

Yu-Sin Jang

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55
papers

3,326
citations

28
h-index

57
g-index

57
ext. papers

3,712
ext. citations

6.6
avg, IF

5.36
L-index

#	Paper	IF	Citations
55	Bio-based production of C2-C6 platform chemicals. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2437-59	5.9	291
54	A comprehensive metabolic map for production of bio-based chemicals. <i>Nature Catalysis</i> , 2019 , 2, 18-33	36.5	237
53	Butanol production from renewable biomass by clostridia. <i>Bioresource Technology</i> , 2012 , 123, 653-63	11	214
52	Metabolic engineering of <i>Clostridium acetobutylicum</i> ATCC 824 for isopropanol-butanol-ethanol fermentation. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 1416-23	4.8	190
51	Enhanced butanol production obtained by reinforcing the direct butanol-forming route in <i>Clostridium acetobutylicum</i> . <i>MBio</i> , 2012 , 3,	7.8	187
50	Production of succinic acid by metabolically engineered microorganisms. <i>Current Opinion in Biotechnology</i> , 2016 , 42, 54-66	11.4	169
49	Pore structure and surface properties of chemically modified activated carbons for adsorption mechanism and rate of Cr(VI). <i>Journal of Colloid and Interface Science</i> , 2002 , 249, 458-63	9.3	159
48	Preparation and characterization of activated carbon fibers supported with silver metal for antibacterial behavior. <i>Journal of Colloid and Interface Science</i> , 2003 , 261, 238-43	9.3	158
47	Systems metabolic engineering for chemicals and materials. <i>Trends in Biotechnology</i> , 2011 , 29, 370-8	15.1	156
46	Engineering of microorganisms for the production of biofuels and perspectives based on systems metabolic engineering approaches. <i>Biotechnology Advances</i> , 2012 , 30, 989-1000	17.8	128
45	Continuous butanol production with reduced byproducts formation from glycerol by a hyper producing mutant of <i>Clostridium pasteurianum</i> . <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 1485-94	5.7	118
44	Butanol production from renewable biomass: rediscovery of metabolic pathways and metabolic engineering. <i>Biotechnology Journal</i> , 2012 , 7, 186-98	5.6	116
43	Metabolic engineering of <i>Clostridium acetobutylicum</i> M5 for highly selective butanol production. <i>Biotechnology Journal</i> , 2009 , 4, 1432-40	5.6	108
42	Studies on pore structures and surface functional groups of pitch-based activated carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2003 , 260, 259-64	9.3	99
41	Interfacial Characteristics and Fracture Toughness of Electrolytically Ni-Plated Carbon Fiber-Reinforced Phenolic Resin Matrix Composites. <i>Journal of Colloid and Interface Science</i> , 2001 , 237, 91-97	9.3	78
40	One hundred years of clostridial butanol fermentation. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	72
39	Interlaminar and ductile characteristics of carbon fibers-reinforced plastics produced by nanoscaled electroless nickel plating on carbon fiber surfaces. <i>Journal of Colloid and Interface Science</i> , 2002 , 245, 383-90	9.3	70

38	Metabolic engineering of <i>Clostridium acetobutylicum</i> for butyric acid production with high butyric acid selectivity. <i>Metabolic Engineering</i> , 2014 , 23, 165-74	9.7	66
37	Acetone-butanol-ethanol production with high productivity using <i>Clostridium acetobutylicum</i> BKM19. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1646-53	4.9	66
36	Metabolic engineering of <i>Clostridium acetobutylicum</i> for the enhanced production of isopropanol-butanol-ethanol fuel mixture. <i>Biotechnology Progress</i> , 2013 , 29, 1083-8	2.8	60
35	Deciphering <i>Clostridium tyrobutyricum</i> Metabolism Based on the Whole-Genome Sequence and Proteome Analyses. <i>MBio</i> , 2016 , 7,	7.8	53
34	<i>Escherichia coli</i> W as a new platform strain for the enhanced production of L-valine by systems metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1140-7	4.9	53
33	Metabolic engineering of microorganisms for the production of higher alcohols. <i>MBio</i> , 2014 , 5, e01524-148	4.8	50
32	Redox-switch regulatory mechanism of thiolase from <i>Clostridium acetobutylicum</i> . <i>Nature Communications</i> , 2015 , 6, 8410	17.4	43
31	From genome sequence to integrated bioprocess for succinic acid production by <i>Mannheimia succiniciproducens</i> . <i>Applied Microbiology and Biotechnology</i> , 2008 , 79, 11-22	5.7	40
30	Metabolic engineering of clostridia for the production of chemicals. <i>Biofuels, Bioproducts and Biorefining</i> , 2015 , 9, 211-225	5.3	36
29	X-ray diffraction and X-ray photoelectron spectroscopy studies of Ni-P deposited onto carbon fiber surfaces: impact properties of a carbon-fiber-reinforced matrix. <i>Journal of Colloid and Interface Science</i> , 2003 , 263, 170-6	9.3	34
28	Metabolic engineering of <i>Clostridium acetobutylicum</i> for enhanced production of butyric acid. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 9355-63	5.7	33
27	Proteomic analyses of the phase transition from acidogenesis to solventogenesis using solventogenic and non-solventogenic <i>Clostridium acetobutylicum</i> strains. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 5105-15	5.7	26
26	Construction and characterization of shuttle vectors for succinic acid-producing rumen bacteria. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5411-20	4.8	24
25	Metabolic Engineering of for the Production of Hyaluronic Acid From Glucose and Galactose. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 351	5.8	21
24	Metabolic engineering of <i>Clostridium acetobutylicum</i> for the production of butyl butyrate. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 8319-8327	5.7	19
23	Development of a gene knockout system for <i>Ralstonia eutropha</i> H16 based on the broad-host-range vector expressing a mobile group II intron. <i>FEMS Microbiology Letters</i> , 2010 , 309, 193-208	2.8	19
22	Effects of nutritional enrichment on the production of acetone-butanol-ethanol (ABE) by <i>Clostridium acetobutylicum</i> . <i>Journal of Microbiology</i> , 2012 , 50, 1063-6	3	17
21	Recent Advances in Biobutanol Production. <i>Industrial Biotechnology</i> , 2015 , 11, 316-321	1.3	12

