

Iwao Ohtsu

List of Publications by Year in descending order

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papers

719
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567281

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608
citing authors

#	ARTICLE	IF	CITATIONS
1	The l-Cysteine/l-Cystine Shuttle System Provides Reducing Equivalents to the Periplasm in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 17479-17487.	3.4	101
2	Enhancement of thioredoxin/glutaredoxin-mediated L-cysteine synthesis from S-sulfocysteine increases L-cysteine production in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2012, 11, 62.	4.0	61
3	The outer membrane TolC is involved in cysteine tolerance and overproduction in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2009, 81, 903-913.	3.6	59
4	Uptake of L-cystine via an ABC transporter contributes defense of oxidative stress in the L-cystine export-dependent manner in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2015, 10, e0120619.	2.5	51
5	l-Cysteine Metabolism and Fermentation in Microorganisms. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 159, 129-151.	1.1	44
6	Current understanding of sulfur assimilation metabolism to biosynthesize l-cysteine and recent progress of its fermentative overproduction in microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8203-8211.	3.6	44
7	Gram-scale fermentative production of ergothioneine driven by overproduction of cysteine in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 1895.	3.3	44
8	Heterologous and High Production of Ergothioneine in <i>Escherichia coli</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1191-1196.	5.2	41
9	Ergothioneine, a metabolite of the gut bacterium <i>Lactobacillus reuteri</i> , protects against stress-induced sleep disturbances. <i>Translational Psychiatry</i> , 2020, 10, 170.	4.8	41
10	Ergothioneine production with <i>Aspergillus oryzae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2019, 83, 181-184.	1.3	40
11	Enhancement of l-cysteine production by disruption of <i>yciW</i> in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 176-179.	2.2	35
12	Improved fermentative l-cysteine overproduction by enhancing a newly identified thiosulfate assimilation pathway in <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 6879-6889.	3.6	31
13	Involvement of the <i>yciW</i> gene in l-cysteine and l-methionine metabolism in <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 2015, 119, 310-313.	2.2	28
14	Finding of thiosulfate pathway for synthesis of organic sulfur compounds in <i>Saccharomyces cerevisiae</i> and improvement of ethanol production. <i>Journal of Bioscience and Bioengineering</i> , 2015, 120, 666-669.	2.2	19
15	Characterization of sulfur-compound metabolism underlying wax-ester fermentation in <i>Euglena gracilis</i> . <i>Scientific Reports</i> , 2019, 9, 853.	3.3	17
16	Effects of Thiosulfate as a Sulfur Source on Plant Growth, Metabolites Accumulation and Gene Expression in <i>Arabidopsis</i> and Rice. <i>Plant and Cell Physiology</i> , 2019, 60, 1683-1701.	3.1	17
17	High Production of Ergothioneine in <i>Escherichia coli</i> using the Sulfoxide Synthase from <i>Methylobacterium</i> strains. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 6390-6394.	5.2	16
18	Development of high-throughput quantitative analytical method for l-cysteine-containing dipeptides by LC-MS/MS toward its fermentative production. <i>AMB Express</i> , 2019, 9, 91.	3.0	11

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19	Generation of hydrogen sulfide from sulfur assimilation in <i>Escherichia coli</i> . Journal of General and Applied Microbiology, 2019, 65, 234-239.	0.7	6
20	Impact of spaceflight and artificial gravity on sulfur metabolism in mouse liver: sulfur metabolomic and transcriptomic analysis. Scientific Reports, 2021, 11, 21786.	3.3	6
21	A new therapy against ulcerative colitis via the intestine and brain using the Si-based agent. Scientific Reports, 2022, 12, .	3.3	5
22	Development of quantitative analytical method for volatile thiol compound with LC-ESI-MS as nonvolatile derivative by integrating a thiol-specific derivatization. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1932-1936.	1.3	2