

# Yu-Kaung Chang

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,335  
citations

304602

22  
h-index

377752

34  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1358  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Developments on Genetic Engineering of Microalgae for Biofuels and Bio-Based Chemicals. <i>Biotechnology Journal</i> , 2017, 12, 1600644.	1.8	162
2	Antibacterial activity of quaternized chitosan modified nanofiber membrane. <i>International Journal of Biological Macromolecules</i> , 2019, 126, 569-577.	3.6	125
3	Feasibility assessment of removal of heavy metals and soluble microbial products from aqueous solutions using eggshell wastes. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 773-786.	2.1	63
4	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.	4.8	55
5	Antibacterial efficacy of quaternized chitosan/poly (vinyl alcohol) nanofiber membrane crosslinked with blocked diisocyanate. <i>Carbohydrate Polymers</i> , 2021, 262, 117910.	5.1	51
6	Removal of cationic dye waste by nanofiber membrane immobilized with waste proteins. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3873-3884.	3.6	45
7	Highly efficient dye removal and lysozyme purification using strong and weak cation-exchange nanofiber membranes. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 1410-1421.	3.6	38
8	Removal of Ionic Dyes by Nanofiber Membrane Functionalized with Chitosan and Egg White Proteins: Membrane Preparation and Adsorption Efficiency. <i>Membranes</i> , 2022, 12, 63.	1.4	38
9	Purification of lysozyme from chicken egg white using nanofiber membrane immobilized with Reactive Orange 4 dye. <i>International Journal of Biological Macromolecules</i> , 2019, 134, 458-468.	3.6	37
10	Antibacterial efficacy of chitosan- and poly(hexamethylene biguanide)-immobilized nanofiber membrane. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 844-854.	3.6	35
11	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.	1.1	34
12	Kinetic study of immobilized lysozyme on the extrudate-shaped NaY zeolite. <i>Process Biochemistry</i> , 2006, 41, 1864-1874.	1.8	32
13	Method development for direct recovery of lysozyme from highly crude chicken egg white by stirred fluidized bed technique. <i>Biochemical Engineering Journal</i> , 2006, 30, 63-75.	1.8	31
14	Efficient carbon dioxide sequestration by using recombinant carbonic anhydrase. <i>Process Biochemistry</i> , 2018, 73, 38-46.	1.8	31
15	Characterization of BSA adsorption on mixed mode adsorbent. <i>Biochemical Engineering Journal</i> , 2007, 35, 56-65.	1.8	30
16	Batch and dynamic adsorption of lysozyme from chicken egg white on dye-affinity nanofiber membranes modified by ethylene diamine and chitosan. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1711-1724.	3.6	30
17	Fabrication of bio-based polyamide 66 and antibacterial nanofiber membrane from cadaverine. <i>Chemosphere</i> , 2021, 266, 128967.	4.2	30
18	Removal of soluble microbial products and dyes using heavy metal wastes decorated on eggshell. <i>Chemosphere</i> , 2021, 270, 128615.	4.2	29

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19	Dye Affinity Nanofiber Membrane for Adsorption of Lysozyme: Preparation and Performance Evaluation. <i>Food Technology and Biotechnology</i> , 2018, 56, 40-50.	0.9	27
20	Equilibrium study of immobilized lysozyme on the extrudate-shaped NaY zeolite. <i>Biochemical Engineering Journal</i> , 2006, 28, 1-9.	1.8	25
21	Rapid and efficient recovery of C-phycoerythrin from highly turbid <i>Spirulina platensis</i> algae using stirred fluidized bed ion exchange chromatography. <i>Separation and Purification Technology</i> , 2019, 209, 636-645.	3.9	24
22	Effective purification of lysozyme from chicken egg white by tris(hydroxymethyl)aminomethane affinity nanofiber membrane. <i>Food Chemistry</i> , 2020, 327, 127038.	4.2	23
23	Removal of protein wastes by cylinder-shaped NaY zeolite adsorbents decorated with heavy metal wastes. <i>International Journal of Biological Macromolecules</i> , 2021, 185, 761-772.	3.6	22
24	Crosslinked on novel nanofibers with thermophilic carbonic anhydrase for carbon dioxide sequestration. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 930-938.	3.6	21
25	Removal of calcium ions from aqueous solution by bovine serum albumin (BSA)-modified nanofiber membrane: Dynamic adsorption performance and breakthrough analysis. <i>Biochemical Engineering Journal</i> , 2021, 171, 108016.	1.8	21
26	Rapid purification of lysozyme by mixed-mode adsorption chromatography in stirred fluidized bed. <i>Food Chemistry</i> , 2019, 272, 619-627.	4.2	18
27	ARduino pH Tracker and screening platform for characterization of recombinant carbonic anhydrase in <i>Escherichia coli</i> . <i>Biotechnology Progress</i> , 2019, 35, e2834.	1.3	17
28	Enhancement of C-phycoerythrin purity using negative chromatography with chitosan-modified nanofiber membrane. <i>International Journal of Biological Macromolecules</i> , 2019, 132, 615-628.	3.6	17
29	Evaluation of dynamic binding performance of C-phycoerythrin and allophycoerythrin in <i>Spirulina platensis</i> algae by aminated polyacrylonitrile nanofiber membrane. <i>Biochemical Engineering Journal</i> , 2020, 161, 107686.	1.8	17
30	Production of bioethanol from Napier grass via simultaneous saccharification and co-fermentation in a modified bioreactor. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 184-188.	1.1	16
31	A simple method for cell disruption by immobilization of lysozyme on the extrudate-shaped NaY zeolite: Recirculating packed bed disruption process. <i>Biochemical Engineering Journal</i> , 2019, 141, 210-216.	1.8	16
32	Extraction of agar from <i>Eucheuma cottonii</i> and <i>Gelidium amansii</i> seaweeds with sonication pretreatment using autoclaving method. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 871-880.	0.6	15
33	A rapid and efficient technique for direct extraction of C-phycoerythrin from highly turbid <i>Spirulina platensis</i> algae using hydrophobic interaction chromatography in stirred fluidized bed. <i>Biochemical Engineering Journal</i> , 2018, 140, 47-56.	1.8	14
34	Direct recovery of malate dehydrogenase from highly turbid yeast cell homogenate using dye-ligand affinity chromatography in stirred fluidized bed. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1100-1101, 65-75.	1.2	13
35	Removal of dye waste by weak cation-exchange nanofiber membrane immobilized with waste egg white proteins. <i>International Journal of Biological Macromolecules</i> , 2020, 165, 2494-2507.	3.6	13
36	Adsorption and purification performance of lysozyme from chicken egg white using ion exchange nanofiber membrane modified by ethylene diamine and bromoacetic acid. <i>Food Chemistry</i> , 2021, 358, 129914.	4.2	13

