

Sang Yup Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7467778/publications.pdf>

Version: 2024-02-01

817
papers

62,319
citations

735

120
h-index

1980

206
g-index

886
all docs

886
docs citations

886
times ranked

41229
citing authors

#	ARTICLE	IF	CITATIONS
1	Intracellular biosensor-based dynamic regulation to manipulate gene expression at the spatiotemporal level. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 646-663.	9.0	6
2	Microbial food: microorganisms repurposed for our food. <i>Microbial Biotechnology</i> , 2022, 15, 18-25.	4.2	22
3	Applications of artificial intelligence to enzyme and pathway design for metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2022, 73, 101-107.	6.6	49
4	Biocompatible Materials Enabled by Biobased Production of Pyomelanin Isoforms Using an Engineered <i>Yarrowia lipolytica</i> . <i>Advanced Functional Materials</i> , 2022, 32, 2109366.	14.9	5
5	Biosynthesis and applications of iron oxide nanocomposites synthesized by recombinant <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1127-1137.	3.6	5
6	Secretory production of spider silk proteins in metabolically engineered <i>Corynebacterium glutamicum</i> for spinning into tough fibers. <i>Metabolic Engineering</i> , 2022, 70, 102-114.	7.0	26
7	An operator-based expression toolkit for <i>Bacillus subtilis</i> enables fine-tuning of gene expression and biosynthetic pathway regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119980119.	7.1	29
8	Bacterial conversion of CO ₂ to organic compounds. <i>Journal of CO₂ Utilization</i> , 2022, 58, 101929.	6.8	15
9	Optogenetic tools for microbial synthetic biology. <i>Biotechnology Advances</i> , 2022, , 107953.	11.7	9
10	Production of phenylpropanoids and flavonolignans from glycerol by metabolically engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2022, 119, 946-962.	3.3	7
11	Machine learning-aided engineering of hydrolases for PET depolymerization. <i>Nature</i> , 2022, 604, 662-667.	27.8	396
12	Production of natural colorants by metabolically engineered microorganisms. <i>Trends in Chemistry</i> , 2022, 4, 608-626.	8.5	8
13	Light-Driven Ammonia Production by <i>Azotobacter vinelandii</i> Cultured in Medium Containing Colloidal Quantum Dots. <i>Journal of the American Chemical Society</i> , 2022, 144, 10798-10808.	13.7	15
14	A deep learning approach to evaluate the feasibility of enzymatic reactions generated by retrobiosynthesis. <i>Biotechnology Journal</i> , 2021, 16, e2000605.	3.5	16
15	Microbial production of multiple short-chain primary amines via retrobiosynthesis. <i>Nature Communications</i> , 2021, 12, 173.	12.8	17
16	Adapting educational experiences for the chemists of tomorrow. <i>Nature Reviews Chemistry</i> , 2021, 5, 141-142.	30.2	8
17	Machine learning applications in genome-scale metabolic modeling. <i>Current Opinion in Systems Biology</i> , 2021, 25, 42-49.	2.6	27
18	Bio-synthesis of food additives and colorants-a growing trend in future food. <i>Biotechnology Advances</i> , 2021, 47, 107694.	11.7	47

#	ARTICLE	IF	CITATIONS
19	High-Level Production of the Natural Blue Pigment Indigoidine from Metabolically Engineered <i>Corynebacterium glutamicum</i> for Sustainable Fabric Dyes. ACS Sustainable Chemistry and Engineering, 2021, 9, 6613-6622.	6.7	29
20	Distribution of μ -Poly- L-Lysine Synthetases in Coryneform Bacteria Isolated from Cheese and Human Skin. Applied and Environmental Microbiology, 2021, 87, .	3.1	9
21	Production of Carminic Acid by Metabolically Engineered <i>Escherichia coli</i> . Journal of the American Chemical Society, 2021, 143, 5364-5377.	13.7	36
22	Synthetic Formatotrophs for One-Carbon Biorefinery. Advanced Science, 2021, 8, 2100199.	11.2	17
23	Production of Diversified Polyketides by Metabolic Engineering. Biochemistry, 2021, 60, 3424-3426.	2.5	2
24	Production of Rainbow Colorants by Metabolically Engineered <i>Escherichia coli</i> . Advanced Science, 2021, 8, e2100743.	11.2	28
25	Modular biocatalysis for polyamines. Nature Catalysis, 2021, 4, 449-450.	34.4	1
26	Three-dimensional label-free visualization and quantification of polyhydroxyalkanoates in individual bacterial cell in its native state. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	16
27	Drugs repurposed for COVID-19 by virtual screening of 6,218 drugs and cell-based assay. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	121
28	<i>Escherichia coli</i> as a platform microbial host for systems metabolic engineering. Essays in Biochemistry, 2021, 65, 225-246.	4.7	22
29	In Situ Biosynthesis of a Metal Nanoparticle Encapsulated in Alginate Gel for Imageable Drug-Delivery System. ACS Applied Materials & Interfaces, 2021, 13, 36697-36708.	8.0	14
30	Data-Driven Approach to Decipher the Role of Triglyceride Composition on the Thermomechanical Properties of Thermosetting Polymers Using Vegetable and Microbial Oils. ACS Applied Polymer Materials, 2021, 3, 4485-4494.	4.4	4
31	Physiological effects, biosynthesis, and derivatization of key human milk tetrasaccharides, lacto-N-tetraose, and lacto-N-neotetraose. Critical Reviews in Biotechnology, 2021, , 1-19.	9.0	19
32	Characterization and engineering of Streptomyces griseofuscus DSM 40191 as a potential host for heterologous expression of biosynthetic gene clusters. Scientific Reports, 2021, 11, 18301.	3.3	11
33	Sorting for secreted molecule production using a biosensor-in-microdroplet approach. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
34	A versatile genetic engineering toolkit for E. coli based on CRISPR-prime editing. Nature Communications, 2021, 12, 5206.	12.8	49
35	Genome Engineering of Yarrowia lipolytica with the PiggyBac Transposon System. Methods in Molecular Biology, 2021, 2307, 1-24.	0.9	2
36	DeepTFactor: A deep learning-based tool for the prediction of transcription factors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	45

#	ARTICLE	IF	CITATIONS
37	<i>Clostridium acetobutylicum</i> atpG-Knockdown Mutants Increase Extracellular pH in Batch Cultures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 754250.	4.1	2
38	Efficient anaerobic consumption of D-xylose by <i>E. coli</i> BL21(DE3) via xylR adaptive mutation. <i>BMC Microbiology</i> , 2021, 21, 332.	3.3	3
39	Protocols for Rec^{ET}-based markerless gene knockout and integration to express heterologous biosynthetic gene clusters in <i>Pseudomonas putida</i> . <i>Microbial Biotechnology</i> , 2020, 13, 199-209.	4.2	24
40	Metabolic engineering for the synthesis of polyesters: A 100-year journey from polyhydroxyalkanoates to non-natural microbial polyesters. <i>Metabolic Engineering</i> , 2020, 58, 47-81.	7.0	138
41	Metabolic engineering for the production of dicarboxylic acids and diamines. <i>Metabolic Engineering</i> , 2020, 58, 2-16.	7.0	104
42	Machine learning applications in systems metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2020, 64, 1-9.	6.6	131
43	Producing Biochemicals in <i>Yarrowia lipolytica</i> from Xylose through a Strain Mating Approach. <i>Biotechnology Journal</i> , 2020, 15, e1900304.	3.5	28
44	Development of Metabolically Engineered <i>Corynebacterium glutamicum</i> for Enhanced Production of Cadaverine and Its Use for the Synthesis of Bio-Polyamide 510. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 129-138.	6.7	23
45	Engineering 4-coumaroyl-CoA derived polyketide production in <i>Yarrowia lipolytica</i> through a β -oxidation mediated strategy. <i>Metabolic Engineering</i> , 2020, 57, 174-181.	7.0	115
46	Current status of pan-genome analysis for pathogenic bacteria. <i>Current Opinion in Biotechnology</i> , 2020, 63, 54-62.	6.6	54
47	Metabolic Engineering of <i>Escherichia coli</i> for Natural Product Biosynthesis. <i>Trends in Biotechnology</i> , 2020, 38, 745-765.	9.3	219
48	Microdroplet-Assisted Screening of Biomolecule Production for Metabolic Engineering Applications. <i>Trends in Biotechnology</i> , 2020, 38, 701-714.	9.3	45
49	Direct production of fatty alcohols from glucose using engineered strains of <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering Communications</i> , 2020, 10, e00105.	3.6	37
50	<i>Escherichia coli</i> is engineered to grow on CO ₂ and formic acid. <i>Nature Microbiology</i> , 2020, 5, 1459-1463.	13.3	81
51	Heat-responsive and time-resolved transcriptome and metabolome analyses of <i>Escherichia coli</i> uncover thermo-tolerant mechanisms. <i>Scientific Reports</i> , 2020, 10, 17715.	3.3	22
52	Metabolic engineering of <i>Escherichia coli</i> for the production of benzoic acid from glucose. <i>Metabolic Engineering</i> , 2020, 62, 298-311.	7.0	21
53	Tunable Gene Expression System Independent of Downstream Coding Sequence. <i>ACS Synthetic Biology</i> , 2020, 9, 2998-3007.	3.8	9
54	Biosynthesis of inorganic nanomaterials using microbial cells and bacteriophages. <i>Nature Reviews Chemistry</i> , 2020, 4, 638-656.	30.2	96

