

# Hiroshi Shimizu

## 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.

241 papers	4,920 citations	39 h-index	56 g-index
255 ext. papers	5,658 ext. citations	4.6 avg, IF	5.72 L-index

#	Paper	IF	Citations
241	Systems Biology of Cyanobacteria for Investigating Light Adaptive Mechanisms. <i>Seibutsu Butsuri</i> , <b>2022</b> , 62, 104-109	0	
240	Mutations in hik26 and slr1916 lead to high-light stress tolerance in <i>Synechocystis</i> sp. PCC6803. <i>Communications Biology</i> , <b>2021</b> , 4, 343	6.7	4
239	Random Transfer of Genes into Reveals a Complex Background of Heat Tolerance. <i>Journal of Fungi (Basel, Switzerland)</i> , <b>2021</b> , 7,	5.6	2
238	Estimation of linear and cyclic electron flows in photosynthesis based on C-metabolic flux analysis. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 131, 277-282	3.3	4
237	Identification of a rate-limiting step in a metabolic pathway using the kinetic model and in vitro experiment. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 131, 271-276	3.3	4
236	Role of type I NADH dehydrogenase in <i>Synechocystis</i> sp. PCC 6803 under phycobilisome excited red light. <i>Plant Science</i> , <b>2021</b> , 304, 110798	5.3	4
235	Thioredoxin pathway in <i>Anabaena</i> sp. PCC 7120: activity of NADPH-thioredoxin reductase C. <i>Journal of Biochemistry</i> , <b>2021</b> , 169, 709-719	3.1	1
234	Soft-sensor development for monitoring the lysine fermentation process. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 132, 183-189	3.3	1
233	Proteome analysis of response to different spectral light irradiation in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Proteomics</i> , <b>2021</b> , 246, 104306	3.9	1
232	Treatment of Retinoblastoma 1-Intact Hepatocellular Carcinoma With Cyclin-Dependent Kinase 4/6 Inhibitor Combination Therapy. <i>Hepatology</i> , <b>2021</b> , 74, 1971-1993	11.2	8
231	Reactor control system in bacterial co-culture based on fluorescent proteins using an Arduino-based home-made device. <i>Biotechnology Journal</i> , <b>2021</b> , 16, e2100169	5.6	0
230	Recent advances in metabolic engineering-integration of in silico design and experimental analysis of metabolic pathways. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 132, 429-436	3.3	1
229	mfapy: An open-source Python package for C-based metabolic flux analysis. <i>Metabolic Engineering Communications</i> , <b>2021</b> , 13, e00177	6.5	0
228	Flux controlling technology for central carbon metabolism for efficient microbial bio-production. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 64, 169-174	11.4	7
227	Transcription Factor ArcA is a Flux Sensor for the Oxygen Consumption Rate in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900353	5.6	3
226	Effects of mutations of GID protein-coding genes on malate production and enzyme expression profiles in <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 4971-4983	5.7	4
225	Novel allosteric inhibition of phosphoribulokinase identified by ensemble kinetic modeling of sp. PCC 6803 metabolism. <i>Metabolic Engineering Communications</i> , <b>2020</b> , 11, e00153	6.5	1

