Christopher Q Lan

List of Publications by Year
in descending order

83 papers	8,620 citations	81900 39 h-index	58581 82 g-index
85 all docs	85 docs citations	85 times ranked	9098 citing authors

#	Article	IF	Citations
1	Effect of phosphate in medium on cell growth and Cu(II) biosorption by green alga Neochloris oleoabundans. Chemical Engineering Research and Design, 2022, 185, 186-197.	5.6	3
2	Chemical precipitation enabled UF and MF filtration for lead removal. Journal of Water Process Engineering, 2021, 41, 101987.	5.6	45
3	Enhanced Pb(II) removal by green alga Neochloris oleoabundans cultivated in high dissolved inorganic carbon cultures. Chemical Engineering Journal, 2021, 416, 128983.	12.7	19
4	Biosorption of heavy metal ions by green alga Neochloris oleoabundans: Effects of metal ion properties and cell wall structure. Journal of Hazardous Materials, 2021, 418, 126336.	12.4	53
5	Pore wetting in membrane distillation: A comprehensive review. Progress in Materials Science, 2021, 122, 100843.	32.8	92
6	Graphene quantum dot incorporation in the zeolitic imidazolate framework with sodalite (SOD) topology: Synthesis and improving the adsorption ability in liquid phase. Journal of Environmental Chemical Engineering, 2021, 9, 106303.	6.7	10
7	A reverse approach to evaluate membrane pore size distribution by the bubble gas transport method using fewer experimental data points. Desalination, 2021, 518, 115287.	8.2	3
8	Micro- and nano-plastics in marine environment: Source, distribution and threats â€" A review. Science of the Total Environment, 2020, 698, 134254.	8.0	418
9	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. Desalination, 2020, 476, 114231.	8.2	25
10	Transport characteristics of liquid-gas interface in a capillary membrane pore. Journal of Membrane Science, 2020, 611, 118387.	8.2	22
11	Optimization of nanocomposite membrane for vacuum membrane distillation (VMD) using static and continuous flow cells: Effect of nanoparticles and film thickness. Separation and Purification Technology, 2020, 241, 116685.	7.9	29
12	Triple-Layered Nanofibrous Metalâ€"Organic Framework-Based Membranes for Desalination by Direct Contact Membrane Distillation. ACS Sustainable Chemistry and Engineering, 2020, 8, 6601-6610.	6.7	40
13	Production, isolation and bioactive estimation of extracellular polysaccharides of green microalga Neochloris oleoabundans. Algal Research, 2020, 48, 101883.	4.6	18
14	Developments in evaporative cooling and enhanced evaporative cooling - A review. Renewable and Sustainable Energy Reviews, 2019, 113, 109230.	16.4	130
15	Advances in biosynthesis of noble metal nanoparticles mediated by photosynthetic organismsâ€"A review. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110519.	5.0	33
16	The performance of polyvinylidene fluoride - polytetrafluoroethylene nanocomposite distillation membranes: An experimental and numerical study. Separation and Purification Technology, 2019, 226, 192-208.	7.9	30
17	Effects of operating parameters and coexisting ions on the efficiency of heavy metal ions removal by nano-fibrous metal-organic framework membrane filtration process. Science of the Total Environment, 2019, 674, 355-362.	8.0	192
18	Effects of multi-walled carbon nanotubes (MWCNTs) and integrated MWCNTs/SiO2 nano-additives on PVDF polymeric membranes for vacuum membrane distillation. Separation and Purification Technology, 2019, 217, 154-163.	7.9	60