#	ARTICLE	IF	CITATIONS
55	Automating Cloning by Natural Transformation. ACS Synthetic Biology, 2020, 9, 3228-3235.	3.8	11
56	Glutaric acid production by systems metabolic engineering of an <i>Corynebacterium glutamicum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30328-30334.	7.1	56
57	Bacterial Polyesters: Microbial Polyhydroxyalkanoates and Nonnatural Polyesters (Adv. Mater.)	21.6	2
58	Design, Evolution, and Characterization of a Xylose Biosensor in <i>Escherichia coli</i> Using the XylR/ <i>xytA</i> System with an Expanded Operating Range. ACS Synthetic Biology, 2020, 9, 2714-2722.	3.8	10
59	Editorial overview: Chemical biotechnology. Current Opinion in Biotechnology, 2020, 65, vi-vii.	6.6	0
60	Tools and strategies of systems metabolic engineering for the development of microbial cell factories for chemical production. Chemical Society Reviews, 2020, 49, 4615-4636.	38.1	246
61	Valorizing a hydrothermal liquefaction aqueous phase through co-production of chemicals and lipids using the oleaginous yeast <i>Yarrowia lipolytica</i> . Bioresource Technology, 2020, 313, 123639.	9.6	30
62	Synthesis, Characterization, and Application of Fully Biobased and Biodegradable Nylon-4,4 and -5,4. ACS Sustainable Chemistry and Engineering, 2020, 8, 5604-5614.	6.7	33
63	Microbial production of fatty acids and derivative chemicals. Current Opinion in Biotechnology, 2020, 65, 129-141.	6.6	34
64	High-level production of 3-hydroxypropionic acid from glycerol as a sole carbon source using metabolically engineered <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2020, 117, 2139-2152.	3.3	35
65	A Novel Biosynthetic Pathway for the Production of Acrylic Acid through β -Alanine Route in <i>Escherichia coli</i> . ACS Synthetic Biology, 2020, 9, 1150-1159.	3.8	23
66	Systematic and Comparative Evaluation of Software Programs for Template-Based Modeling of Protein Structures. Biotechnology Journal, 2020, 15, e1900343.	3.5	5
67	Formation and functionalization of membraneless compartments in <i>Escherichia coli</i> . Nature Chemical Biology, 2020, 16, 1143-1148.	8.0	95
68	CRISPR-Cas9, CRISPRi and CRISPR-BEST-mediated genetic manipulation in streptomycetes. Nature Protocols, 2020, 15, 2470-2502.	12.0	50
69	Progress in the metabolic engineering of bio-based lactams and their α -amino acids precursors. Biotechnology Advances, 2020, 43, 107587.	11.7	17
70	Enhanced production of cellulose in <i>Komagataeibacter xylinus</i> by preventing insertion of IS element into cellulose synthesis gene. Biochemical Engineering Journal, 2020, 156, 107527.	3.6	22
71	Short-Term Adaptation Modulates Anaerobic Metabolic Flux to Succinate by Activating ExuT, a Novel D-Glucose Transporter in <i>Escherichia coli</i> . Frontiers in Microbiology, 2020, 11, 27.	3.5	5
72	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314

#	ARTICLE	IF	CITATIONS
73	Programmable polyketide biosynthesis platform for production of aromatic compounds in yeast. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 11-18.	3.7	13
74	Improving Spinach2-and Broccoli-based biosensors for single and double analytes. <i>Biotechnology Notes</i> , 2020, 1, 2-8.	1.2	4
75	Non-conventional hosts for the production of fuels and chemicals. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 15-22.	6.1	22
76	Microbial Polyhydroxyalkanoates and Nonnatural Polyesters. <i>Advanced Materials</i> , 2020, 32, e1907138.	21.0	65
77	Chang approximation for the osmotic pressure of dilute to concentrated solutions. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 583-587.	2.7	0
78	CRISPR-Cas9-mediated pinpoint microbial genome editing aided by target-mismatched sgRNAs. <i>Genome Research</i> , 2020, 30, 768-775.	5.5	20
79	Enhanced succinic acid production by <i>Mannheimia</i> employing optimal malate dehydrogenase. <i>Nature Communications</i> , 2020, 11, 1970.	12.8	79
80	Biosynthesis and characterization of poly(lactate-co-glycolate-co-4-hydroxybutyrate). <i>Biotechnology and Bioengineering</i> , 2020, 117, 2187-2197.	3.3	8
81	Metabolic engineering strategies toward production of biofuels. <i>Current Opinion in Chemical Biology</i> , 2020, 59, 1-14.	6.1	59
82	Modeling regulatory networks using machine learning for systems metabolic engineering. <i>Current Opinion in Biotechnology</i> , 2020, 65, 163-170.	6.6	18
83	Microbial production of 4-amino-1-butanol, a four-carbon amino alcohol. <i>Biotechnology and Bioengineering</i> , 2020, 117, 2771-2780.	3.3	7
84	Engineering Heterologous Hosts for the Enhanced Production of Non-ribosomal Peptides. <i>Biotechnology and Bioengineering</i> , 2020, 25, 795-809.	2.6	5
85	Compartmentalized microbes and co-cultures in hydrogels for on-demand bioproduction and preservation. <i>Nature Communications</i> , 2020, 11, 563.	12.8	134
86	Enhanced Production of Bacterial Cellulose in <i>Komagataeibacter xylinus</i> Via Tuning of Biosynthesis Genes with Synthetic RBS. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1430-1435.	2.1	17
87	Single-Base Genome Editing in <i>Corynebacterium glutamicum</i> with the Help of Negative Selection by Target-Mismatched CRISPR/Cpf1. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 1583-1591.	2.1	13
88	Cell Surface Display of Poly(3-hydroxybutyrate) Depolymerase and its Application. <i>Journal of Microbiology and Biotechnology</i> , 2020, 30, 244-247.	2.1	0
89	Synthetic Biology for Natural Compounds. <i>Biochemistry</i> , 2019, 58, 1454-1456.	2.5	17
90	Are We There Yet? How and When Specific Biotechnologies Will Improve Human Health. <i>Biotechnology Journal</i> , 2019, 14, e1800195.	3.5	7

#	ARTICLE	IF	CITATIONS
91	Strategies for directed and adapted evolution as part of microbial strain engineering. Journal of Chemical Technology and Biotechnology, 2019, 94, 366-376.	3.2	18
92	Metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of glutaric acid, a C5 dicarboxylic acid platform chemical. Metabolic Engineering, 2019, 51, 99-109.	7.0	50
93	Genome-scale Metabolic Reconstruction of Actinomycetes for Antibiotics Production. Biotechnology Journal, 2019, 14, e1800377.	3.5	22
94	Genomic and metabolic analysis of <i>Komagataeibacter xylinus</i> DSM 2325 producing bacterial cellulose nanofiber. Biotechnology and Bioengineering, 2019, 116, 3372-3381.	3.3	46
95	Highly efficient DSB-free base editing for streptomycetes with CRISPR-BEST. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20366-20375.	7.1	119
96	<i>Yarrowia lipolytica</i> : more than an oleaginous workhorse. Applied Microbiology and Biotechnology, 2019, 103, 9251-9262.	3.6	80
97	Metabolic Engineering of <i>Escherichia coli</i> for the Production of Hyaluronic Acid From Glucose and Galactose. Frontiers in Bioengineering and Biotechnology, 2019, 7, 351.	4.1	37
98	Microbial production of 2,3-butanediol for industrial applications. Journal of Industrial Microbiology and Biotechnology, 2019, 46, 1583-1601.	3.0	107
99	A safe and sustainable bacterial cellulose nanofiber separator for lithium rechargeable batteries. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19288-19293.	7.1	57
100	Engineering Clostridial Aldehyde/Alcohol Dehydrogenase for Selective Butanol Production. MBio, 2019, 10, .	4.1	18
101	Systems Metabolic Engineering Strategies: Integrating Systems and Synthetic Biology with Metabolic Engineering. Trends in Biotechnology, 2019, 37, 817-837.	9.3	345
102	Validating genome-wide CRISPR-Cas9 function improves screening in the oleaginous yeast <i>Yarrowia lipolytica</i> . Metabolic Engineering, 2019, 55, 102-110.	7.0	70
103	Engineering of an oleaginous bacterium for the production of fatty acids and fuels. Nature Chemical Biology, 2019, 15, 721-729.	8.0	76
104	Deep learning enables high-quality and high-throughput prediction of enzyme commission numbers. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13996-14001.	7.1	151
105	Broad-Spectrum Gene Repression Using Scaffold Engineering of Synthetic sRNAs. ACS Synthetic Biology, 2019, 8, 1452-1461.	3.8	20
106	Biocatalytic synthesis of polylactate and its copolymers by engineered microorganisms. Methods in Enzymology, 2019, 627, 125-162.	1.0	13
107	Shape-controlled assemblies of graphitic carbon nitride polymer for efficient sterilization therapies of water microbial contamination via 2D g-C ₃ N ₄ under visible light illumination. Materials Science and Engineering C, 2019, 104, 109846.	7.3	20
108	Current status and applications of genome-scale metabolic models. Genome Biology, 2019, 20, 121.	8.8	463