224	Data science-based modeling of the lysine fermentation process. <i>Journal of Bioscience and Bioengineering</i> , <b>2020</b> , 130, 409-415	3.3	5
223	Direct and quantitative analysis of altered metabolic flux distributions and cellular ATP production pathway in fumarate hydratase-diminished cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 13065	4.9	1
222	Assessment of Protein Content and Phosphorylation Level in sp. PCC 6803 under Various Growth Conditions Using Quantitative Phosphoproteomic Analysis. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
221	Comparison of metabolic profiles of yeasts based on the difference of the Crabtree positive and negative. <i>Journal of Bioscience and Bioengineering</i> , <b>2020</b> , 129, 52-58	3.3	9
220	Flux balance analysis of cyanobacteria reveals selective use of photosynthetic electron transport components under different spectral light conditions. <i>Photosynthesis Research</i> , <b>2020</b> , 143, 31-43	3.7	12
219	Prediction of Rate-Limiting Reactions for Growth-Associated Production Using a Constraint-Based Approach. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800431	5.6	0
218	Optogenetic switch for controlling the central metabolic flux of Escherichia coli. <i>Metabolic Engineering</i> , <b>2019</b> , 55, 68-75	9.7	20
217	C-Metabolic Flux Analysis Reveals Effect of Phenol on Central Carbon Metabolism in. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1010	5.7	8
216	Time-resolved analysis of short term metabolic adaptation at dark transition in Synechocystis sp. PCC 6803. <i>Journal of Bioscience and Bioengineering</i> , <b>2019</b> , 128, 424-428	3.3	4
215	Theophylline-inducible riboswitch accurately regulates protein expression at low level in Escherichia coli. <i>Biotechnology Letters</i> , <b>2019</b> , 41, 743-751	3	4
214	Light-inducible flux control of triosephosphate isomerase on glycolysis in Escherichia coli. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 3292-3300	4.9	7
213	High-yielding rice Takanari has superior photosynthetic response to a commercial rice Koshihikari under fluctuating light. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 5287-5297	7	20
212	Repression of mitochondrial metabolism for cytosolic pyruvate-derived chemical production in Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 177	6.4	3
211	Fragmentation of Dicarboxylic and Tricarboxylic Acids in the Krebs Cycle Using GC-EI-MS and GC-EI-MS/MS. <i>Mass Spectrometry</i> , <b>2019</b> , 8, A0073	1.7	4
210	Sugar phosphate analysis with baseline separation and soft ionization by gas chromatography-negative chemical ionization-mass spectrometry improves flux estimation of bidirectional reactions in cancer cells. <i>Metabolic Engineering</i> , <b>2019</b> , 51, 43-49	9.7	4
209	Effect of precise control of flux ratio between the glycolytic pathways on mevalonate production in Escherichia coli. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1080-1088	4.9	9
208	Transomics data-driven, ensemble kinetic modeling for system-level understanding and engineering of the cyanobacteria central metabolism. <i>Metabolic Engineering</i> , <b>2019</b> , 52, 273-283	9.7	20
207	Magnesium starvation improves production of malonyl-CoA-derived metabolites in Escherichia coli. <i>Metabolic Engineering</i> , <b>2019</b> , 52, 215-223	9.7	14

206	Targeted proteome analysis of microalgae under high-light conditions by optimized protein extraction of photosynthetic organisms. <i>Journal of Bioscience and Bioengineering</i> , <b>2019</b> , 127, 394-402	3.3	4
205	Application of adaptive laboratory evolution to overcome a flux limitation in an Escherichia coli production strain. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 1542-1551	4.9	17
204	Metabolic flux of the oxidative pentose phosphate pathway under low light conditions in Synechocystis sp. PCC 6803. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 126, 38-43	3.3	14
203	Metabolic engineering of mevalonate-producing Escherichia coli strains based on thermodynamic analysis. <i>Metabolic Engineering</i> , <b>2018</b> , 47, 1-9	9.7	15
202	Expression of Saccharomyces cerevisiae cDNAs to enhance the growth of non-ethanol-producing S. cerevisiae strains lacking pyruvate decarboxylases. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 126, 317-321	3.3	1
201	Integrated Analysis of the Transcriptome and Metabolome of Corynebacterium glutamicum during Penicillin-Induced Glutamic Acid Production. <i>Biotechnology Journal</i> , <b>2018</b> , 13, e1700612	5.6	10
200	Sclerotherapy for Rectal Varices by a Small-Bore Needle Puncture Through the Greater Sciatic Foramen. <i>CardioVascular and Interventional Radiology</i> , <b>2018</b> , 41, 317-322	2.7	5
199	A pyruvate carbon flux tugging strategy for increasing 2,3-butanediol production and reducing ethanol subgeneration in the yeast. <i>Biotechnology for Biofuels</i> , <b>2018</b> , 11, 180	7.8	16
198	Transcriptome analysis of the cyanobacterium Synechocystis sp. PCC 6803 and mechanisms of photoinhibition tolerance under extreme high light conditions. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 126, 596-602	3.3	15
197	Comparative analysis of fermentation and enzyme expression profiles among industrial Saccharomyces cerevisiae strains. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 7071-7081	5.7	3
196	Optimal C-labeling of glycerol carbon source for precise flux estimation in Escherichia coli. <i>Journal of Bioscience and Bioengineering</i> , <b>2018</b> , 125, 301-305	3.3	3
195	Mass Spectrometry-Based Method to Study Inhibitor-Induced Metabolic Redirection in the Central Metabolism of Cancer Cells. <i>Mass Spectrometry</i> , <b>2018</b> , 7, A0067	1.7	4
194	Transarterial Embolization for Life-Threatening Spontaneous Hemopneumothorax. <i>Interventional Radiology</i> , <b>2018</b> , 3, 84-87	0.1	
193	Comparative Targeted Proteomics of the Central Metabolism and Photosystems in SigE Mutant Strains of sp. PCC 6803. <i>Molecules</i> , <b>2018</b> , 23,	4.8	8
192	C-metabolic flux analysis of ethanol-assimilating Saccharomyces cerevisiae for S-adenosyl-L-methionine production. <i>Microbial Cell Factories</i> , <b>2018</b> , 17, 82	6.4	9
191	Characterization of oil-producing yeast Lipomyces starkeyi on glycerol carbon source based on metabolomics and C-labeling. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 8909-8920	5.7	7
190	Omics-Integrated Approach for Metabolic State Analysis of Microbial Processes <b>2017</b> , 213-236		
189	Control of Microbial Processes <b>2017</b> , 237-258		

