

Chuang Xue

List of Publications by Year in descending order

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33
papers

2,005
citations

331259

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395343

33
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all docs

33
docs citations

33
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Prospective and development of butanol as an advanced biofuel. <i>Biotechnology Advances</i> , 2013, 31, 1575-1584.	6.0	225
2	Recent advances and state-of-the-art strategies in strain and process engineering for biobutanol production by <i>Clostridium acetobutylicum</i> . <i>Biotechnology Advances</i> , 2017, 35, 310-322.	6.0	208
3	High-titer n-butanol production by <i>Clostridium acetobutylicum</i> JB200 in fed-batch fermentation with intermittent gas stripping. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2746-2756.	1.7	191
4	Two-stage in situ gas stripping for enhanced butanol fermentation and energy-saving product recovery. <i>Bioresource Technology</i> , 2013, 135, 396-402.	4.8	147
5	A novel in situ gas stripping-pervaporation process integrated with acetone-butanol-ethanol fermentation for hyper n-butanol production. <i>Biotechnology and Bioengineering</i> , 2016, 113, 120-129.	1.7	138
6	Integrated butanol recovery for an advanced biofuel: current state and prospects. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 3463-3474.	1.7	134
7	Butanol production in acetone-butanol-ethanol fermentation with in situ product recovery by adsorption. <i>Bioresource Technology</i> , 2016, 219, 158-168.	4.8	123
8	Engineering <i>Clostridium acetobutylicum</i> with a histidine kinase knockout for enhanced n-butanol tolerance and production. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1011-1022.	1.7	117
9	Tuned Fabrication of the Aligned and Opened CNT Membrane with Exceptionally High Permeability and Selectivity for Bioalcohol Recovery. <i>Nano Letters</i> , 2018, 18, 6150-6156.	4.5	78
10	A carbon nanotube filled polydimethylsiloxane hybrid membrane for enhanced butanol recovery. <i>Scientific Reports</i> , 2014, 4, 5925.	1.6	67
11	Effect of zinc supplementation on acetone-butanol-ethanol fermentation by <i>Clostridium acetobutylicum</i> . <i>Journal of Biotechnology</i> , 2013, 165, 18-21.	1.9	64
12	Evaluation of hydrophobic micro-zeolite-mixed matrix membrane and integrated with acetone-butanol-ethanol fermentation for enhanced butanol production. <i>Biotechnology for Biofuels</i> , 2015, 8, 105.	6.2	50
13	The pervaporative membrane with vertically aligned carbon nanotube nanochannel for enhancing butanol recovery. <i>Journal of Membrane Science</i> , 2019, 577, 51-59.	4.1	49
14	Bridging chemical- and bio-catalysis: high-value liquid transportation fuel production from renewable agricultural residues. <i>Green Chemistry</i> , 2017, 19, 660-669.	4.6	46
15	Energy-efficient butanol production by <i>Clostridium acetobutylicum</i> with histidine kinase knockouts to improve strain tolerance and process robustness. <i>Green Chemistry</i> , 2021, 23, 2155-2168.	4.6	42
16	Evaluation of asymmetric polydimethylsiloxane-polyvinylidene fluoride composite membrane and incorporated with acetone-butanol-ethanol fermentation for butanol recovery. <i>Journal of Biotechnology</i> , 2014, 188, 158-165.	1.9	39
17	High-Performance n-Butanol Recovery from Aqueous Solution by Pervaporation with a PDMS Mixed Matrix Membrane Filled with Zeolite. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7777-7786.	1.8	34
18	A novel close-circulating vapor stripping-vapor permeation technique for boosting biobutanol production and recovery. <i>Biotechnology for Biofuels</i> , 2018, 11, 128.	6.2	30

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19	Metabolic Engineering of Histidine Kinases in <i>Clostridium beijerinckii</i> for Enhanced Butanol Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 214.	2.0	30
20	High temperature simultaneous saccharification and fermentation of corn stover for efficient butanol production by a thermotolerant <i>Clostridium acetobutylicum</i> . <i>Process Biochemistry</i> , 2021, 100, 20-25.	1.8	27
21	Transcriptional analysis of micronutrient zinc-associated response for enhanced carbohydrate utilization and earlier solventogenesis in <i>Clostridium acetobutylicum</i> . <i>Scientific Reports</i> , 2015, 5, 16598.	1.6	21
22	Pleiotropic regulation of a glucose-specific PTS in <i>Clostridium acetobutylicum</i> for high-efficient butanol production from corn stover without detoxification. <i>Biotechnology for Biofuels</i> , 2019, 12, 264.	6.2	21
23	Butanol production by <i>Clostridium</i> . <i>Advances in Bioenergy</i> , 2019, , 35-77.	0.5	20
24	Synergistic effect of calcium and zinc on glucose/xylose utilization and butanol tolerance of <i>Clostridium acetobutylicum</i> . <i>FEMS Microbiology Letters</i> , 2016, 363, fnw023.	0.7	17
25	Spray-coated PDMS/PVDF composite membrane for enhanced butanol recovery by pervaporation. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49738.	1.3	15
26	Electricity-enhanced anaerobic, non-photosynthetic mixotrophy by <i>Clostridium carboxidivorans</i> with increased carbon efficiency and alcohol production. <i>Energy Conversion and Management</i> , 2022, 252, 115118.	4.4	15
27	Carbon nanotube arrays hybrid membrane with excellent separation performance and conductivity. <i>Journal of Membrane Science</i> , 2021, 620, 118874.	4.1	14
28	Enhanced butanol production in <i>Clostridium acetobutylicum</i> by manipulating metabolic pathway genes. <i>Process Biochemistry</i> , 2022, 114, 134-138.	1.8	11
29	Semi-Supervised Learning-Based Calibration Model Building of NIR Spectroscopy for <i>In Situ</i> Measurement of Biochemical Processes Under Insufficiently and Inaccurately Labeled Samples. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12.	2.4	9
30	Synergetic Engineering of Central Carbon, Energy, and Redox Metabolisms for High Butanol Production and Productivity by <i>Clostridium acetobutylicum</i> . <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17137-17146.	1.8	6
31	Disruption of hydrogenase gene for enhancing butanol selectivity and production in <i>Clostridium acetobutylicum</i> . <i>Biochemical Engineering Journal</i> , 2021, 171, 108014.	1.8	6
32	Effects of orphan histidine kinases on clostridial sporulation progression and metabolism. <i>Biotechnology and Bioengineering</i> , 2022, 119, 226-235.	1.7	6
33	A high-efficient strategy for combinatorial engineering paralogous gene family: A case study on histidine kinases in <i>Clostridium</i> . <i>Biotechnology and Bioengineering</i> , 2021, 118, 2770-2780.	1.7	5