#	ARTICLE	IF	CITATIONS
109	Microbial production of methyl anthranilate, a grape flavor compound. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10749-10756.	7.1	81
110	antiSMASH 5.0: updates to the secondary metabolite genome mining pipeline. Nucleic Acids Research, 2019, 47, W81-W87.	14.5	2,410
111	Expanded synthetic small regulatory RNA expression platforms for rapid and multiplex gene expression knockdown. Metabolic Engineering, 2019, 54, 180-190.	7.0	37
112	BMC Biomedical Engineering: a home for all biomedical engineering research. BMC Biomedical Engineering, 2019, 1, 1.	2.6	8
113	Synthetic biology and metabolic engineering of actinomycetes for natural product discovery. Biotechnology Advances, 2019, 37, 107366.	11.7	109
114	Metabolic engineering of microorganisms for production of aromatic compounds. Microbial Cell Factories, 2019, 18, 41.	4.0	150
115	Reconstruction of context-specific genome-scale metabolic models using multiomics data to study metabolic rewiring. Current Opinion in Systems Biology, 2019, 15, 1-11.	2.6	36
116	Advances in CRISPR-Cas systems for RNA targeting, tracking and editing. Biotechnology Advances, 2019, 37, 708-729.	11.7	95
117	The urgent need for microbiology literacy in society. Environmental Microbiology, 2019, 21, 1513-1528.	3.8	99
118	Systems Metabolic Engineering Strategies for Non-Natural Microbial Polyester Production. Biotechnology Journal, 2019, 14, 1800426.	3.5	25
119	Rational Protein Engineering of Thermo-Stable PETase from <i>Ideonella sakaiensis</i> for Highly Efficient PET Degradation. ACS Catalysis, 2019, 9, 3519-3526.	11.2	307
120	Metabolic engineering of microbial cell factories for production of nutraceuticals. Microbial Cell Factories, 2019, 18, 46.	4.0	91
121	Systems Metabolic Engineering Meets Machine Learning: A New Era for Data-Driven Metabolic Engineering. Biotechnology Journal, 2019, 14, e1800416.	3.5	45
122	Reply to "Conformational fitting of a flexible oligomeric substrate does not explain the enzymatic PET degradation". Nature Communications, 2019, 10, 5582.	12.8	9
123	Recent advancements in fungal-derived fuel and chemical production and commercialization. Current Opinion in Biotechnology, 2019, 57, 1-9.	6.6	39
124	CRISPR/Cas-based genome engineering in natural product discovery. Natural Product Reports, 2019, 36, 1262-1280.	10.3	88
125	The antiSMASH database version 2: a comprehensive resource on secondary metabolite biosynthetic gene clusters. Nucleic Acids Research, 2019, 47, D625-D630.	14.5	150
126	Separation and purification of three, four, and five carbon diamines from fermentation broth. Chemical Engineering Science, 2019, 196, 324-332.	3.8	14

#	ARTICLE	IF	CITATIONS
127	Microbial production of butyl butyrate, a flavor and fragrance compound. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 2079-2086.	3.6	16
128	A comprehensive metabolic map for production of bio-based chemicals. <i>Nature Catalysis</i> , 2019, 2, 18-33.	34.4	394
129	Expanding the Chemical Palette of Industrial Microbes: Metabolic Engineering for Type III PKS-Derived Polyketides. <i>Biotechnology Journal</i> , 2019, 14, e1700463.	3.5	34
130	Organic Acids: Succinic and Malic Acids. , 2019, , 172-187.		9
131	Filling the Gaps in the Kirromycin Biosynthesis: Deciphering the Role of Genes Involved in Ethylmalonyl-CoA Supply and Tailoring Reactions. <i>Scientific Reports</i> , 2018, 8, 3230.	3.3	17
132	Recent Trends in Nanomaterials-Based Colorimetric Detection of Pathogenic Bacteria and Viruses. <i>Small Methods</i> , 2018, 2, 1700351.	8.6	114
133	Developing a <i>piggyBac</i> Transposon System and Compatible Selection Markers for Insertional Mutagenesis and Genome Engineering in <i>Yarrowia lipolytica</i> . <i>Biotechnology Journal</i> , 2018, 13, e1800022.	3.5	62
134	Deep learning improves prediction of drug-drug and drug-food interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4304-E4311.	7.1	325
135	Genome Variations of Evolved <i>Escherichia coli</i> ET8 With a Rhodopsin-Based Phototrophic Metabolism. <i>Biotechnology Journal</i> , 2018, 13, e1700497.	3.5	2
136	Rewiring <i>Yarrowia lipolytica</i> toward triacetic acid lactone for materials generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2096-2101.	7.1	144
137	Structural insight into molecular mechanism of poly(ethylene terephthalate) degradation. <i>Nature Communications</i> , 2018, 9, 382.	12.8	449
138	Membrane engineering via <i>trans</i> -unsaturated fatty acids production improves succinic acid production in <i>Mannheimia succiniciproducens</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 555-566.	3.0	25
139	Expanding beyond canonical metabolism: Interfacing alternative elements, synthetic biology, and metabolic engineering. <i>Synthetic and Systems Biotechnology</i> , 2018, 3, 20-33.	3.7	12
140	Metabolic engineering of <i>Escherichia coli</i> for the production of indirubin from glucose. <i>Journal of Biotechnology</i> , 2018, 267, 19-28.	3.8	38
141	Engineering tunable biosensors for monitoring putrescine in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2018, 115, 1014-1027.	3.3	33
142	Characterisation of the antibacterial properties of the recombinant phage endolysins AP50-31 and LysB4 as potent bactericidal agents against <i>Bacillus anthracis</i> . <i>Scientific Reports</i> , 2018, 8, 18.	3.3	53
143	One-step fermentative production of aromatic polyesters from glucose by metabolically engineered <i>Escherichia coli</i> strains. <i>Nature Communications</i> , 2018, 9, 79.	12.8	84
144	Engineering and application of synthetic <i>nar</i> promoter for fine-tuning the expression of metabolic pathway genes in <i>Escherichia coli</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 103.	6.2	45

#	ARTICLE	IF	CITATIONS
145	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.	1.9	10
146	A comparative analysis of single cell and droplet-based FACS for improving production phenotypes: Riboflavin overproduction in <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering</i> , 2018, 47, 346-356.	7.0	66
147	The power of synthetic biology for bioproduction, remediation and pollution control. <i>EMBO Reports</i> , 2018, 19, .	4.5	83
148	Occurrence, evolution, and functions of DNA phosphorothioate epigenetics in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2988-E2996.	7.1	72
149	Surrogate strains of human pathogens for field release. <i>Bioengineered</i> , 2018, 9, 17-24.	3.2	1
150	Toward Systems Metabolic Engineering of Streptomycetes for Secondary Metabolites Production. <i>Biotechnology Journal</i> , 2018, 13, 1700465.	3.5	32
151	CRISPR-Cas9 Toolkit for Actinomycete Genome Editing. <i>Methods in Molecular Biology</i> , 2018, 1671, 163-184.	0.9	24
152	Synthetic biology for microbial heavy metal biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1191-1203.	3.7	82
153	Metabolic Engineering of Microorganisms for the Production of Natural Compounds. <i>Advanced Biology</i> , 2018, 2, 1700190.	3.0	83
154	Navigating genetic diversity by painting the bacteria red. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10824-10826.	7.1	0
155	Assimilation of formic acid and CO ₂ by engineered <i>Escherichia coli</i> equipped with reconstructed one-carbon assimilation pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9271-E9279.	7.1	97
156	Revisiting Statistical Design and Analysis in Scientific Research. <i>Small</i> , 2018, 14, e1802604.	10.0	4
157	Production of γ -linolenic acid in <i>Yarrowia lipolytica</i> using low-temperature fermentation. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8809-8816.	3.6	52
158	In Vivo Synthesis of Nanocomposites Using the Recombinant <i>Escherichia coli</i> . <i>Small</i> , 2018, 14, e1803133.	10.0	22
159	Repurposing type III polyketide synthase as a malonyl-CoA biosensor for metabolic engineering in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9835-9844.	7.1	107
160	Recombinant <i>Escherichia coli</i> as a biofactory for various single- and multi-element nanomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5944-5949.	7.1	103
161	Production of ethylene glycol from xylose by metabolically engineered <i>Escherichia coli</i> . <i>AIChE Journal</i> , 2018, 64, 4193-4200.	3.6	38
162	Evolution of the Metabolic Engineering Community. <i>Metabolic Engineering</i> , 2018, 48, A1-A2.	7.0	2

