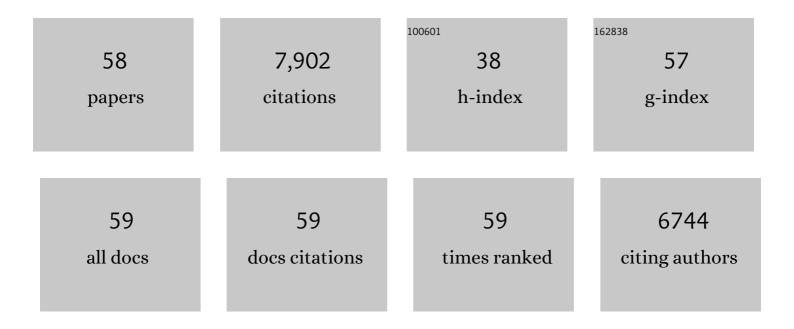
## Shota Atsumi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5163515/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Adaptive laboratory evolution for improved tolerance of isobutyl acetate in Escherichia coli. Metabolic Engineering, 2022, 69, 50-58.	3.6	13
2	Light-induced production of isobutanol and 3-methyl-1-butanol by metabolically engineered cyanobacteria. Microbial Cell Factories, 2022, 21, 7.	1.9	10
3	Synthetic Biology Approaches for Improving Chemical Production in Cyanobacteria. Frontiers in Bioengineering and Biotechnology, 2022, 10, 869195.	2.0	8
4	Microbial production of human milk oligosaccharide lactodifucotetraose. Metabolic Engineering, 2021, 66, 12-20.	3.6	14
5	Application of an engineered chromatic acclimation sensor for red-light-regulated gene expression in cyanobacteria. Algal Research, 2019, 44, 101691.	2.4	9
6	Nonphotosynthetic Biological CO <sub>2</sub> Reduction. Biochemistry, 2019, 58, 1470-1477.	1.2	28
7	Metabolic engineering tools in model cyanobacteria. Metabolic Engineering, 2018, 50, 47-56.	3.6	57
8	Electrical-biological hybrid system for CO2 reduction. Metabolic Engineering, 2018, 47, 211-218.	3.6	83
9	Photomixotrophic chemical production in cyanobacteria. Current Opinion in Biotechnology, 2018, 50, 65-71.	3.3	40
10	Global metabolic rewiring for improved CO2 fixation and chemical production in cyanobacteria. Nature Communications, 2017, 8, 14724.	5.8	159
11	Systematic Approaches to Efficiently Produce 2,3-Butanediol in a Marine Cyanobacterium. ACS Synthetic Biology, 2017, 6, 2136-2144.	1.9	41
12	Carbon recycling by cyanobacteria: improving CO2 fixation through chemical production. FEMS Microbiology Letters, 2017, 364, .	0.7	42
13	Engineering an Obligate Photoautotrophic Cyanobacterium to Utilize Glycerol for Growth and Chemical Production. ACS Synthetic Biology, 2017, 6, 69-75.	1.9	26
14	Cyanobacterial metabolic engineering for biofuel and chemical production. Current Opinion in Chemical Biology, 2016, 35, 43-50.	2.8	143
15	Biological conversion of gaseous alkenes to liquid chemicals. Metabolic Engineering, 2016, 38, 98-104.	3.6	13
16	Cyanobacterial chemical production. Journal of Biotechnology, 2016, 231, 106-114.	1.9	48
17	2,3 Butanediol production in an obligate photoautotrophic cyanobacterium in dark conditions via diverse sugar consumption. Metabolic Engineering, 2016, 36, 28-36.	3.6	39
18	Microbial production of scent and flavor compounds. Current Opinion in Biotechnology, 2016, 37, 8-15	3.3	103

