

Christopher Q Lan

List of Publications by Year in descending order

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83
papers

8,620
citations

81743

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58464

82
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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 <i>Neochloris oleoabundans</i> . <i>Chemical Engineering Research and Design</i> , 2022, 185, 186-197.	2.7	3
2	Chemical precipitation enabled UF and MF filtration for lead removal. <i>Journal of Water Process Engineering</i> , 2021, 41, 101987.	2.6	45
3	Enhanced Pb(II) removal by green alga <i>Neochloris oleoabundans</i> cultivated in high dissolved inorganic carbon cultures. <i>Chemical Engineering Journal</i> , 2021, 416, 128983.	6.6	19
4	Biosorption of heavy metal ions by green alga <i>Neochloris oleoabundans</i> : Effects of metal ion properties and cell wall structure. <i>Journal of Hazardous Materials</i> , 2021, 418, 126336.	6.5	53
5	Pore wetting in membrane distillation: A comprehensive review. <i>Progress in Materials Science</i> , 2021, 122, 100843.	16.0	92
6	Graphene quantum dot incorporation in the zeolitic imidazolate framework with sodalite (SOD) topology: Synthesis and improving the adsorption ability in liquid phase. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106303.	3.3	10
7	A reverse approach to evaluate membrane pore size distribution by the bubble gas transport method using fewer experimental data points. <i>Desalination</i> , 2021, 518, 115287.	4.0	3
8	Micro- and nano-plastics in marine environment: Source, distribution and threats – A review. <i>Science of the Total Environment</i> , 2020, 698, 134254.	3.9	418
9	CFD-based genetic programming model for liquid entry pressure estimation of hydrophobic membranes. <i>Desalination</i> , 2020, 476, 114231.	4.0	25
10	Transport characteristics of liquid-gas interface in a capillary membrane pore. <i>Journal of Membrane Science</i> , 2020, 611, 118387.	4.1	22
11	Optimization of nanocomposite membrane for vacuum membrane distillation (VMD) using static and continuous flow cells: Effect of nanoparticles and film thickness. <i>Separation and Purification Technology</i> , 2020, 241, 116685.	3.9	29
12	Triple-Layered Nanofibrous Metal-Organic Framework-Based Membranes for Desalination by Direct Contact Membrane Distillation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6601-6610.	3.2	40
13	Production, isolation and bioactive estimation of extracellular polysaccharides of green microalga <i>Neochloris oleoabundans</i> . <i>Algal Research</i> , 2020, 48, 101883.	2.4	18
14	Developments in evaporative cooling and enhanced evaporative cooling - A review. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 113, 109230.	8.2	130
15	Advances in biosynthesis of noble metal nanoparticles mediated by photosynthetic organisms – A review. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 184, 110519.	2.5	33
16	The performance of polyvinylidene fluoride - polytetrafluoroethylene nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , 2019, 226, 192-208.	3.9	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. <i>Science of the Total Environment</i> , 2019, 674, 355-362.	3.9	192
18	Effects of multi-walled carbon nanotubes (MWCNTs) and integrated MWCNTs/SiO ₂ nano-additives on PVDF polymeric membranes for vacuum membrane distillation. <i>Separation and Purification Technology</i> , 2019, 217, 154-163.	3.9	60

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19	Modeling of pore wetting in vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2019, 572, 332-342.	4.1	33
20	Effects of reaction conditions on light-dependent silver nanoparticle biosynthesis mediated by cell extract of green alga <i>Neochloris oleoabundans</i> . <i>Environmental Science and Pollution Research</i> , 2019, 26, 2873-2881.	2.7	20
21	Effects of shear stress on microalgae – A review. <i>Biotechnology Advances</i> , 2018, 36, 986-1002.	6.0	139
22	Metal-Organic Frameworks Supported on Nanofiber for Desalination by Direct Contact Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11251-11260.	4.0	96
23	Metal-organic frameworks supported on nanofibers to remove heavy metals. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4550-4555.	5.2	261
24	Synergic effects of hydrophilic and hydrophobic nanoparticles on performance of nanocomposite distillation membranes: An experimental and numerical study. <i>Separation and Purification Technology</i> , 2018, 202, 45-58.	3.9	35
25	A Genetic Interaction Map of Insulin Production Identifies Mfi as an Inhibitor of Mitochondrial Fission. <i>Endocrinology</i> , 2018, 159, 3321-3330.	1.4	1
26	Insight Studies on Metal-Organic Framework Nanofibrous Membrane Adsorption and Activation for Heavy Metal Ions Removal from Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18619-18629.	4.0	347
27	Effects of sodium bicarbonate on cell growth, lipid accumulation, and morphology of <i>Chlorella vulgaris</i> . <i>Microbial Cell Factories</i> , 2018, 17, 111.	1.9	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. <i>Chemical Engineering Journal</i> , 2018, 352, 737-744.	6.6	151
29	Mechanism of light-dependent biosynthesis of silver nanoparticles mediated by cell extract of <i>Neochloris oleoabundans</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 251-257.	2.5	38
30	Alleviation of oxygen stress on <i>Neochloris oleoabundans</i> : effects of bicarbonate and pH. <i>Journal of Applied Phycology</i> , 2017, 29, 143-152.	1.5	23
31	Protozoa inhibition by different salts: Osmotic stress or ionic stress?. <i>Biotechnology Progress</i> , 2017, 33, 1418-1424.	1.3	8
32	Zero thermal input membrane distillation, a zero-waste and sustainable solution for freshwater shortage. <i>Applied Energy</i> , 2017, 187, 910-928.	5.1	35
33	Cultivation of freshwater green alga <i>Neochloris oleoabundans</i> in non-sterile media co-inoculated with protozoa. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 439-445.	0.9	8
34	A study on the impact of SO ₂ on CO ₂ injectivity for CO ₂ storage in a Canadian saline aquifer. <i>Applied Energy</i> , 2016, 184, 329-336.	5.1	31
35	The heat and mass transfer of vacuum membrane distillation: Effect of active layer morphology with and without support material. <i>Separation and Purification Technology</i> , 2016, 164, 56-62.	3.9	36
36	Effects of Polymer Ratio and Film-Penetration Time on the Properties and Performance of Nanocomposite PVDF Membranes in Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9971-9982.	1.8	7