188	Metabolic engineering of <i>Synechocystis</i> sp. PCC 6803 for enhanced ethanol production based on flux balance analysis. <i>Bioprocess and Biosystems Engineering</i> , <b>2017</b> , 40, 791-796	3.7	31
187	Metabolic impact of nutrient starvation in mevalonate-producing <i>Escherichia coli</i> . <i>Bioresource Technology</i> , <b>2017</b> , 245, 1634-1640	11	11
186	The RB-IL-6 axis controls self-renewal and endocrine therapy resistance by fine-tuning mitochondrial activity. <i>Oncogene</i> , <b>2017</b> , 36, 5145-5157	9.2	24
185	Heterologous expression of bacterial phosphoenol pyruvate carboxylase and Entner-Doudoroff pathway in <i>Saccharomyces cerevisiae</i> for improvement of isobutanol production. <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 124, 263-270	3.3	12
184	Prediction of Cross-resistance and Collateral Sensitivity by Gene Expression profiles and Genomic Mutations. <i>Scientific Reports</i> , <b>2017</b> , 7, 14009	4.9	21
183	Identification of alcohol stress tolerance genes of sp. PCC 6803 using adaptive laboratory evolution. <i>Biotechnology for Biofuels</i> , <b>2017</b> , 10, 307	7.8	29
182	Pulmonary Tumor Thrombotic Microangiopathy - Antemortem Diagnosis With Pulmonary Artery Wedge Blood Cell Sampling in a Recurrent Breast Cancer Patient. <i>Circulation Journal</i> , <b>2017</b> , 81, 1959-1960	2.9	6
181	Learning from quantitative data to understand central carbon metabolism. <i>Biotechnology Advances</i> , <b>2017</b> , 35, 971-980	17.8	18
180	Metabolic engineering of isopropyl alcohol-producing <i>Escherichia coli</i> strains with C-metabolic flux analysis. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 2782-2793	4.9	15
179	Metabolic Flux Analysis of the <i>Synechocystis</i> sp. PCC 6803 <i>brtABCD</i> Mutant Reveals a Mechanism for Metabolic Adaptation to Nitrogen-Limited Conditions. <i>Plant and Cell Physiology</i> , <b>2017</b> , 58, 537-545	4.9	14
178	C-metabolic flux analysis for mevalonate-producing strain of <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 177-182	3.3	35
177	Prediction of Hopeless Peptides Unlikely to be Selected for Targeted Proteome Analysis. <i>Mass Spectrometry</i> , <b>2017</b> , 6, A0056	1.7	6
176	Targeted proteome analysis of single-gene deletion strains of <i>Saccharomyces cerevisiae</i> lacking enzymes in the central carbon metabolism. <i>PLoS ONE</i> , <b>2017</b> , 12, e0172742	3.7	13
175	A rare case of long-term survival with idiopathic dilatation of the pulmonary artery. <i>International Journal of Cardiology</i> , <b>2016</b> , 223, 337-339	3.2	1
174	Enhancement of 1,5-diaminopentane production in a recombinant strain of <i>Corynebacterium glutamicum</i> by Tween 40 addition. <i>Journal of General and Applied Microbiology</i> , <b>2016</b> , 62, 42-5	1.5	12
173	GC-MS/MS survey of collision-induced dissociation of tert-butyldimethylsilyl-derivatized amino acids and its application to (13)C-metabolic flux analysis of <i>Escherichia coli</i> central metabolism. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 6133-40	4.4	10
172	Positive effects of proline addition on the central metabolism of wild-type and lactic acid-producing <i>Saccharomyces cerevisiae</i> strains. <i>Bioprocess and Biosystems Engineering</i> , <b>2016</b> , 39, 1711-6	2.7	1
171	Glutamic Acid Fermentation: Discovery of Glutamic Acid-Producing Microorganisms, Analysis of the Production Mechanism, Metabolic Engineering, and Industrial Production Process <b>2016</b> , 339-360		6