20	Engineering Clostridial Aldehyde/Alcohol Dehydrogenase for Selective Butanol Production. <i>MBio</i> , 2019 , 10,	7.8	10
19	Enzymatic defluorination of fluorinated compounds. <i>Applied Biological Chemistry</i> , 2019 , 62,	2.9	10
18	Genome analysis of a hyper acetone-butanol-ethanol (ABE) producing <i>Clostridium acetobutylicum</i> BKM19. <i>Biotechnology Journal</i> , 2017 , 12, 1600457	5.6	9
17	Characterization and evaluation of corn steep liquid in acetone-butanol-ethanol production by <i>Clostridium acetobutylicum</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2013 , 18, 266-271	3.1	9
16	Stable and enhanced gene expression in <i>Clostridium acetobutylicum</i> using synthetic untranslated regions with a stem-loop. <i>Journal of Biotechnology</i> , 2016 , 230, 40-3	3.7	9
15	Microbial production of butyl butyrate, a flavor and fragrance compound. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 2079-2086	5.7	9
14	Effects of nutritional enrichment on acid production from degenerated (non-solventogenic) <i>Clostridium acetobutylicum</i> strain M5. <i>Applied Biological Chemistry</i> , 2018 , 61, 469-472	2.9	8
13	Metabolic engineering of microorganisms for the production of ethanol and butanol from oxides of carbon. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 8283-8292	5.7	8
12	Synthetic Biology Tools for Genome and Transcriptome Engineering of Solventogenic. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 282	5.8	7
11	Chlorfenapyr Residue in Sweet Persimmon from Farm to Table. <i>Journal of Food Protection</i> , 2019 , 82, 810-814	2.5	6
10	Systems Metabolic Engineering of <i>Escherichia coli</i> for Chemicals, Materials, Biofuels, and Pharmaceuticals 2012 , 117-149		4
9	Succinic Acid 2016 , 505-544		3
8	Metabolic engineering of the genus <i>Clostridium</i> for butanol production. <i>Korean Journal of Microbiology</i> , 2016 , 52, 391-397		2
7	Control of the galactose-to-glucose consumption ratio in co-fermentation using engineered <i>Escherichia coli</i> strains. <i>Scientific Reports</i> , 2020 , 10, 12132	4.9	2
6	Characterization of an organic solvent-tolerant polysaccharide lyase from <i>Microbulbifer thermotolerans</i> DAU221. <i>International Journal of Biological Macromolecules</i> , 2021 , 169, 452-462	7.9	2
5	C1 Gas Refinery 2018 , 1-16		1
4	G-Knockdown Mutants Increase Extracellular pH in Batch Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 754250	5.8	0
3	Potential of Baeyer-Villiger monooxygenases as an enzyme for polyethylene decomposition. <i>Journal of Applied Biological Chemistry</i> , 2021 , 64, 433-438	0.7	0

- 2 Recent advances on bio-alcohol production from syngas using microorganisms. *Journal of Applied Biological Chemistry*, **2017**, 60, 333-338 0.7
- 1 Metabolic Engineering Strategies of Clostridia for Butyric Acid Production. *KSBB Journal*, **2017**, 32, 169-173