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37	Development of Membrane-Based Desiccant Fiber for Vacuum Desiccant Cooling. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15778-15787.	4.0	10
38	Effects of hydrophilic silica nanoparticles and backing material in improving the structure and performance of VMD PVDF membranes. <i>Separation and Purification Technology</i> , 2016, 157, 60-71.	3.9	55
39	Cultivation of <i>Neochloris oleoabundans</i> in bubble column photobioreactor with or without localized deoxygenation. <i>Bioresource Technology</i> , 2016, 206, 255-263.	4.8	28
40	Enhanced performance of PVDF nanocomposite membrane by nanofiber coating: A membrane for sustainable desalination through MD. <i>Water Research</i> , 2016, 89, 39-49.	5.3	94
41	Preparation of Hyflon AD60/PVDF composite hollow fiber membranes for vacuum membrane distillation. <i>Separation and Purification Technology</i> , 2016, 157, 1-8.	3.9	62
42	Effects of Inorganic Nano-Additives on Properties and Performance of Polymeric Membranes in Water Treatment. <i>Separation and Purification Reviews</i> , 2016, 45, 141-167.	2.8	78
43	Study on structure and vacuum membrane distillation performance of PVDF membranes: II. Influence of molecular weight. <i>Chemical Engineering Journal</i> , 2015, 276, 174-184.	6.6	59
44	Effects of hydrophilic CuO nanoparticles on properties and performance of PVDF VMD membranes. <i>Desalination</i> , 2015, 369, 75-84.	4.0	83
45	Development of solid super desiccants based on a polymeric superabsorbent hydrogel composite. <i>RSC Advances</i> , 2015, 5, 59583-59590.	1.7	36
46	Control of protozoa contamination and lipid accumulation in <i>Neochloris oleoabundans</i> culture: Effects of pH and dissolved inorganic carbon. <i>Bioresource Technology</i> , 2015, 197, 143-151.	4.8	58
47	Effects of superhydrophobic SiO ₂ nanoparticles on the performance of PVDF flat sheet membranes for vacuum membrane distillation. <i>Desalination</i> , 2015, 373, 47-57.	4.0	157
48	A study of the effect of impurities on CO ₂ storage capacity in geological formations. <i>International Journal of Greenhouse Gas Control</i> , 2015, 42, 132-137.	2.3	32
49	Study on the structure and vacuum membrane distillation performance of PVDF composite membranes: I. Influence of blending. <i>Separation and Purification Technology</i> , 2014, 133, 303-312.	3.9	56
50	Criteria for the selection of a support material to fabricate coated membranes for a life support device. <i>RSC Advances</i> , 2014, 4, 38711-38717.	1.7	30
51	Potential of water hyacinth for phytoremediation in low temperature environment. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 976-981.	1.3	3
52	Evolution, detrimental effects, and removal of oxygen in microalga cultures: A review. <i>Environmental Progress and Sustainable Energy</i> , 2013, 32, 982-988.	1.3	50
53	Man-portable personal cooling garment based on vacuum desiccant cooling. <i>Applied Thermal Engineering</i> , 2012, 47, 18-24.	3.0	51
54	Nickel nanoparticles synthesized by a modified polyol method for the purification of histidine-tagged single-domain antibody ToxA5.1. <i>Journal of Materials Research</i> , 2012, 27, 2884-2890.	1.2	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. <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.2	8
56	Treatment of landfill leachate using membrane bioreactors: A review. <i>Desalination</i> , 2012, 287, 41-54.	4.0	350
57	Closed photobioreactors for production of microalgal biomasses. <i>Biotechnology Advances</i> , 2012, 30, 904-912.	6.0	342
58	Ice Cooling Vest on Tolerance for Exercise under Uncompensable Heat Stress. <i>Journal of Occupational and Environmental Hygiene</i> , 2011, 8, 484-491.	0.4	95
59	Production and Rheological Studies of Microalgal Extracellular Biopolymer from Lactose Using the Green Alga <i>Neochloris oleoabundans</i> . <i>Journal of Polymers and the Environment</i> , 2011, 19, 935-942.	2.4	26
60	Optimising the lipid production of the green alga <i>Neochloris oleoabundans</i> using boxâ€ˆbehnken experimental design. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 932-939.	0.9	30
