

Kazuyuki Shimizu

List of Publications by Year in descending order

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44
papers

2,405
citations

304368

22
h-index

329751

37
g-index

44
all docs

44
docs citations

44
times ranked

2883
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple High-Throughput Analyses Monitor the Response of <i>E. coli</i> to Perturbations. <i>Science</i> , 2007, 316, 593-597.	6.0	694
2	Regulation Systems of Bacteria such as <i>Escherichia coli</i> in Response to Nutrient Limitation and Environmental Stresses. <i>Metabolites</i> , 2014, 4, 1-35.	1.3	212
3	Responses of the Central Metabolism in <i>Escherichia coli</i> to Phosphoglucose isomerase and Glucose-6-Phosphate Dehydrogenase Knockouts. <i>Journal of Bacteriology</i> , 2003, 185, 7053-7067.	1.0	173
4	Analysis of Gene Expression in <i>Escherichia coli</i> in Response to Changes of Growth-Limiting Nutrient in Chemostat Cultures. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2354-2366.	1.4	155
5	Effect of a single-gene knockout on the metabolic regulation in <i>Escherichia coli</i> for D-lactate production under microaerobic condition. <i>Metabolic Engineering</i> , 2005, 7, 104-115.	3.6	107
6	Metabolic regulation of <i>Escherichia coli</i> and its <i>phoB</i> and <i>phoR</i> genes knockout mutants under phosphate and nitrogen limitations as well as at acidic condition. <i>Microbial Cell Factories</i> , 2011, 10, 39.	1.9	91
7	Effect of <i>rpoS</i> gene knockout on the metabolism of <i>Escherichia coli</i> during exponential growth phase and early stationary phase based on gene expressions, enzyme activities and intracellular metabolite concentrations. <i>Biotechnology and Bioengineering</i> , 2006, 94, 585-595.	1.7	89
8	Metabolic flux analysis for <i>appc</i> mutant <i>Escherichia coli</i> based on ¹³ C-labelling experiments together with enzyme activity assays and intracellular metabolite measurements. <i>FEMS Microbiology Letters</i> , 2004, 235, 17-23.	0.7	88
9	Metabolic Regulation of a Bacterial Cell System with Emphasis on <i>Escherichia coli</i> Metabolism. , 2013, 2013, 1-47.		88
10	Catabolic regulation analysis of <i>Escherichia coli</i> and its <i>crp</i> , <i>mlc</i> , <i>mgsA</i> , <i>pgi</i> and <i>ptsG</i> mutants. <i>Microbial Cell Factories</i> , 2011, 10, 67.	1.9	79
11	Effect of <i>cra</i> gene knockout together with <i>edd</i> and <i>iclR</i> genes knockout on the metabolism in <i>Escherichia coli</i> . <i>Archives of Microbiology</i> , 2008, 190, 559-571.	1.0	54
12	Effects of <i>arcA</i> and <i>arcB</i> genes knockout on the metabolism in <i>Escherichia coli</i> under aerobic condition. <i>Biochemical Engineering Journal</i> , 2009, 44, 240-250.	1.8	45
13	Toward systematic metabolic engineering based on the analysis of metabolic regulation by the integration of different levels of information. <i>Biochemical Engineering Journal</i> , 2009, 46, 235-251.	1.8	44
14	Metabolic regulation of <i>Escherichia coli</i> and its <i>gdhA</i> , <i>glnL</i> , <i>gltB</i> , <i>D</i> mutants under different carbon and nitrogen limitations in the continuous culture. <i>Microbial Cell Factories</i> , 2010, 9, 8.	1.9	41
15	Metabolic Flux Analysis Based on ¹³ C-Labeling Experiments and Integration of the Information with Gene and Protein Expression Patterns. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2004, 91, 1-49.	0.6	39
16	Effects of <i>arcA</i> and <i>arcB</i> genes knockout on the metabolism in <i>Escherichia coli</i> under anaerobic and microaerobic conditions. <i>Biochemical Engineering Journal</i> , 2008, 42, 229-236.	1.8	38
17	Effect of temperature up-shift on fermentation and metabolic characteristics in view of gene expressions in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2008, 7, 35.	1.9	38
18	Metabolic Regulation and Coordination of the Metabolism in Bacteria in Response to a Variety of Growth Conditions. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2015, 155, 1-54.	0.6	36