170	Metabolic Adaptation to Nutritional Stress in Human Colorectal Cancer. <i>Scientific Reports</i> , <b>2016</b> , 6, 38415-9	4.9	39
169	Recent advances in amino acid production by microbial cells. <i>Current Opinion in Biotechnology</i> , <b>2016</b> , 42, 133-146	11.4	75
168	Investigation of useful carbon tracers for C-metabolic flux analysis of by considering five experimentally determined flux distributions. <i>Metabolic Engineering Communications</i> , <b>2016</b> , 3, 187-195	6.5	12
167	Combinatorial deletions of glgC and phaCE enhance ethanol production in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Biotechnology</i> , <b>2016</b> , 239, 13-19	3.7	40
166	Metabolome analysis of <i>Saccharomyces cerevisiae</i> and optimization of culture medium for S-adenosyl-L-methionine production. <i>AMB Express</i> , <b>2016</b> , 6, 38	4.1	17
165	(13)C-metabolic flux analysis in S-adenosyl-L-methionine production by <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 532-8	3.3	26
164	Metabolic characterization of cultured mammalian cells by mass balance analysis, tracer labeling experiments and computer-aided simulations. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 725-31	3.3	9
163	Enhanced dipicolinic acid production during the stationary phase in <i>Bacillus subtilis</i> by blocking acetoin synthesis. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2015</b> , 79, 2073-80	2.1	9
162	SSDesign: Computational metabolic pathway design based on flux variability using elementary flux modes. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 759-68	4.9	9
161	Absolute quantitation of glycolytic intermediates reveals thermodynamic shifts in <i>Saccharomyces cerevisiae</i> strains lacking PFK1 or ZWF1 genes. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 280-6	3.3	22
160	Effect of malic enzyme on ethanol production by <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 119, 82-4	3.3	13
159	Phenotypic convergence in bacterial adaptive evolution to ethanol stress. <i>BMC Evolutionary Biology</i> , <b>2015</b> , 15, 180	3	20
158	In Silico Metabolic Pathway Design and 13C-Based Metabolic Flux Analysis for Bio-Production. <i>Kagaku To Seibutsu</i> , <b>2015</b> , 53, 455-461	0	
157	Metabolomic analysis of acid stress response in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 396-404	3.3	29
156	Nano-scale liquid chromatography coupled to tandem mass spectrometry using the multiple reaction monitoring mode based quantitative platform for analyzing multiple enzymes associated with central metabolic pathways of <i>Saccharomyces cerevisiae</i> using ultra fast mass spectrometry. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 119, 117-20	3.3	12
155	13C-based metabolic flux analysis of <i>Saccharomyces cerevisiae</i> with a reduced Crabtree effect. <i>Journal of Bioscience and Bioengineering</i> , <b>2015</b> , 120, 140-4	3.3	16
154	Construction of a Genome-Scale Metabolic Model of <i>Arthrospira platensis</i> NIES-39 and Metabolic Design for Cyanobacterial Bioproduction. <i>PLoS ONE</i> , <b>2015</b> , 10, e0144430	3.7	20
153	13 C-metabolic flux analysis in heterologous cellulase production by <i>Bacillus subtilis</i> genome-reduced strain. <i>Journal of Biotechnology</i> , <b>2014</b> , 179, 42-9	3.7	30