#	ARTICLE	IF	CITATIONS
163	Metabolic engineering in the host <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering</i> , 2018, 50, 192-208.	7.0	157
164	Metabolic engineering of <i>Clostridium acetobutylicum</i> for the production of butyl butyrate. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 8319-8327.	3.6	31
165	Protective Effects of Protocatechuic Acid on Seizure-Induced Neuronal Death. <i>International Journal of Molecular Sciences</i> , 2018, 19, 187.	4.1	21
166	Metabolic engineering of <i>Escherichia coli</i> for the enhanced production of L-tyrosine. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2554-2564.	3.3	59
167	Markerless gene knockout and integration to express heterologous biosynthetic gene clusters in <i>Pseudomonas putida</i> . <i>Metabolic Engineering</i> , 2018, 47, 463-474.	7.0	53
168	Engineering <i>Yarrowia lipolytica</i> for the production of cyclopropanated fatty acids. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 881-888.	3.0	19
169	Metabolic Engineering of <i>Escherichia coli</i> for Efficient Production of 2-Pyrone-4,6-dicarboxylic Acid from Glucose. <i>ACS Synthetic Biology</i> , 2018, 7, 2296-2307.	3.8	31
170	Structural Insights into Polyhydroxyalkanoates Biosynthesis. <i>Trends in Biochemical Sciences</i> , 2018, 43, 790-805.	7.5	84
171	Engineering a Glucosamine-6-phosphate Responsive <i>glmS</i> Ribozyme Switch Enables Dynamic Control of Metabolic Flux in <i>Bacillus subtilis</i> for Overproduction of N-Acetylglucosamine. <i>ACS Synthetic Biology</i> , 2018, 7, 2423-2435.	3.8	49
172	Metabolic engineering of <i>Escherichia coli</i> for secretory production of free haem. <i>Nature Catalysis</i> , 2018, 1, 720-728.	34.4	75
173	Metabolic engineering of <i>Escherichia coli</i> for high-level astaxanthin production with high productivity. <i>Metabolic Engineering</i> , 2018, 49, 105-115.	7.0	124
174	Synthetic Biology Expands the Industrial Potential of <i>Yarrowia lipolytica</i> . <i>Trends in Biotechnology</i> , 2018, 36, 1085-1095.	9.3	107
175	Metabolomics for industrial fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 1073-1077.	3.4	7
176	C1 Gas Refinery. , 2018, , 1-16.		1
177	Bioproduction of Chemicals: An Introduction. , 2018, , 1-16.		0
178	Bioplastics Biotechnology. , 2018, , 1-17.		0
179	Polyketide Bioderivatization Using the Promiscuous Acyltransferase KirCII. <i>ACS Synthetic Biology</i> , 2017, 6, 421-427.	3.8	42
180	Construction of <i>Bacillus thuringiensis</i> Simulant Strains Suitable for Environmental Release. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	6

#	ARTICLE	IF	CITATIONS
181	Metabolic engineering for the microbial production of marine bioactive compounds. <i>Biotechnology Advances</i> , 2017, 35, 1004-1021.	11.7	30
182	Current state and applications of microbial genome-scale metabolic models. <i>Current Opinion in Systems Biology</i> , 2017, 2, 10-18.	2.6	87
183	Engineering the xyloseâ€catabolizing Dahms pathway for production of poly(d â€lactateâ€co â€glycolate) and poly(d â€lactateâ€co â€glycolateâ€co â€d â€2â€hydroxybutyrate) in <i>Escherichia coli</i> . <i>Microbial Biotechnology</i> , 2017, 10, 1353-1364.	2.6	35
184	Controllable gold-capped nanoporous anodic alumina chip for label-free, specific detection of bacterial cells. <i>RSC Advances</i> , 2017, 7, 18815-18820.	3.6	8
185	antiSMASH 4.0â€improvements in chemistry prediction and gene cluster boundary identification. <i>Nucleic Acids Research</i> , 2017, 45, W36-W41.	14.5	1,196
186	CRISPR/Cas9-coupled recombineering for metabolic engineering of <i>Corynebacterium glutamicum</i> . <i>Metabolic Engineering</i> , 2017, 42, 157-167.	7.0	181
187	Dissemination of antibiotic resistance genes from antibiotic producers to pathogens. <i>Nature Communications</i> , 2017, 8, 15784.	12.8	287
188	Production of 5-aminovaleric acid in recombinant <i>Corynebacterium glutamicum</i> strains from a <i>Miscanthus hydrolysate</i> solution prepared by a newly developed <i>Miscanthus hydrolysis</i> process. <i>Bioresource Technology</i> , 2017, 245, 1692-1700.	9.6	45
189	Biotransformation of p-xylene into terephthalic acid by engineered <i>Escherichia coli</i> . <i>Nature Communications</i> , 2017, 8, 15689.	12.8	62
190	Systems approach to characterize the metabolism of liver cancer stem cells expressing CD133. <i>Scientific Reports</i> , 2017, 7, 45557.	3.3	31
191	Metabolic engineering of <i>Escherichia coli</i> for the production of four-, five- and six-carbon lactams. <i>Metabolic Engineering</i> , 2017, 41, 82-91.	7.0	74
192	Genomic and transcriptomic landscape of <i>Escherichia coli</i> BL21(DE3). <i>Nucleic Acids Research</i> , 2017, 45, 5285-5293.	14.5	49
193	Biosensorâ€Enabled Directed Evolution to Improve Muconic Acid Production in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Journal</i> , 2017, 12, 1600687.	3.5	98
194	Genome analysis of a hyper acetoneâ€butanolâ€ethanol (ABE) producing <i>Clostridium acetobutylicum</i> BKM19. <i>Biotechnology Journal</i> , 2017, 12, 1600457.	3.5	9
195	Metabolic engineering of <i>Mannheimia succiniciproducens</i> for succinic acid production based on elementary mode analysis with clustering. <i>Biotechnology Journal</i> , 2017, 12, 1600701.	3.5	16
196	Gene Expression Knockdown by Modulating Synthetic Small RNA Expression in <i>Escherichia coli</i> . <i>Cell Systems</i> , 2017, 5, 418-426.e4.	6.2	83
197	Framework and resource for more than 11,000 gene-transcript-protein-reaction associations in human metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9740-E9749.	7.1	29
198	Holographic deep learning for rapid optical screening of anthrax spores. <i>Science Advances</i> , 2017, 3, e1700606.	10.3	143

#	ARTICLE	IF	CITATIONS
199	The contribution of microbial biotechnology to sustainable development goals. <i>Microbial Biotechnology</i> , 2017, 10, 984-987.	4.2	73
200	Charge and dielectric effects of biomolecules on electrical characteristics of nanowire FET biosensors. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	19
201	Harnessing the respiration machinery for high-yield production of chemicals in metabolically engineered <i>Lactococcus lactis</i> . <i>Metabolic Engineering</i> , 2017, 44, 22-29.	7.0	30
202	Formic acid as a secondary substrate for succinic acid production by metabolically engineered <i>Mannheimia succiniciproducens</i> . <i>Biotechnology and Bioengineering</i> , 2017, 114, 2837-2847.	3.3	30
203	Biosynthesis of 2-Hydroxyacid-Containing Polyhydroxyalkanoates by Employing butyryl-CoA Transferases in Metabolically Engineered <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2017, 12, 1700116.	3.5	18
204	Development of gold nanoparticle-aptamer-based LSPR sensing chips for the rapid detection of <i>Salmonella typhimurium</i> in pork meat. <i>Scientific Reports</i> , 2017, 7, 10130.	3.3	130
205	Enabling tools for high-throughput detection of metabolites: Metabolic engineering and directed evolution applications. <i>Biotechnology Advances</i> , 2017, 35, 950-970.	11.7	97
206	Systems metabolic engineering as an enabling technology in accomplishing sustainable development goals. <i>Microbial Biotechnology</i> , 2017, 10, 1254-1258.	4.2	23
207	Bacterial cellulose as an example product for sustainable production and consumption. <i>Microbial Biotechnology</i> , 2017, 10, 1181-1185.	4.2	55
208	Recent development of computational resources for new antibiotics discovery. <i>Current Opinion in Microbiology</i> , 2017, 39, 113-120.	5.1	34
209	An evolutionary optimization of a rhodopsin-based phototrophic metabolism in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2017, 16, 111.	4.0	11
210	Recent advances in systems metabolic engineering tools and strategies. <i>Current Opinion in Biotechnology</i> , 2017, 47, 67-82.	6.6	185
211	Crystal structure of <i>Ralstonia eutropha</i> polyhydroxyalkanoate synthase C-terminal domain and reaction mechanisms. <i>Biotechnology Journal</i> , 2017, 12, 1600648.	3.5	57
212	Structure and function of the N-terminal domain of <i>Ralstonia eutropha</i> polyhydroxyalkanoate synthase, and the proposed structure and mechanisms of the whole enzyme. <i>Biotechnology Journal</i> , 2017, 12, 1600649.	3.5	35
213	The antiSMASH database, a comprehensive database of microbial secondary metabolite biosynthetic gene clusters. <i>Nucleic Acids Research</i> , 2017, 45, D555-D559.	14.5	207
214	Efficient gene knockdown in <i>Clostridium acetobutylicum</i> by synthetic small regulatory RNAs. <i>Biotechnology and Bioengineering</i> , 2017, 114, 374-383.	3.3	51
215	Bioplastics <i>Biotechnology</i> . , 2017, , 551-567.		0
216	Unveiling the Hybrid Genome Structure of <i>Escherichia coli</i> RR1 (HB101 RecA+). <i>Frontiers in Microbiology</i> , 2017, 08, 585.	3.5	4