**SHOTA ATSUMI** 

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19	Isobutanol production from cellobionic acid in Escherichia coli. Microbial Cell Factories, 2015, 14, 52.	1.9	46
20	Genome Engineering of the 2,3-Butanediol Biosynthetic Pathway for Tight Regulation in Cyanobacteria. ACS Synthetic Biology, 2015, 4, 1197-1204.	1.9	40
21	Two-dimensional isobutyl acetate production pathways to improve carbon yield. Nature Communications, 2015, 6, 7488.	5.8	44
22	A carbon sink pathway increases carbon productivity in cyanobacteria. Metabolic Engineering, 2015, 29, 106-112.	3.6	66
23	2-Keto acids based biosynthesis pathways for renewable fuels and chemicals. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 361-373.	1.4	32
24	Engineering trophic diversity into photosynthetic microbes. Biofuels, 2014, 5, 199-201.	1.4	0
25	Isobutanol production from cellobiose in Escherichia coli. Applied Microbiology and Biotechnology, 2014, 98, 3727-3736.	1.7	45
26	Expanding ester biosynthesis in Escherichia coli. Nature Chemical Biology, 2014, 10, 259-265.	3.9	179
27	Metabolic design for cyanobacterial chemical synthesis. Photosynthesis Research, 2014, 120, 249-261.	1.6	118
28	Biological Production of 2â€Butanone in <i>Escherichia coli</i> . ChemSusChem, 2014, 7, 92-95.	3.6	50
29	Metabolic engineering for higher alcohol production. Metabolic Engineering, 2014, 25, 174-182.	3.6	42
30	Toward aldehyde and alkane production by removing aldehyde reductase activity in Escherichia coli. Metabolic Engineering, 2014, 25, 227-237.	3.6	121
31	Combinatorial optimization of cyanobacterial 2,3-butanediol production. Metabolic Engineering, 2014, 22, 76-82.	3.6	98
32	Engineering a synthetic pathway in cyanobacteria for isopropanol production directly from carbon dioxide and light. Metabolic Engineering, 2013, 20, 101-108.	3.6	128
33	Synthetic Biology and Metabolic Engineering Approaches To Produce Biofuels. Chemical Reviews, 2013, 113, 4611-4632.	23.0	155
34	Photosynthetic approaches to chemical biotechnology. Current Opinion in Biotechnology, 2013, 24, 1031-1036.	3.3	42
35	Engineering Synechococcus elongatus PCC 7942 for Continuous Growth under Diurnal Conditions. Applied and Environmental Microbiology, 2013, 79, 1668-1675.	1.4	71
36	Cyanobacterial conversion of carbon dioxide to 2,3-butanediol. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1249-1254.	3.3	341

**SHOTA ATSUMI** 

#	Article	IF	CITATIONS
37	Cyanobacteria as a Platform for Biofuel Production. Frontiers in Bioengineering and Biotechnology, 2013, 1, 7.	2.0	172
38	Recent progress in synthetic biology for microbial production of C3–C10 alcohols. Frontiers in Microbiology, 2012, 3, 196.	1.5	51
39	Synthetic Biology Approaches to Produce C3-C6 Alcohols from Microorganisms. Current Chemical Biology, 2012, 6, 32-41.	0.2	2
40	Cyanobacterial biofuel production. Journal of Biotechnology, 2012, 162, 50-56.	1.9	243
41	lsobutyraldehyde production from Escherichia coli by removing aldehyde reductase activity. Microbial Cell Factories, 2012, 11, 90.	1.9	103
42	Alternative biofuel production in non-natural hosts. Current Opinion in Biotechnology, 2012, 23, 744-750.	3.3	31
43	Synthetic Biology Approaches to Produce C3-C6 Alcohols from Microorganisms. Current Chemical Biology, 2012, 6, 32-41.	0.2	6
44	Engineering the isobutanol biosynthetic pathway in Escherichia coli by comparison of three aldehyde reductase/alcohol dehydrogenase genes. Applied Microbiology and Biotechnology, 2010, 85, 651-657.	1.7	270
45	Evolution, genomic analysis, and reconstruction of isobutanol tolerance in <i>Escherichia coli</i> . Molecular Systems Biology, 2010, 6, 449.	3.2	252
46	Synthetic Biology Guides Biofuel Production. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-9.	3.0	59
47	An agar gel membrane-PDMS hybrid microfluidic device for long term single cell dynamic study. Lab on A Chip, 2010, 10, 2710.	3.1	24
48	Acetolactate Synthase from <i>Bacillus subtilis</i> Serves as a 2-Ketoisovalerate Decarboxylase for Isobutanol Biosynthesis in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2009, 75, 6306-6311.	1.4	92
49	Direct photosynthetic recycling of carbon dioxide to isobutyraldehyde. Nature Biotechnology, 2009, 27, 1177-1180.	9.4	769
50	Metabolic engineering for advanced biofuels production from Escherichia coli. Current Opinion in Biotechnology, 2008, 19, 414-419.	3.3	275
51	Metabolic engineering of Escherichia coli for 1-butanol production. Metabolic Engineering, 2008, 10, 305-311.	3.6	764
52	Non-fermentative pathways for synthesis of branched-chain higher alcohols as biofuels. Nature, 2008, 451, 86-89.	13.7	1,696
53	Directed Evolution of <i>Methanococcus jannaschii</i> Citramalate Synthase for Biosynthesis of 1-Propanol and 1-Butanol by <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2008, 74, 7802-7808.	1.4	226
54	Engineered Synthetic Pathway for Isopropanol Production in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 2007, 73, 7814-7818.	1.4	251

**SHOTA ATSUMI** 

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55	Role of the lytic repressor in prophage induction of phage  as analyzed by a module-replacement approach. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4558-4563.	3.3	42
56	A synthetic phage  regulatory circuit. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19045-19050.	3.3	31
57	Regulatory circuit design and evolution using phage Â. Genes and Development, 2004, 18, 2086-2094.	2.7	34
58	Putative intermediary stages for the molecular evolution from a ribozyme to a catalytic RNP. Nucleic Acids Research, 2003, 31, 1488-1496.	6.5	14