152	Integrated metabolic flux and omics analysis of <i>Synechocystis</i> sp. PCC 6803 under mixotrophic and photoheterotrophic conditions. <i>Plant and Cell Physiology</i> , <b>2014</b> , 55, 1605-12	4.9	60
151	A vector library for silencing central carbon metabolism genes with antisense RNAs in <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 564-73	4.8	28
150	Glutamic Acid <b>2014</b> , 473-495		3
149	Increased 3-hydroxypropionic acid production from glycerol, by modification of central metabolism in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 64	6.4	53
148	Reliable Metabolic Flux Estimation in <i>Escherichia coli</i> Central Carbon Metabolism Using Intracellular Free Amino Acids. <i>Metabolites</i> , <b>2014</b> , 4, 408-20	5.6	14
147	Enhanced acetic acid and succinic acid production under microaerobic conditions by <i>Corynebacterium glutamicum</i> harboring <i>Escherichia coli</i> transhydrogenase gene <i>pntAB</i> . <i>Journal of General and Applied Microbiology</i> , <b>2014</b> , 60, 112-8	1.5	25
146	Potential of a <i>Saccharomyces cerevisiae</i> recombinant strain lacking ethanol and glycerol biosynthesis pathways in efficient anaerobic bioproduction. <i>Bioengineered</i> , <b>2014</b> , 5, 123-8	5.7	4
145	Development of an automated culture system for laboratory evolution. <i>Journal of the Association for Laboratory Automation</i> , <b>2014</b> , 19, 478-82		25
144	Metabolic engineering of <i>Saccharomyces cerevisiae</i> to improve succinic acid production based on metabolic profiling. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2014</b> , 78, 151-9	2.1	40
143	FastPros: screening of reaction knockout strategies for metabolic engineering. <i>Bioinformatics</i> , <b>2014</b> , 30, 981-7	7.2	32
142	OpenMebius: an open source software for isotopically nonstationary <sup>13</sup> C-based metabolic flux analysis. <i>BioMed Research International</i> , <b>2014</b> , 2014, 627014	3	72
141	Flux analysis and metabolomics for systematic metabolic engineering of microorganisms. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 818-26	17.8	84
140	Utilization of <i>Saccharomyces cerevisiae</i> recombinant strain incapable of both ethanol and glycerol biosynthesis for anaerobic bioproduction. <i>Applied Microbiology and Biotechnology</i> , <b>2013</b> , 97, 4811-9	5.7	24
139	Genome-wide identification of the targets for genetic manipulation to improve L-lactate production by <i>Saccharomyces cerevisiae</i> by using a single-gene deletion strain collection. <i>Journal of Biotechnology</i> , <b>2013</b> , 168, 185-93	3.7	3
138	ArtPathDesign: rational heterologous pathway design system for the production of nonnative metabolites. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 116, 524-7	3.3	5
137	Integrated transcriptomic and metabolomic analysis of the central metabolism of <i>Synechocystis</i> sp. PCC 6803 under different trophic conditions. <i>Biotechnology Journal</i> , <b>2013</b> , 8, 571-80	5.6	44
136	Systems metabolic engineering: the creation of microbial cell factories by rational metabolic design and evolution. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2013</b> , 131, 1-23	1.7	14
135	In silico screening of triple reaction knockout <i>Escherichia coli</i> strains for overproduction of useful metabolites. <i>Journal of Bioscience and Bioengineering</i> , <b>2013</b> , 115, 221-8	3.3	20