#	ARTICLE	IF	CITATIONS
217	C1 Gas Refinery. , 2017, , 501-516.		0
218	Bioproduction of Chemicals: An Introduction. , 2017, , 207-222.		0
219	Systems Metabolic Engineering of Escherichia coli. EcoSal Plus, 2017, 7, .	5.4	1
220	Highly selective production of succinic acid by metabolically engineered <i>Mannheimia succiniciproducens</i> and its efficient purification. Biotechnology and Bioengineering, 2016, 113, 2168-2177.	3.3	53
221	CRISPy-web: An online resource to design sgRNAs for CRISPR applications. Synthetic and Systems Biotechnology, 2016, 1, 118-121.	3.7	117
222	Stable and enhanced gene expression in Clostridium acetobutylicum using synthetic untranslated regions with a stem-loop. Journal of Biotechnology, 2016, 230, 40-43.	3.8	13
223	Metabolic engineering with systems biology tools to optimize production of prokaryotic secondary metabolites. Natural Product Reports, 2016, 33, 933-941.	10.3	52
224	Biosynthesis of poly(2-hydroxyisovalerate-co-lactate) by metabolically engineered <i>Escherichia coli</i> . Biotechnology Journal, 2016, 11, 1572-1585.	3.5	25
225	Central metabolic nodes for diverse biochemical production. Current Opinion in Chemical Biology, 2016, 35, 37-42.	6.1	30
226	In vivo synthesis of europium selenide nanoparticles and related cytotoxicity evaluation of human cells. Enzyme and Microbial Technology, 2016, 95, 201-208.	3.2	29
227	Metabolic engineering of Corynebacterium glutamicum for enhanced production of 5-aminovaleric acid. Microbial Cell Factories, 2016, 15, 174.	4.0	96
228	Identification of gene knockdown targets conferring enhanced isobutanol and 1-butanol tolerance to Saccharomyces cerevisiae using a tunable RNAi screening approach. Applied Microbiology and Biotechnology, 2016, 100, 10005-10018.	3.6	21
229	In Memoriam of Prof. Bernard Witholt. Biotechnology Journal, 2016, 11, 195-196.	3.5	2
230	Recent trends in metabolic engineering of microorganisms for the production of advanced biofuels. Current Opinion in Chemical Biology, 2016, 35, 10-21.	6.1	55
231	CRISPR technologies for bacterial systems: Current achievements and future directions. Biotechnology Advances, 2016, 34, 1180-1209.	11.7	124
232	Biomass, strain engineering, and fermentation processes for butanol production by solventogenic clostridia. Applied Microbiology and Biotechnology, 2016, 100, 8255-8271.	3.6	44
233	Systems Metabolic Engineering of <i>Escherichia coli</i> . EcoSal Plus, 2016, 7, .	5.4	31
234	Systematic engineering of TCA cycle for optimal production of a four-carbon platform chemical 4-hydroxybutyric acid in Escherichia coli. Metabolic Engineering, 2016, 38, 264-273.	7.0	25

#	ARTICLE	IF	CITATIONS
235	Optimization of phage λ promoter strength for synthetic small regulatory RNA-based metabolic engineering. <i>Biotechnology and Bioprocess Engineering</i> , 2016, 21, 483-490.	2.6	11
236	Prospects of microbial cell factories developed through systems metabolic engineering. <i>Microbial Biotechnology</i> , 2016, 9, 610-617.	4.2	69
237	Homo-succinic acid production by metabolically engineered <i>Mannheimia succiniciproducens</i> . <i>Metabolic Engineering</i> , 2016, 38, 409-417.	7.0	53
238	Microfluidic high-throughput selection of microalgal strains with superior photosynthetic productivity using competitive phototaxis. <i>Scientific Reports</i> , 2016, 6, 21155.	3.3	57
239	Analysis of the mouse gut microbiome using full-length 16S rRNA amplicon sequencing. <i>Scientific Reports</i> , 2016, 6, 29681.	3.3	178
240	In vivo continuous evolution of genes and pathways in yeast. <i>Nature Communications</i> , 2016, 7, 13051.	12.8	106
241	Precisely Determining Ultralow level UO ₂ ²⁺ in Natural Water with Plasmonic Nanowire Interstice Sensor. <i>Scientific Reports</i> , 2016, 6, 19646.	3.3	34
242	Single Walled Carbon Nanotube-Based Electrical Biosensor for the Label-Free Detection of Pathogenic Bacteria. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 6520-6525.	0.9	12
243	Enzymatic formation of carbohydrate rings catalyzed by single-walled carbon nanotubes. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 725-733.	3.4	0
244	Deciphering <i>Clostridium tyrobutyricum</i> Metabolism Based on the Whole-Genome Sequence and Proteome Analyses. <i>MBio</i> , 2016, 7, .	4.1	72
245	One hundred years of clostridial butanol fermentation. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw001.	1.8	93
246	Biosynthesis of poly(2-hydroxybutyrate-co-lactate) in metabolically engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2016, 21, 169-174.	2.6	25
247	Production of succinic acid by metabolically engineered microorganisms. <i>Current Opinion in Biotechnology</i> , 2016, 42, 54-66.	6.6	229
248	Combining metabolic engineering and biocompatible chemistry for high-yield production of homo-diacetyl and homo-(S,S)-2,3-butanediol. <i>Metabolic Engineering</i> , 2016, 36, 57-67.	7.0	57
249	Metabolic Engineering of <i>Escherichia coli</i> for the Production of 3-Hydroxypropionic Acid and Malonic Acid through L-Alanine Route. <i>ACS Synthetic Biology</i> , 2016, 5, 1256-1263.	3.8	90
250	One-step fermentative production of poly(lactate-co-glycolate) from carbohydrates in <i>Escherichia coli</i> . <i>Nature Biotechnology</i> , 2016, 34, 435-440.	17.5	182
251	Synthetic biology and molecular genetics in non-conventional yeasts: Current tools and future advances. <i>Fungal Genetics and Biology</i> , 2016, 89, 126-136.	2.1	166
252	Electro-triggering and electrochemical monitoring of dopamine exocytosis from a single cell by using ultrathin electrodes based on Au nanowires. <i>Nanoscale</i> , 2016, 8, 214-218.	5.6	13

#	ARTICLE	IF	CITATIONS
253	Optical Biosensors for the Detection of Pathogenic Microorganisms. Trends in Biotechnology, 2016, 34, 7-25.	9.3	434
254	Advances in microbial biosynthesis of metal nanoparticles. Applied Microbiology and Biotechnology, 2016, 100, 521-534.	3.6	144
255	Microbial Platform Cells for Synthetic Biology. , 2016, , 229-254.		1
256	Biosynthesis of Lactate-containing Polyhydroxyalkanoates in Recombinant Escherichia coli by Employing New CoA Transferases. KSBB Journal, 2016, 31, 27-32.	0.2	8
257	Metabolic engineering of the genus Clostridium for butanol production. Korean Journal of Microbiology, 2016, 52, 391-397.	0.2	2
258	Editorial: <i>Biotechnology Journal</i> brings more than biotechnology. Biotechnology Journal, 2015, 10, 1663-1665.	3.5	0
259	Do genome-scale models need exact solvers or clearer standards?. Molecular Systems Biology, 2015, 11, 831.	7.2	68
260	Synthetic Biology of Hydrophobic Polymer Production. Springer Protocols, 2015, , 53-63.	0.3	1
261	Metabolic engineering of Escherichia coli for the production of 1,3-diaminopropane, a three carbon diamine. Scientific Reports, 2015, 5, 13040.	3.3	67
262	Label-Free and Real-Time Detection of Avian Influenza Using Nanowire Field Effect Transistors. Journal of Biomedical Nanotechnology, 2015, 11, 1640-1643.	1.1	9
263	Xylan catabolism is improved by blending bioprospecting and metabolic pathway engineering in <i>Saccharomyces cerevisiae</i>. Biotechnology Journal, 2015, 10, 575-575.	3.5	8
264	Metabolic engineering of Escherichia coli for the production of 3-aminopropionic acid. Metabolic Engineering, 2015, 30, 121-129.	7.0	95
265	Flux-sum analysis identifies metabolite targets for strain improvement. BMC Systems Biology, 2015, 9, 73.	3.0	15
266	Recent Advances in Biobutanol Production. Industrial Biotechnology, 2015, 11, 316-321.	0.8	15
267	Multispot array combined with S1 nuclease-mediated elimination of unpaired nucleotides. Biochip Journal, 2015, 9, 156-163.	4.9	2
268	Metabolic engineering of clostridia for the production of chemicals. Biofuels, Bioproducts and Biorefining, 2015, 9, 211-225.	3.7	44
269	Transcriptomic analysis of Corynebacterium glutamicum in the response to the toxicity of furfural present in lignocellulosic hydrolysates. Process Biochemistry, 2015, 50, 347-356.	3.7	13
270	Synthetic Biology for Specialty Chemicals. Annual Review of Chemical and Biomolecular Engineering, 2015, 6, 35-52.	6.8	24