61	Biomass production and nitrogen and phosphorus removal by the green alga <i>Neochloris oleoabundans</i> in simulated wastewater and secondary municipal wastewater effluent. <i>Bioresource Technology</i> , 2011, 102, 5639-5644.	4.8	171
62	Adsorption of textile dyes on Pine Cone from colored wastewater: Kinetic, equilibrium and thermodynamic studies. <i>Desalination</i> , 2011, 268, 117-125.	4.0	342
63	Effect of Operating Conditions on the Photobioreactor Cultivation of <i>Chlorella vulgaris</i> . <i>Journal of Biobased Materials and Bioenergy</i> , 2011, 5, 319-323.	0.1	1
64	Effects of Medium Composition on the Growth of <i>Chlorella vulgaris</i> During Photobioreactor Batch Cultivations. <i>Journal of Biobased Materials and Bioenergy</i> , 2010, 4, 68-72.	0.1	4
65	Excess molar enthalpies of the ternary mixtures: Methyl <i>tert</i> -butyl ether (or diâ€ˆisopropyl) Tj ETQq1 1 0.784314 rgBT /Overlock 598-604.	0.9	2
66	Classification of bacterial cell wall hydrolases and their potentials as novel alternatives to antibiotics - a response to the letter of Bizilevicius and Kazlauskaitė. <i>Journal of Applied Microbiology</i> , 2009, 106, 1754-1759.	1.4	3
67	Enhancement of lipid production using biochemical, genetic and transcription factor engineering approaches. <i>Journal of Biotechnology</i> , 2009, 141, 31-41.	1.9	449
68	CO2 bio-mitigation using microalgae. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 707-718.	1.7	983
69	Effects of nitrogen sources on cell growth and lipid accumulation of green alga <i>Neochloris oleoabundans</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 629-636.	1.7	952
70	Effects of glucose and nitrogen source concentration on batch fermentation kinetics of <i>Lactococcus lactis</i> under heminâ€ˆstimulated respirative condition. <i>Biotechnology Progress</i> , 2008, 24, 852-858.	1.3	9
71	Biofuels from Microalgae. <i>Biotechnology Progress</i> , 2008, 24, 815-820.	1.3	794
72	Nickel and cobalt nanoparticles produced by laser ablation of solids in organic solution. <i>Materials Letters</i> , 2008, 62, 1521-1524.	1.3	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 in <i>Lactococcus lactis</i> . <i>Biotechnology and Bioengineering</i> , 2007, 96, 1127-1138.	1.7	26
75	Novel alternatives to antibiotics: bacteriophages, bacterial cell wall hydrolases, and antimicrobial peptides. <i>Journal of Applied Microbiology</i> , 2007, 104, 070802123828004-???	1.4	217
76	Excess molar enthalpies of the ternary mixtures: (tetrahydrofuran or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td (2-methyltetrahydrofuran or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (2-hexene+tetrahydrofuran or) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td <i>Chemical Thermodynamics</i> , 2006, 38, 572-577.	1.0	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 <i>Thermodynamics</i> , 2006, 38, 1606-1611.	1.0	4
78	Kinetics of <i>Lactococcus lactis</i> growth and metabolite formation under aerobic and anaerobic conditions in the presence or absence of hemin. <i>Biotechnology and Bioengineering</i> , 2006, 95, 1070-1080.	1.7	32
79	Design of Nanoparticles as Drug Carriers for Cancer Therapy. <i>Cancer Genomics and Proteomics</i> , 2006, 3, 147-157.	1.0	19
80	Liebermann-Fried model parameters for calculating vapour-liquid equilibria of oxygenate and hydrocarbon mixtures. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2005, 28, 1089-1105.	0.6	4
81	Continuous protein recovery with a liquid-solid circulating fluidized-bed ion exchanger. <i>AICHE Journal</i> , 2002, 48, 252-261.	1.8	43
82	Continuous protein recovery from whey using liquid-solid circulating fluidized bed ion-exchange extraction. <i>Biotechnology and Bioengineering</i> , 2002, 78, 157-163.	1.7	66
83	Continuous protein recovery using a liquid-solid circulating fluidized bed ion exchange system: Modelling and experimental studies. <i>Canadian Journal of Chemical Engineering</i> , 2000, 78, 858-866.	0.9	41