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37	Simple two-step procedure for purification of cloned small sialidase from unclarified <i>E. coli</i> feedstocks. <i>Enzyme and Microbial Technology</i> , 1998, 23, 204-210.	1.6	11
38	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.	1.1	11
39	Liquid Biphasic Electric Partitioning System as a Novel Integration Process for Betacyanins Extraction From Red-Purple Pitaya and Antioxidant Properties Assessment. <i>Frontiers in Chemistry</i> , 2019, 7, 201.	1.8	11
40	Antibacterial efficacy of poly(hexamethylene biguanide) immobilized on chitosan/dye-modified nanofiber membranes. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 508-520.	3.6	11
41	Purification of lysozyme from chicken egg white by high-density cation exchange adsorbents in stirred fluidized bed adsorption system. <i>Food Chemistry</i> , 2021, 343, 128543.	4.2	10
42	Electrospinning of Quaternized Chitosan-Poly(vinyl alcohol) Composite Nanofiber Membrane: Processing Optimization and Antibacterial Efficacy. <i>Membranes</i> , 2022, 12, 332.	1.4	10
43	Direct recovery of alcohol dehydrogenase from unclarified yeast cell homogenate by IDEBAC using an improved scheme for elution. <i>Biochemical Engineering Journal</i> , 2006, 30, 1-10.	1.8	8
44	Construction and co-cultivation of two mutant strains harboring key precursor genes to produce prodigiosin. <i>Journal of Bioscience and Bioengineering</i> , 2018, 126, 783-789.	1.1	6
45	Egg white lysozyme purification by a stirred cell contactor equipped with a weak ion-exchange nanofiber membrane: Process development and scale-up. <i>Food Chemistry</i> , 2021, 338, 128144.	4.2	6
46	Direct recovery of clotting factor IX from unclarified human plasma by expanded bed ion exchange chromatography. <i>Biochemical Engineering Journal</i> , 2006, 30, 138-146.	1.8	5
47	A process for simultaneously achieving phenol biodegradation and polyhydroxybutyrate accumulation using <i>Cupriavidus taiwanensis</i> 187. <i>Journal of Polymer Research</i> , 2018, 25, 1.	1.2	5
48	Direct recovery of enhanced green fluorescent protein from unclarified <i>Escherichia coli</i> homogenate using ion exchange chromatography in stirred fluidized bed. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 4455-4465.	3.6	5
49	Kinetic and Thermodynamic Studies of Lysozyme Adsorption on Cibacron Blue F3GA Dye-Ligand Immobilized on Aminated Nanofiber Membrane. <i>Membranes</i> , 2021, 11, 963.	1.4	5
50	Optimization of three-phase fluidized bed cell disruptor for the release of alcohol dehydrogenase from baker's yeast. <i>Chemical Engineering Journal</i> , 2020, 386, 121224.	6.6	3
51	Direct recovery of malate dehydrogenase from highly viscous yeast cell homogenate by a fluidized bed contactor equipped with an agitator. <i>Biochemical Engineering Journal</i> , 2022, 183, 108461.	1.8	0