#	ARTICLE	IF	CITATIONS
271	Design of homo-organic acid producing strains using multi-objective optimization. <i>Metabolic Engineering</i> , 2015, 28, 63-73.	7.0	25
272	Development of rice bran treatment process and its use for the synthesis of polyhydroxyalkanoates from rice bran hydrolysate solution. <i>Bioresource Technology</i> , 2015, 181, 283-290.	9.6	42
273	Biorefineries for the production of top building block chemicals and their derivatives. <i>Metabolic Engineering</i> , 2015, 28, 223-239.	7.0	425
274	Editorial: Methods and Advances “ Biotech progress for science and our daily lives. <i>Biotechnology Journal</i> , 2015, 10, 3-4.	3.5	1
275	Permeation characteristics of volatile fatty acids solution by forward osmosis. <i>Process Biochemistry</i> , 2015, 50, 669-677.	3.7	20
276	A systems approach to traditional oriental medicine. <i>Nature Biotechnology</i> , 2015, 33, 264-268.	17.5	90
277	How to set up collaborations between academia and industrial biotech companies. <i>Nature Biotechnology</i> , 2015, 33, 237-240.	17.5	23
278	Combining rational metabolic engineering and flux optimization strategies for efficient production of fumaric acid. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 8455-8464.	3.6	29
279	Surveying the lipogenesis landscape in <i>Yarrowia lipolytica</i> through understanding the function of a Mga2p regulatory protein mutant. <i>Metabolic Engineering</i> , 2015, 31, 102-111.	7.0	66
280	antiSMASH 3.0—a comprehensive resource for the genome mining of biosynthetic gene clusters. <i>Nucleic Acids Research</i> , 2015, 43, W237-W243.	14.5	1,764
281	Reconstruction of genome-scale human metabolic models using omics data. <i>Integrative Biology (United Kingdom)</i> , 2015, 7, 859-868.	1.3	51
282	The CpxRA Two-Component System is Involved in the Maintenance of the Integrity of the Cell Envelope in the Rumen Bacterium <i>Mannheimia succiniciproducens</i> . <i>Current Microbiology</i> , 2015, 70, 103-109.	2.2	5
283	Development of a portable biosensor system for pesticide detection on a metal chip surface integrated with wireless communication. <i>Food Science and Biotechnology</i> , 2015, 24, 743-750.	2.6	10
284	A metabolomics approach shows that catechin-enriched green tea attenuates ultraviolet B-induced skin metabolite alterations in mice. <i>Metabolomics</i> , 2015, 11, 861-871.	3.0	21
285	Establishment of a biosynthesis pathway for (R)-3-hydroxyalkanoates in recombinant <i>Escherichia coli</i> . <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 702-706.	2.7	3
286	Dynamics of membrane fatty acid composition of succinic acid-producing <i>Anaerobiospirillum succiniciproducens</i> . <i>Journal of Biotechnology</i> , 2015, 193, 130-133.	3.8	8
287	CRISPR-Cas9 Based Engineering of Actinomycetal Genomes. <i>ACS Synthetic Biology</i> , 2015, 4, 1020-1029.	3.8	365
288	Redox-switch regulatory mechanism of thiolase from <i>Clostridium acetobutylicum</i> . <i>Nature Communications</i> , 2015, 6, 8410.	12.8	54

#	ARTICLE	IF	CITATIONS
289	Systems strategies for developing industrial microbial strains. <i>Nature Biotechnology</i> , 2015, 33, 1061-1072.	17.5	433
290	Human genes with a greater number of transcript variants tend to show biological features of housekeeping and essential genes. <i>Molecular BioSystems</i> , 2015, 11, 2798-2807.	2.9	11
291	Bio-based production of monomers and polymers by metabolically engineered microorganisms. <i>Current Opinion in Biotechnology</i> , 2015, 36, 73-84.	6.6	126
292	Metabolic engineering of <i>Yarrowia lipolytica</i> for itaconic acid production. <i>Metabolic Engineering</i> , 2015, 32, 66-73.	7.0	119
293	Metabolic engineering of <i>Ralstonia eutropha</i> for the production of polyhydroxyalkanoates from sucrose. <i>Biotechnology and Bioengineering</i> , 2015, 112, 638-643.	3.3	62
294	Metabolic engineering of antibiotic factories: new tools for antibiotic production in actinomycetes. <i>Trends in Biotechnology</i> , 2015, 33, 15-26.	9.3	159
295	Metabolic engineering of <i>Corynebacterium glutamicum</i> for the production of L-ornithine. <i>Biotechnology and Bioengineering</i> , 2015, 112, 416-421.	3.3	73
296	Applications of genome-scale metabolic network model in metabolic engineering. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 339-348.	3.0	77
297	Recent advances in microbial production of fuels and chemicals using tools and strategies of systems metabolic engineering. <i>Biotechnology Advances</i> , 2015, 33, 1455-1466.	11.7	94
298	Metabolic engineering of strains: from industrial-scale to lab-scale chemical production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 423-436.	3.0	50
299	Genome engineering and gene expression control for bacterial strain development. <i>Biotechnology Journal</i> , 2015, 10, 56-68.	3.5	59
300	Aptamer-functionalized localized surface plasmon resonance sensor for the multiplexed detection of different bacterial species. <i>Talanta</i> , 2015, 132, 112-117.	5.5	120
301	Metabolic engineering for the production of hydrocarbon fuels. <i>Current Opinion in Biotechnology</i> , 2015, 33, 15-22.	6.6	64
302	Metabolic Engineering of Microorganisms for the Production of Higher Alcohols. <i>MBio</i> , 2014, 5, e01524-14.	4.1	61
303	Effects of introducing heterologous pathways on microbial metabolism with respect to metabolic optimality. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 660-667.	2.6	4
304	Metabolic engineering of microorganisms for the production of L-arginine and its derivatives. <i>Microbial Cell Factories</i> , 2014, 13, 166.	4.0	43
305	Short-term differential adaptation to anaerobic stress via genomic mutations by <i>Escherichia coli</i> strains K-12 and B lacking alcohol dehydrogenase. <i>Frontiers in Microbiology</i> , 2014, 5, 476.	3.5	9
306	Editorial: Latest methods and advances in biotechnology. <i>Biotechnology Journal</i> , 2014, 9, 2-4.	3.5	2

#	ARTICLE	IF	CITATIONS
307	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for itaconic acid production. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 8155-8164.	3.6	87
308	High-level conversion of L-lysine into 5-aminovalerate that can be used for nylon 6,5 synthesis. <i>Biotechnology Journal</i> , 2014, 9, 1322-1328.	3.5	64
309	Editorial: Biotechnology as an enabling technology and much more. <i>Biotechnology Journal</i> , 2014, 9, 991-992.	3.5	0
310	Metabolic engineering of <i>Escherichia coli</i> for the production of phenol from glucose. <i>Biotechnology Journal</i> , 2014, 9, 621-629.	3.5	103
311	Systems biology and biotechnology of <i>Streptomyces</i> species for the production of secondary metabolites. <i>Biotechnology Advances</i> , 2014, 32, 255-268.	11.7	199
312	Engineering synergy in biotechnology. <i>Nature Chemical Biology</i> , 2014, 10, 319-322.	8.0	147
313	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, 5105-5115.	3.6	29
314	Metabolic engineering of <i>Escherichia coli</i> for biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) from glucose. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 95-104.	3.6	76
315	Harnessing <i>Yarrowia lipolytica</i> lipogenesis to create a platform for lipid and biofuel production. <i>Nature Communications</i> , 2014, 5, 3131.	12.8	488
316	Multiplex electrical detection of avian influenza and human immunodeficiency virus with an underlap-embedded silicon nanowire field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2014, 55, 162-167.	10.1	39
317	Optimization of a Yeast RNA Interference System for Controlling Gene Expression and Enabling Rapid Metabolic Engineering. <i>ACS Synthetic Biology</i> , 2014, 3, 307-313.	3.8	67
318	Electro-triggered, spatioselective, quantitative gene delivery into a single cell nucleus by Au nanowire nanoinjector. <i>New Biotechnology</i> , 2014, 31, S173-S174.	4.4	2
319	Metabolic engineering of <i>Corynebacterium glutamicum</i> for L-arginine production. <i>Nature Communications</i> , 2014, 5, 4618.	12.8	209
320	Increasing expression level and copy number of a <i>Yarrowia lipolytica</i> plasmid through regulated centromere function. <i>FEMS Yeast Research</i> , 2014, 14, n/a-n/a.	2.3	43
321	Cell-Based Method Utilizing Fluorescent <i>Escherichia coli</i> Auxotrophs for Quantification of Multiple Amino Acids. <i>Analytical Chemistry</i> , 2014, 86, 2489-2496.	6.5	13
322	Metabolic engineering of <i>Clostridium acetobutylicum</i> for butyric acid production with high butyric acid selectivity. <i>Metabolic Engineering</i> , 2014, 23, 165-174.	7.0	83
323	Kinetic model-based feed-forward controlled fed-batch fermentation of <i>Lactobacillus rhamnosus</i> for the production of lactic acid from Arabic date juice. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1007-1015.	3.4	22
324	Model based engineering of <i>Pichia pastoris</i> central metabolism enhances recombinant protein production. <i>Metabolic Engineering</i> , 2014, 24, 129-138.	7.0	130