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19	Modeling of pore wetting in vacuum membrane distillation. Journal of Membrane Science, 2019, 572, 332-342.	8.2	33
20	Effects of reaction conditions on light-dependent silver nanoparticle biosynthesis mediated by cell extract of green alga Neochloris oleoabundans. Environmental Science and Pollution Research, 2019, 26, 2873-2881.	5.3	20
21	Effects of shear stress on microalgae â€“ A review. Biotechnology Advances, 2018, 36, 986-1002.	11.7	139
22	Metalâ€“Organic Frameworks Supported on Nanofiber for Desalination by Direct Contact Membrane Distillation. ACS Applied Materials & Interfaces, 2018, 10, 11251-11260.	8.0	96
23	Metalâ€“organic frameworks supported on nanofibers to remove heavy metals. Journal of Materials Chemistry A, 2018, 6, 4550-4555.	10.3	261
24	Synergic effects of hydrophilic and hydrophobic nanoparticles on performance of nanocomposite distillation membranes: An experimental and numerical study. Separation and Purification Technology, 2018, 202, 45-58.	7.9	35
25	A Genetic Interaction Map of Insulin Production Identifies Mfi as an Inhibitor of Mitochondrial Fission. Endocrinology, 2018, 159, 3321-3330.	2.8	1
26	Insight Studies on Metal-Organic Framework Nanofibrous Membrane Adsorption and Activation for Heavy Metal Ions Removal from Aqueous Solution. ACS Applied Materials & Interfaces, 2018, 10, 18619-18629.	8.0	347
27	Effects of sodium bicarbonate on cell growth, lipid accumulation, and morphology of Chlorella vulgaris. Microbial Cell Factories, 2018, 17, 111.	4.0	42
28	Experiment and modeling for flux and permeate concentration of heavy metal ion in adsorptive membrane filtration using a metal-organic framework incorporated nanofibrous membrane. Chemical Engineering Journal, 2018, 352, 737-744.	12.7	151
29	Mechanism of light-dependent biosynthesis of silver nanoparticles mediated by cell extract of Neochloris oleoabundans. Colloids and Surfaces B: Biointerfaces, 2018, 170, 251-257.	5.0	38
30	Alleviation of oxygen stress on Neochloris oleoabundans: effects of bicarbonate and pH. Journal of Applied Phycology, 2017, 29, 143-152.	2.8	23
31	Protozoa inhibition by different salts: Osmotic stress or ionic stress?. Biotechnology Progress, 2017, 33, 1418-1424.	2.6	8
32	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. Applied Energy, 2017, 187, 910-928.	10.1	35
33	Cultivation of freshwater green alga Neochloris oleoabundans in nonâ€sterile media coâ€inoculated with protozoa. Canadian Journal of Chemical Engineering, 2016, 94, 439-445.	1.7	8
34	A study on the impact of SO2 on CO2 injectivity for CO2 storage in a Canadian saline aquifer. Applied Energy, 2016, 184, 329-336.	10.1	31
35	The heat and mass transfer of vacuum membrane distillation: Effect of active layer morphology with and without support material. Separation and Purification Technology, 2016, 164, 56-62.	7.9	36
36	Effects of Polymer Ratio and Film-Penetration Time on the Properties and Performance of Nanocomposite PVDF Membranes in Membrane Distillation. Industrial & Engineering Chemistry Research, 2016, 55, 9971-9982.	3.7	7

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37	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. ACS Applied Materials & Interfaces, 2016, 8, 15778-15787.	8.0	10
38	Effects of hydrophilic silica nanoparticles and backing material in improving the structure and performance of VMD PVDF membranes. Separation and Purification Technology, 2016, 157, 60-71.	7.9	55
39	Cultivation of Neochloris oleoabundans in bubble column photobioreactor with or without localized deoxygenation. Bioresource Technology, 2016, 206, 255-263.	9.6	28
40	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. Water Research, 2016, 89, 39-49.	11.3	94
41	Preparation of Hyflon AD60/PVDF composite hollow fiber membranes for vacuum membrane distillation. Separation and Purification Technology, 2016, 157, 1-8.	7.9	62
42	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. Separation and Purification Reviews, 2016, 45, 141-167.	5.5	78
43	Study on structure and vacuum membrane distillation performance of PVDF membranes: II. Influence of molecular weight. Chemical Engineering Journal, 2015, 276, 174-184.	12.7	59
44	Effects of hydrophilic CuO nanoparticles on properties and performance of PVDF VMD membranes. Desalination, 2015, 369, 75-84.	8.2	83
45	Development of solid super desiccants based on a polymeric superabsorbent hydrogel composite. RSC Advances, 2015, 5, 59583-59590.	3.6	36
46	Control of protozoa contamination and lipid accumulation in Neochloris oleoabundans culture: Effects of pH and dissolved inorganic carbon. Bioresource Technology, 2015, 197, 143-151.	9.6	58
47	Effects of superhydrophobic SiO2 nanoparticles on the performance of PVDF flat sheet membranes for vacuum membrane distillation. Desalination, 2015, 373, 47-57.	8.2	157
48	A study of the effect of impurities on CO 2 storage capacity in geological formations. International Journal of Greenhouse Gas Control, 2015, 42, 132-137.	4.6	32
49	Study on the structure and vacuum membrane distillation performance of PVDF composite membranes: I. Influence of blending. Separation and Purification Technology, 2014, 133, 303-312.	7.9	56
50	Criteria for the selection of a support material to fabricate coated membranes for a life support device. RSC Advances, 2014, 4, 38711-38717.	3.6	30
51	Potential of water hyacinth for phytoremediation in low temperature environment. Environmental Progress and Sustainable Energy, 2013, 32, 976-981.	2.3	3
52	Evolution, detrimental effects, and removal of oxygen in microalga cultures: A review. Environmental Progress and Sustainable Energy, 2013, 32, 982-988.	2.3	50
53	Man-portable personal cooling garment based on vacuum desiccant cooling. Applied Thermal Engineering, 2012, 47, 18-24.	6.0	51
54	Nickel nanoparticles synthesized by a modified polyol method for the purification of histidine-tagged single-domain antibody ToxA5.1. Journal of Materials Research, 2012, 27, 2884-2890.	2.6	11