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19	Effect of fadR gene knockout on the metabolism of Escherichia coli based on analyses of protein expressions, enzyme activities and intracellular metabolite concentrations. <i>Enzyme and Microbial Technology</i> , 2006, 38, 512-520.	1.6	29
20	Metabolic Pathway of Propionibacterium Growing with Oxygen: Enzymes, ¹³ C NMR Analysis, and Its Application for Vitamin B12 Production with Periodic Fermentation. <i>Biotechnology Progress</i> , 1999, 15, 201-207.	1.3	27
21	On-line Optimisation of Culture Temperature for Ethanol Fermentation Using a Genetic Algorithm. <i>Journal of Chemical Technology and Biotechnology</i> , 1996, 66, 217-222.	1.6	25
22	Growth phase-dependent changes in the expression of global regulatory genes and associated metabolic pathways in Escherichia coli. <i>Biotechnology Letters</i> , 2008, 30, 853-860.	1.1	23
23	Effects of Glucose, Vitamins, and DO Concentrations on Pyruvate Fermentation Using <i>Torulopsis glabrata</i> IFO 0005 with Metabolic Flux Analysis. <i>Biotechnology Progress</i> , 2001, 17, 62-68.	1.3	22
24	Cell Recycle and Broth Reuse Fermentation with Cross-Flow Filtration and Ion-Exchange Resin. <i>Journal of Chemical Technology and Biotechnology</i> , 1996, 66, 223-226.	1.6	19
25	Altered acetate metabolism and biomass production in several Escherichia coli mutants lacking rpoS-dependent metabolic pathway genes. <i>Molecular BioSystems</i> , 2008, 4, 160-169.	2.9	18
26	Effect of acidic condition on the metabolic regulation of Escherichia coli and its phoB mutant. <i>Archives of Microbiology</i> , 2013, 195, 161-171.	1.0	17
27	Effect of cra gene knockout together with other genes knockouts on the improvement of substrate consumption rate in Escherichia coli under microaerobic condition. <i>Biochemical Engineering Journal</i> , 2008, 42, 224-228.	1.8	16
28	Novel Repeated Batch Operation for Flash Fermentation System: Experimental Data and Mathematical Modelling. <i>Journal of Chemical Technology and Biotechnology</i> , 1996, 66, 340-346.	1.6	15
29	Optimal Operation Derived by Green's Theorem for the Cell-Recycle Filter Fermentation Focusing on the Efficient Use of the Medium. <i>Biotechnology Progress</i> , 1994, 10, 258-262.	1.3	14
30	On-line metabolic pathway analysis based on metabolic signal flow diagram. , 1998, 58, 139-148.		14
31	Investigation into the effect of soxR and soxS genes deletion on the central metabolism of Escherichia coli based on gene expressions and enzyme activities. <i>Biochemical Engineering Journal</i> , 2006, 30, 39-47.	1.8	14
32	Efficient fuzzy control strategies for the application of pH-stat to fed-batch cultivation of genetically engineered Escherichia coli. <i>Journal of Chemical Technology and Biotechnology</i> , 1994, 61, 273-281.	1.6	10
33	Metabolic flux analysis of a poly- β -hydroxybutyrate producing cyanobacterium, <i>Synechococcus</i> sp. MA19, grown under photoautotrophic conditions. <i>Biotechnology and Bioprocess Engineering</i> , 2002, 7, 295-302.	1.4	9
34	Metabolic regulation of an \hat{A} fnrgene knockout Escherichia coli under oxygen limitation. <i>Bioengineered Bugs</i> , 2011, 2, 331-337.	2.0	7
35	Efficient production of ethanol by a fermentation system employing temperature profiling and recycle. <i>Journal of Chemical Technology and Biotechnology</i> , 1995, 63, 141-146.	1.6	5
36	Metabolic Flux Analysis for Escherichia coli by Flux Balance Analysis. <i>Methods in Molecular Biology</i> , 2014, 1191, 237-260.	0.4	4

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37	On the development of an intelligent control system for recombinant cell culture. International Journal of Intelligent Systems, 1998, 13, 539-560.	3.3	2
38	Periodic change in DO concentration for efficient poly- β -hydroxy-butyrate production using temperature-inducible recombinant Escherichia coli with proteome analysis. Biotechnology and Bioprocess Engineering, 2002, 7, 281-288.	1.4	2
39	¹³ C-Metabolic Flux Analysis for Escherichia coli. Methods in Molecular Biology, 2014, 1191, 261-289.	0.4	2
40	Optimal Temperature and pH Pattern for the Cultivation of Temperature Inducible Gene Engineered Escherichia coli Utilizing Genetic Algorithm.. Kagaku Kogaku Ronbunshu, 1996, 22, 1391-1399.	0.1	0
41	Fermentation Characteristics in Conversion of Organic Acids Obtained by Oxidation of Low-Rank Coals to Poly(β -hydroxybutyrate) Using A. eutrophus Cells with Some Analysis on Metabolic Flux Distribution.. Kagaku Kogaku Ronbunshu, 1999, 25, 226-232.	0.1	0
42	The Characteristics of Mixed Culture Where One Type of Microorganism Assimilates the Metabolite Produced by Another.. Kagaku Kogaku Ronbunshu, 2000, 26, 861-868.	0.1	0
43	Metabolic Systems Engineering Approach for Efficient Microbial Fermentation and Future Perspectives. ACS Symposium Series, 2002, , 8-29.	0.5	0
44	Metabolic Flux Analysis Based on Isotope Labeling Technique and Metabolic Regulation Analysis with Gene and Protein Expressions. ACS Symposium Series, 2003, , 233-253.	0.5	0