#	ARTICLE	IF	CITATIONS
325	Novel Cysteine-Centered Sulfur Metabolic Pathway in the Thermotolerant Methylotrophic Yeast <i>Hansenula polymorpha</i> . PLoS ONE, 2014, 9, e100725.	2.5	19
326	Biosynthesis of Lactate-containing Polyhydroxyalkanoates in Recombinant <i>Escherichia coli</i> from Sucrose. KSBB Journal, 2014, 29, 443-447.	0.2	3
327	Development of Metabolic Engineering Strategies for Microbial Platform to Produce Bioplastics. Applied Chemistry for Engineering, 2014, 25, 134-141.	0.2	1
328	MaoC Mediated Biosynthesis of Medium-chain-length Polyhydroxyalkanoates in Recombinant <i>Escherichia coli</i> from Fatty Acid. KSBB Journal, 2014, 29, 244-249.	0.2	1
329	Expanding the metabolic engineering toolbox with directed evolution. Biotechnology Journal, 2013, 8, 1397-1410.	3.5	43
330	Model-based design of synthetic, biological systems. Chemical Engineering Science, 2013, 103, 2-11.	3.8	18
331	Characterization and evaluation of corn steep liquid in acetone-butanol-ethanol production by <i>Clostridium acetobutylicum</i> . Biotechnology and Bioprocess Engineering, 2013, 18, 266-271.	2.6	10
332	Design and use of synthetic regulatory small RNAs to control gene expression in <i>Escherichia coli</i> . Nature Protocols, 2013, 8, 1694-1707.	12.0	157
333	Computational Methods for Strain Design. , 2013, , 141-156.		0
334	Microbial production of lactate-containing polyesters. Microbial Biotechnology, 2013, 6, 621-636.	4.2	29
335	Metabolic engineering of <i>Escherichia coli</i> for the production of 5-aminovalerate and glutarate as C5 platform chemicals. Metabolic Engineering, 2013, 16, 42-47.	7.0	140
336	Production of 4-hydroxybutyric acid by metabolically engineered <i>Mannheimia succiniciproducens</i> and its conversion to γ -butyrolactone by acid treatment. Metabolic Engineering, 2013, 20, 73-83.	7.0	23
337	Construction of homologous and heterologous synthetic sucrose utilizing modules and their application for carotenoid production in recombinant <i>Escherichia coli</i> . Bioresource Technology, 2013, 130, 288-295.	9.6	8
338	Production of bulk chemicals via novel metabolic pathways in microorganisms. Biotechnology Advances, 2013, 31, 925-935.	11.7	62
339	Metabolic engineering of <i>Ralstonia eutropha</i> for the biosynthesis of 2-hydroxyacid-containing polyhydroxyalkanoates. Metabolic Engineering, 2013, 20, 20-28.	7.0	63
340	Surface display of recombinant proteins on <i>Escherichia coli</i> by BclA exosporium of <i>Bacillus anthracis</i> . Microbial Cell Factories, 2013, 12, 81.	4.0	20
341	Microbial production of short-chain alkanes. Nature, 2013, 502, 571-574.	27.8	408
342	Metabolic engineering of <i>Escherichia coli</i> using synthetic small regulatory RNAs. Nature Biotechnology, 2013, 31, 170-174.	17.5	551

#	ARTICLE	IF	CITATIONS
343	Metabolic engineering of muconic acid production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2013, 15, 55-66.	7.0	251
344	Generalizing a hybrid synthetic promoter approach in <i>Yarrowia lipolytica</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3037-3052.	3.6	107
345	Book review “ <i>Biochemical Pathways: An Atlas of Biochemistry and Molecular Biology. Second Edition</i> ”. <i>Biotechnology Journal</i> , 2013, 8, 13-14.	3.5	0
346	Facile Functionalization of Colloidal Gold Nanorods by the Specific Binding of an Engineered Protein that Is Preferred over CTAB Bilayers. <i>ChemPlusChem</i> , 2013, 78, 48-51.	2.8	9
347	Propionyl-CoA dependent biosynthesis of 2-hydroxybutyrate containing polyhydroxyalkanoates in metabolically engineered <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2013, 165, 93-98.	3.8	38
348	Use of expression-enhancing terminators in <i>Saccharomyces cerevisiae</i> to increase mRNA half-life and improve gene expression control for metabolic engineering applications. <i>Metabolic Engineering</i> , 2013, 19, 88-97.	7.0	171
349	Flux-coupled genes and their use in metabolic flux analysis. <i>Biotechnology Journal</i> , 2013, 8, 1035-1042.	3.5	14
350	Acetone-butanol-ethanol production with high productivity using <i>Clostridium acetobutylicum</i> BKM19. <i>Biotechnology and Bioengineering</i> , 2013, 110, 1646-1653.	3.3	78
351	Metabolic engineering of <i>Escherichia coli</i> for the production of fumaric acid. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2025-2034.	3.3	119
352	Evaluating the influence of selection markers on obtaining selected pools and stable cell lines in human cells. <i>Biotechnology Journal</i> , 2013, 8, 811-821.	3.5	36
353	Frontiers of yeast metabolic engineering: diversifying beyond ethanol and <i>Saccharomyces</i> . <i>Current Opinion in Biotechnology</i> , 2013, 24, 1023-1030.	6.6	98
354	Heterologous production of pentane in the oleaginous yeast <i>Yarrowia lipolytica</i> . <i>Journal of Biotechnology</i> , 2013, 165, 184-194.	3.8	95
355	Rapid one-step inactivation of single or multiple genes in <i>Escherichia coli</i> . <i>Biotechnology Journal</i> , 2013, 8, 776-784.	3.5	46
356	Metabolic engineering of <i>Escherichia coli</i> for enhanced biosynthesis of poly(3-hydroxybutyrate) based on proteome analysis. <i>Biotechnology Letters</i> , 2013, 35, 1631-1637.	2.2	17
357	Quantified High-Throughput Screening of <i>Escherichia coli</i> Producing Poly(3-hydroxybutyrate) Based on FACS. <i>Applied Biochemistry and Biotechnology</i> , 2013, 170, 1767-1779.	2.9	29
358	Metabolic engineering of <i>Clostridium acetobutylicum</i> for the enhanced production of isopropanol-butanol-ethanol fuel mixture. <i>Biotechnology Progress</i> , 2013, 29, 1083-1088.	2.6	69
359	Surface engineering for enhancement of sensitivity in an underlap-FET biosensor by control of wettability. <i>Biosensors and Bioelectronics</i> , 2013, 41, 867-870.	10.1	46
360	Electrotriggered, Spatioselective, Quantitative Gene Delivery into a Single Cell Nucleus by Au Nanowire Nanoinjector. <i>Nano Letters</i> , 2013, 13, 2431-2435.	9.1	35

