

Si-Yu Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

938

citations

18

h-index

30

g-index

41

ext. papers

1,046

ext. citations

5.7

avg, IF

4.46

L-index

#	Paper	IF	Citations
38	Increasing the λ Red mediated gene deletion efficiency in Escherichia coli using methyl phosphotriester-modified DNA. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022 , 104297	5.3	1
37	Growth Enhancement Facilitated by Gaseous CO ₂ through Heterologous Expression of Reductive Tricarboxylic acid Cycle Genes in Escherichia coli. <i>Fermentation</i> , 2021 , 7, 98	4.7	1
36	The Catalytic Role of RuBisCO for CO Recycling in. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 543807	5.8	5
35	Study on Cecropin B2 Production via Construct Bearing Intein Oligopeptide Cleavage Variants. <i>Molecules</i> , 2020 , 25,	4.8	1
34	Manipulating ATP supply improves in situ CO recycling by reductive TCA cycle in engineered. <i>Biotech</i> , 2020 , 10, 125	2.8	5
33	The Physiological Responses of Triggered by Phosphoribulokinase (PrkA) and Ribulose-1,5-Bisphosphate Carboxylase/Oxygenase (Rubisco). <i>Microorganisms</i> , 2020 , 8,	4.9	1
32	Mg-Fe Layered Double Hydroxides Enhance Surfactin Production in Bacterial Cells. <i>Crystals</i> , 2019 , 9, 3552.3		2
31	The production of poly(3-hydroxybutyrate) by thermophilic <i>Caldimonas manganoxidans</i> from glycerol. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	10
30	A novel method for preparing high purity <i>Actinobacillus succinogenes</i> stock and its long-term acid production in a packed bed reactor. <i>Bioresource Technology Reports</i> , 2018 , 2, 62-68	4.1	3
29	Co-Expression of ORF with PHB Depolymerase (PhaZ) in Escherichia coli Induces Efficient Whole-Cell Biodegradation of Polyesters. <i>Biotechnology Journal</i> , 2018 , 13, e1700560	5.6	4
28	Exceeding the theoretical fermentation yield in mixotrophic Rubisco-based engineered Escherichia coli. <i>Metabolic Engineering</i> , 2018 , 47, 445-452	9.7	20
27	Biorefining of protein waste for production of sustainable fuels and chemicals. <i>Biotechnology for Biofuels</i> , 2018 , 11, 256	7.8	41
26	Lignocellulosic butanol production from Napier grass using semi-simultaneous saccharification fermentation. <i>Bioresource Technology</i> , 2017 , 231, 101-108	11	49
25	The utilization of sweet potato vines as carbon sources for fermenting bio-butanol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 79, 7-13	5.3	11
24	The influence of support structures on cell immobilization and acetoneButanolEthanol (ABE) fermentation performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 78, 27-31	5.3	3
23	Cloning of phaCAB genes from thermophilic <i>Caldimonas manganoxidans</i> in Escherichia coli for poly(3-hydroxybutyrate) (PHB) production. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 6419-6430	5.7	12
22	Assessment of Acidified Fibrous Immobilization Materials for Improving Acetone-Butanol-Ethanol (ABE) Fermentation. <i>Fermentation</i> , 2017 , 3, 3	4.7	5

21	Bioreactors and in situ product recovery techniques for acetone-butanol-ethanol fermentation. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	18
20	Evaporation of binary mixtures and precision measurement by crystal resonator. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 800-809	4.9	2
19	Direct in situ butanol recovery inside the packed bed during continuous acetone-butanol-ethanol (ABE) fermentation. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7449-56	5.7	17
18	Production of biobutanol from cellulose hydrolysate by the Escherichia coli co-culture system. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	13
17	Performance of fed-batch acetone-butanol-ethanol (ABE) fermentation coupled with the integrated in situ extraction-gas stripping process and the fractional condensation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 60, 119-123	5.3	22
16	The comprehensive profile of fermentation products during in situ CO ₂ recycling by Rubisco-based engineered Escherichia coli. <i>Microbial Cell Factories</i> , 2016 , 15, 133	6.4	16
15	Systematic engineering of the central metabolism in Escherichia coli for effective production of n-butanol. <i>Biotechnology for Biofuels</i> , 2016 , 9, 69	7.8	33
14	The Feasibility of Thermophilic Caldimonas manganoxidans as a Platform for Efficient PHB Production. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 180, 852-871	3.2	9
13	The coupling of glycolysis and the Rubisco-based pathway through the non-oxidative pentose phosphate pathway to achieve low carbon dioxide emission fermentation. <i>Bioresource Technology</i> , 2015 , 187, 189-197	11	24
12	The morphology and degradation behavior of electrospun poly(3-hydroxybutyrate)/Magnetite and poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/Magnetite composites. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	12
11	An integrated in situ extraction-gas stripping process for Acetone-Butanol-Ethanol (ABE) fermentation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 2106-2110	5.3	26
10	Morphology and degradation behavior of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/layered double hydroxides composites. <i>European Polymer Journal</i> , 2014 , 59, 136-143	5.2	25
9	Process parameters for operating 1-butanol gas stripping in a fermentor. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 118, 558-64	3.3	20
8	Fermentation approach for enhancing 1-butanol production using engineered butanogenic Escherichia coli. <i>Bioresource Technology</i> , 2013 , 145, 204-9	11	28
7	Rubisco-based engineered Escherichia coli for in situ carbon dioxide recycling. <i>Bioresource Technology</i> , 2013 , 150, 79-88	11	38
6	Study of in situ 1-butanol pervaporation from A-B-E fermentation using a PDMS composite membrane: validity of solution-diffusion model for pervaporative A-B-E fermentation. <i>Biotechnology Progress</i> , 2011 , 27, 111-20	2.8	41
5	Performance of batch, fed-batch, and continuous A-B-E fermentation with pH-control. <i>Bioresource Technology</i> , 2011 , 102, 4241-50	11	124
4	Separation of 1-butanol by pervaporation using a novel tri-layer PDMS composite membrane. <i>Journal of Membrane Science</i> , 2010 , 363, 287-294	9.6	144

- 3 The feasibility of converting Cannabis sativa L. oil into biodiesel. *Bioresource Technology*, **2010**, 101, 8457-60 65
- 2 Coexpression of TorD enhances the transport of GFP via the TAT pathway. *Journal of Biotechnology*, **2006**, 122, 412-21 37 36
- 1 Integrated enzyme purification and immobilization processes with immobilized metal affinity adsorbents. *Process Biochemistry*, **2004**, 39, 1573-1581 48 50