,3-Propylene Glycol Esters by Mixture Design and RSM. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2012, 89, 231-241.	1.9	5
79	Formation of amide bond catalyzed by lipase in aqueous phase for peptide synthesis. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 129, 15-20.	1.8	5
80	Evaluation on the use of reactive dye-modified polylysine as the biomarker in immunochromatographic test application. <i>Analytical Biochemistry</i> , 2011, 411, 236-240.	2.4	4
81	Construction of a thin-film immunosensor with self-doping polyaniline modified electrode for human serum albumin detection. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	4
82	Deciphering EGFP production via surface display and self-cleavage intein system in different hosts. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 55, 1-6.	5.3	4
83	Enhanced bioconversion rate and released substrate inhibition in (R)-phenylephrine whole-cell bioconversion via partial acetone treatment. <i>Enzyme and Microbial Technology</i> , 2016, 86, 34-38.	3.2	4
84	Optimal stimulation of <i>Houttuynia cordata</i> herbal extract as electron shuttle for bioenergy extraction in microbial fuel cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 47-56.	5.3	4
85	Green and efficient production of octyl hydroxyphenylpropionate using an ultrasound-assisted packed-bed bioreactor. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012, 39, 655-660.	3.0	3
86	A green peptide synthesis—Using a magnetic biocatalyst in a stirred-tank bioreactor. <i>Biocatalysis and Agricultural Biotechnology</i> , 2012, 1, 20-24.	3.1	3
87	Production of d-hydantoinase via surface display and self-cleavage system. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 562-566.	2.2	3
88	Deciphering characteristics of the designer cellulosome from <i>Bacillus subtilis</i> WB800N via enzymatic analysis. <i>Biochemical Engineering Journal</i> , 2017, 117, 147-155.	3.6	3
89	Mg-Fe Layered Double Hydroxides Enhance Surfactin Production in Bacterial Cells. <i>Crystals</i> , 2019, 9, 355.	2.2	3
90	A neural network model for estimating O ₂ absorption coefficient in shake-flasks. <i>Biotechnology Letters</i> , 2000, 22, 1885-1888.	2.2	2

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91	Incorporation of DNA chip technology to the simulation and validation of flux analysis in yeast diauxic growth. <i>Life Sciences</i> , 2003, 72, 2525-2531.	4.3	2
92	Application of nano-carbon black to immunochromatographic test. <i>Journal of Biotechnology</i> , 2008, 136, S193.	3.8	2
93	Lipase catalyzed acetylation of 3,5,4-trihydroxystilbene: optimization and kinetics study. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 1137-1145.	3.4	2
94	Cell disruption enhanced the pure EGFP recovery from an EGFP-intein-surface protein production system in recombinant <i>E. coli</i> . <i>Biochemical Engineering Journal</i> , 2012, 68, 12-18.	3.6	2
95	Study on Cecropin B2 Production via Construct Bearing Intein Oligopeptide Cleavage Variants. <i>Molecules</i> , 2020, 25, 1005.	3.8	2
96	Recent Advances in Biocatalysis and Metabolic Engineering. <i>Catalysts</i> , 2021, 11, 1052.	3.5	2
97	Enhanced Erinacine A Production by <i>Herichium erinaceus</i> Using Solid-State Cultivation. <i>Fermentation</i> , 2021, 7, 182.	3.0	2
98	Production, purification, and structural characteristics of extracellular polysaccharides derived from <i>Lactobacillus acidophilus</i> . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 137, 104189.	5.3	2
99	Solvent selection and optimization of α -chymotrypsin-catalyzed synthesis of N -acetyl-L-phenylalanine-L-tyrosine using mixture design and response surface methodology. <i>Biotechnology Progress</i> , 2012, 28, 1443-1449.	2.6	1
100	Development of an enzymatic chromatography strip with nicotinamide adenine dinucleotide-tetrazolium coupling reactions for quantitative L-lactate analysis. <i>Analytical Biochemistry</i> , 2015, 471, 61-66.	2.4	1
101	Construction of a Tandem Repeat Peptide Sequence with Pepsin Cutting Sites to Produce Recombinant α -Melanocyte-Stimulating Hormone. <i>Molecules</i> , 2021, 26, 6207.	3.8	0