134	Systems metabolic engineering for the production of bio-nylon precursor. <i>Biotechnology Journal</i> , <b>2013</b> , 8, 513-4	5.6	7
133	Development of a physical model-based algorithm for the detection of single-nucleotide substitutions by using tiling microarrays. <i>PLoS ONE</i> , <b>2013</b> , 8, e54571	3.7	5
132	Stable disruption of ethanol production by deletion of the genes encoding alcohol dehydrogenase isozymes in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 192-5	3.3	39
131	Understanding the mechanism of heat stress tolerance caused by high trehalose accumulation in <i>Saccharomyces cerevisiae</i> using DNA microarray. <i>Journal of Bioscience and Bioengineering</i> , <b>2012</b> , 113, 526-8	3.3	18
130	An in silico platform for the design of heterologous pathways in nonnative metabolite production. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 93	3.6	19
129	Investigating the effects of perturbations to <i>pgi</i> and <i>eno</i> gene expression on central carbon metabolism in <i>Escherichia coli</i> using (13)C metabolic flux analysis. <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 87	6.4	40
128	Molecular mechanisms and metabolic engineering of glutamate overproduction in <i>Corynebacterium glutamicum</i> . <i>Sub-Cellular Biochemistry</i> , <b>2012</b> , 64, 261-81	5.5	15
127	Design of Superior Cell Factories Based on Systems Wide Omics Analysis <b>2012</b> , 57-81		3
126	Improving protein secretion of a transglutaminase-secreting <i>Corynebacterium glutamicum</i> recombinant strain on the basis of 13C metabolic flux analysis. <i>Journal of Bioscience and Bioengineering</i> , <b>2011</b> , 112, 595-601	3.3	20
125	Evaluating (13)C enrichment data of free amino acids for precise metabolic flux analysis. <i>Biotechnology Journal</i> , <b>2011</b> , 6, 1377-87	5.6	23
124	Investigation of phosphorylation status of OdhI protein during penicillin- and Tween 40-triggered glutamate overproduction by <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 143-51	5.7	31
123	Reconstruction and verification of a genome-scale metabolic model for <i>Synechocystis</i> sp. PCC6803. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 92, 347-58	5.7	53
122	Engineering strategy of yeast metabolism for higher alcohol production. <i>Microbial Cell Factories</i> , <b>2011</b> , 10, 70	6.4	38
121	Comprehensive phenotypic analysis of single-gene deletion and overexpression strains of <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>2011</b> , 28, 349-61	3.4	90
120	Requirement of de novo synthesis of the OdhI protein in penicillin-induced glutamate production by <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 86, 911-20	5.7	56
119	<i>Saccharomyces cerevisiae</i> and DNA microarray analyses: what did we learn from it for a better understanding and exploitation of yeast biotechnology?. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 87, 391-400	5.7	22
118	Transcriptome analysis of parallel-evolved <i>Escherichia coli</i> strains under ethanol stress. <i>BMC Genomics</i> , <b>2010</b> , 11, 579	4.5	104
117	Differential importance of trehalose accumulation in <i>Saccharomyces cerevisiae</i> in response to various environmental stresses. <i>Journal of Bioscience and Bioengineering</i> , <b>2010</b> , 109, 262-6	3.3	80

116	Genome-wide expression analysis of <i>Saccharomyces pastorianus</i> orthologous genes using oligonucleotide microarrays. <i>Journal of Bioscience and Bioengineering</i> , <b>2010</b> , 110, 602-7	3.3	27
115	Model-based analysis of non-specific binding for background correction of high-density oligonucleotide microarrays. <i>Bioinformatics</i> , <b>2009</b> , 25, 36-41	7.2	16
114	A model-based analysis method for detection of single-base substitution using resequencing microarrays. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 108, S160	3.3	
113	Flux balance analysis of <i>Corynebacterium glutamicum</i> using a genome-scale metabolic model. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 108, S166	3.3	
112	Analysis of adaptation to high ethanol concentration in <i>Saccharomyces cerevisiae</i> using DNA microarray. <i>Bioprocess and Biosystems Engineering</i> , <b>2009</b> , 32, 681-8	3.7	31
111	Effect of <i>odhA</i> overexpression and <i>odhA</i> antisense RNA expression on Tween-40-triggered glutamate production by <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 81, 1097-106	5.7	57
110	Investigating the effectiveness of DNA microarray analysis for identifying the genes involved in l-lactate production by <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2009</b> , 84, 1149-59	5.7	16
109	Effect of trehalose accumulation on response to saline stress in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , <b>2009</b> , 26, 17-30	3.4	53
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