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55	Plant Essential Oils and Mastitis Disease: Their Potential Inhibitory Effects on Pro-inflammatory Cytokine Production in Response to Bacteria Related Inflammation. Natural Product Communications, 2012, 7, 1934578X1200700.	0.5	8
56	Treatment of landfill leachate using membrane bioreactors: A review. Desalination, 2012, 287, 41-54.	8.2	350
57	Closed photobioreactors for production of microalgal biomasses. Biotechnology Advances, 2012, 30, 904-912.	11.7	342
58	Ice Cooling Vest on Tolerance for Exercise under Uncompensable Heat Stress. Journal of Occupational and Environmental Hygiene, 2011, 8, 484-491.	1.0	95
59	Production and Rheological Studies of Microalgal Extracellular Biopolymer from Lactose Using the Green Alga Neochloris oleoabundans. Journal of Polymers and the Environment, 2011, 19, 935-942.	5.0	26
60	Optimising the lipid production of the green alga Neochloris oleoabundans using boxâ€"behnken experimental design. Canadian Journal of Chemical Engineering, 2011, 89, 932-939.	1.7	30
61	Biomass production and nitrogen and phosphorus removal by the green alga Neochloris oleoabundans in simulated wastewater and secondary municipal wastewater effluent. Bioresource Technology, 2011, 102, 5639-5644.	9.6	171
62	Adsorption of textile dyes on Pine Cone from colored wastewater: Kinetic, equilibrium and thermodynamic studies. Desalination, 2011, 268, 117-125.	8.2	342
63	Effect of Operating Conditions on the Photobioreactor Cultivation of <I>Chlorella vulgaris</I>. Journal of Biobased Materials and Bioenergy, 2011, 5, 319-323.	0.3	1
64	Effects of Medium Composition on the Growth of <I>Chlorella vulgaris</I> During Photobioreactor Batch Cultivations. Journal of Biobased Materials and Bioenergy, 2010, 4, 68-72.	0.3	4
65	Excess molar enthalpies of the ternary mixtures: Methyl tertâ€butyl ether (or diâ€isopropyl) Tj ETQq1 1 0.784314 rgBT /Overlo 598-604.	1.7	2
66	Classification of bacterial cell wall hydrolysases and their potentials as novel alternatives to antibiotics - a response to the letter of Biziulevicius and Kazlauskaite. Journal of Applied Microbiology, 2009, 106, 1754-1759.	3.1	3
67	Enhancement of lipid production using biochemical, genetic and transcription factor engineering approaches. Journal of Biotechnology, 2009, 141, 31-41.	3.8	449
68	CO2 bio-mitigation using microalgae. Applied Microbiology and Biotechnology, 2008, 79, 707-718.	3.6	983
69	Effects of nitrogen sources on cell growth and lipid accumulation of green alga Neochloris oleoabundans. Applied Microbiology and Biotechnology, 2008, 81, 629-636.	3.6	952
70	Effects of glucose and nitrogen source concentration on batch fermentation kinetics of Lactococcus lactis under heminâ€stimulated respirative condition. Biotechnology Progress, 2008, 24, 852-858.	2.6	9
71	Biofuels from Microalgae. Biotechnology Progress, 2008, 24, 815-820.	2.6	794
72	Nickel and cobalt nanoparticles produced by laser ablation of solids in organic solution. Materials Letters, 2008, 62, 1521-1524.	2.6	108

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73	Biofuels from Microalgae. , 2008, 24, 815.		1
74	Optimization of fed-batch production of the model recombinant protein GFP inLactococcus lactis. Biotechnology and Bioengineering, 2007, 96, 1127-1138.	3.3	26
75	Novel alternatives to antibiotics: bacteriophages, bacterial cell wall hydrolases, and antimicrobial peptides. Journal of Applied Microbiology, 2007, 104, 070802123828004-???.	3.1	217
76	Excess molar enthalpies of the ternary mixtures: (tetrahydrofuran or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (2-methyltetrahydrofu Chemical Thermodynamics, 2006, 38, 572-577.	2.0	2
77	Excess molar enthalpies of the ternary mixtures (1-hexene+tetrahydrofuran or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (2- Thermodynamics, 2006, 38, 1606-1611.	2.0	4
78	Kinetics ofLactococcus lactis growth and metabolite formation under aerobic and anaerobic conditions in the presence or absence of hemin. Biotechnology and Bioengineering, 2006, 95, 1070-1080.	3.3	32
79	Design of Nanoparticles as Drug Carriers for Cancer Therapy. Cancer Genomics and Proteomics, 2006, 3, 147-157.	2.0	19
80	Liebermannâ€fried model parameters for calculating vapourâ€liquid equlibria of oxygenate and hydrocarbon mixtures. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2005, 28, 1089-1105.	1.1	4
81	Continuous protein recovery with a liquidâ€"solid circulating fluidized-bed ion exchanger. AICHE Journal, 2002, 48, 252-261.	3.6	43
82	Continuous protein recovery from whey using liquid-solid circulating fluidized bed ion-exchange extraction. Biotechnology and Bioengineering, 2002, 78, 157-163.	3.3	66
83	Continuous protein recovery using a liquidâ€"solid circulating fluidized bed ion exchange system: Modelling and experimental studies. Canadian Journal of Chemical Engineering, 2000, 78, 858-866.	1.7	41