#	ARTICLE	IF	CITATIONS
361	Genome-wide analysis of redox reactions reveals metabolic engineering targets for d-lactate overproduction in <i>Escherichia coli</i> . <i>Metabolic Engineering</i> , 2013, 18, 44-52.	7.0	33
362	Metabolic engineering of <i>Clostridium acetobutylicum</i> for enhanced production of butyric acid. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9355-9363.	3.6	41
363	Promoter engineering: Recent advances in controlling transcription at the most fundamental level. <i>Biotechnology Journal</i> , 2013, 8, 46-58.	3.5	277
364	Applications of genome-scale metabolic network models in the biopharmaceutical industry. <i>Pharmaceutical Bioprocessing</i> , 2013, 1, 337-339.	0.8	2
365	Facile Fabrication of Multi-targeted and Stable Biochemical SERS Sensors. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3010-3014.	3.3	19
366	Editorial: How multiplexed tools and approaches speed up the progress of metabolic engineering. <i>Biotechnology Journal</i> , 2013, 8, 506-507.	3.5	5
367	Editorial: Flavors of international biotechnology. <i>Biotechnology Journal</i> , 2013, 8, 754-755.	3.5	3
368	Design and development of synthetic microbial platform cells for bioenergy. <i>Frontiers in Microbiology</i> , 2013, 4, 92.	3.5	37
369	WebCell. , 2013, , 2351-2353.		0
370	Label-Free Electrochemical Diagnosis of Viral Antigens with Genetically Engineered Fusion Protein. <i>Sensors</i> , 2012, 12, 10097-10108.	3.8	20
371	Distinct Roles of β -Galactosidase Paralogues of the Rumen Bacterium <i>Mannheimia succiniciproducens</i> . <i>Journal of Bacteriology</i> , 2012, 194, 426-436.	2.2	5
372	A nanoforest structure for practical surface-enhanced Raman scattering substrates. <i>Nanotechnology</i> , 2012, 23, 095301.	2.6	25
373	Expanding the chemical palate of cells by combining systems biology and metabolic engineering. <i>Metabolic Engineering</i> , 2012, 14, 289-297.	7.0	131
374	Rational Design of <i>Escherichia coli</i> for α -Isoleucine Production. <i>ACS Synthetic Biology</i> , 2012, 1, 532-540.	3.8	42
375	Effects of nutritional enrichment on the production of acetone-butanol-ethanol (ABE) by <i>Clostridium acetobutylicum</i> . <i>Journal of Microbiology</i> , 2012, 50, 1063-1066.	2.8	17
376	Engineering of microorganisms for the production of biofuels and perspectives based on systems metabolic engineering approaches. <i>Biotechnology Advances</i> , 2012, 30, 989-1000.	11.7	143
377	Metabolic Engineering of <i>Clostridium acetobutylicum</i> ATCC 824 for Isopropanol-Butanol-Ethanol Fermentation. <i>Applied and Environmental Microbiology</i> , 2012, 78, 1416-1423.	3.1	213
378	Metabolic Engineering and Synthetic Biology in Strain Development. <i>ACS Synthetic Biology</i> , 2012, 1, 491-492.	3.8	17

#	ARTICLE	IF	CITATIONS
379	Comparative multi-omics systems analysis of Escherichia coli strains B and K-12. Genome Biology, 2012, 13, R37.	9.6	155
380	Editorial: Biotechnology's impact on sustainable development. Biotechnology Journal, 2012, 7, 1317-1317.	3.5	1
381	Metabolic engineering of Escherichia coli for the production of 1-propanol. Metabolic Engineering, 2012, 14, 477-486.	7.0	94
382	Single-step multiplex detection of toxic metal ions by Au nanowires-on-chip sensor using reporter elimination. Lab on A Chip, 2012, 12, 3077.	6.0	62
383	Enhanced Butanol Production Obtained by Reinforcing the Direct Butanol-Forming Route in Clostridium acetobutylicum. MBio, 2012, 3, .	4.1	220
384	Development of label-free optical diagnosis for sensitive detection of influenza virus with genetically engineered fusion protein. Talanta, 2012, 89, 246-252.	5.5	65
385	Recent advances in production of recombinant spider silk proteins. Current Opinion in Biotechnology, 2012, 23, 957-964.	6.6	104
386	Systems metabolic engineering, industrial biotechnology and microbial cell factories. Microbial Cell Factories, 2012, 11, 156.	4.0	65
387	Flux variability scanning based on enforced objective flux for identifying gene amplification targets. BMC Systems Biology, 2012, 6, 106.	3.0	62
388	Genome-scale metabolic model of the fission yeast Schizosaccharomyces pombe and the reconciliation of in silico/in vivo mutant growth. BMC Systems Biology, 2012, 6, 49.	3.0	30
389	Butanol production from renewable biomass by clostridia. Bioresource Technology, 2012, 123, 653-663.	9.6	240
390	Advanced bacterial polyhydroxyalkanoates: Towards a versatile and sustainable platform for unnatural tailor-made polyesters. Biotechnology Advances, 2012, 30, 1196-1206.	11.7	150
391	Recent advances in reconstruction and applications of genome-scale metabolic models. Current Opinion in Biotechnology, 2012, 23, 617-623.	6.6	181
392	Innovation at the intersection of synthetic and systems biology. Current Opinion in Biotechnology, 2012, 23, 712-717.	6.6	29
393	Systems biology: the "new biotechnology". Current Opinion in Biotechnology, 2012, 23, 583-584.	6.6	2
394	An Underlap Channel-Embedded Field-Effect Transistor for Biosensor Application in Watery and Dry Environment. IEEE Nanotechnology Magazine, 2012, 11, 390-394.	2.0	80
395	Probing the ArcA regulon in the rumen bacterium Mannheimia succiniciproducens by genome-wide expression profiling. Journal of Microbiology, 2012, 50, 665-672.	2.8	5
396	<i>HpYPS1</i> and <i>HpYPS7</i> encode functional aspartyl proteases localized at the cell surface in the thermotolerant methylotrophic yeast <i>Hansenula polymorpha</i> . Yeast, 2012, 29, 1-16.	1.7	10

#	ARTICLE	IF	CITATIONS
397	<i>In Vitro</i> Biosynthesis of Metal Nanoparticles in Microdroplets. ACS Nano, 2012, 6, 6998-7008.	14.6	42
398	Genome-Scale Network Modeling. , 2012, , 1-23.		2
399	Systems Metabolic Engineering of Escherichia coli for Chemicals, Materials, Biofuels, and Pharmaceuticals. , 2012, , 117-149.		4
400	Nanowire FET Biosensors on a Bulk Silicon Substrate. IEEE Transactions on Electron Devices, 2012, 59, 2243-2249.	3.0	19
401	Systems metabolic engineering of microorganisms for natural and non-natural chemicals. Nature Chemical Biology, 2012, 8, 536-546.	8.0	639
402	R&A-cktitelbild: Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (Angew. Chem. 23/2012). Angewandte Chemie, 2012, 124, 5864-5864.	2.0	0
403	Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator. Angewandte Chemie - International Edition, 2012, 51, 5634-5637.	13.8	38
404	Back Cover: Homogeneous Biogenic Paramagnetic Nanoparticle Synthesis Based on a Microfluidic Droplet Generator (Angew. Chem. Int. Ed. 23/2012). Angewandte Chemie - International Edition, 2012, 51, 5764-5764.	13.8	0
405	Butanol production from renewable biomass: Rediscovery of metabolic pathways and metabolic engineering. Biotechnology Journal, 2012, 7, 186-198.	3.5	138
406	Biosynthesis of lactate&eaccontaining polyesters by metabolically engineered bacteria. Biotechnology Journal, 2012, 7, 199-212.	3.5	35
407	Metabolic network modeling and simulation for drug targeting and discovery. Biotechnology Journal, 2012, 7, 330-342.	3.5	49
408	Editorial: State&eacof&eacche&eacart reviews in industrial biotechnology. Biotechnology Journal, 2012, 7, 166-167.	3.5	0
409	Editorial: NextGen SynBio has arrived.... Biotechnology Journal, 2012, 7, 827-827.	3.5	1
410	Bio&eacbased production of C2&eacC6 platform chemicals. Biotechnology and Bioengineering, 2012, 109, 2437-2459.	3.3	329
411	Using Flux Balance Analysis to Guide Microbial Metabolic Engineering. Methods in Molecular Biology, 2012, 834, 197-216.	0.9	25
412	Metabolic Profiling of Klebsiella oxytoca: Evaluation of Methods for Extraction of Intracellular Metabolites Using UPLC/Q-TOF-MS. Applied Biochemistry and Biotechnology, 2012, 167, 425-438.	2.9	32
413	An engineered Escherichia coli having a high intracellular level of ATP and enhanced recombinant protein production. Applied Microbiology and Biotechnology, 2012, 94, 1079-1086.	3.6	45
414	Editorial: Breaking down the walls to achieve interdisciplinary science and engineering. Biotechnology Journal, 2012, 7, 4-5.	3.5	2

#	ARTICLE	IF	CITATIONS
415	Editorial: Michael Shuler's legacy in biochemical engineering. <i>Biotechnology Journal</i> , 2012, 7, 314-316.	3.5	1
416	A Dual-Gate Field-Effect Transistor for Label-Free Electrical Detection of Avian Influenza. <i>BioNanoScience</i> , 2012, 2, 35-41.	3.5	10
417	Biosynthesis of polyhydroxyalkanoates containing 2-hydroxybutyrate from unrelated carbon source by metabolically engineered <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 273-283.	3.6	112
418	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, 1485-1494.	3.6	129
419	Comparative Analysis of Envelope Proteomes in <i>Escherichia coli</i> B and K-12 Strains. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 470-478.	2.1	20
420	Identification of Factors Regulating <i>Escherichia coli</i> 2,3-Butanediol Production by Continuous Culture and Metabolic Flux Analysis. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 659-667.	2.1	8
421	Programmable peptide-directed two dimensional arrays of various nanoparticles on graphene sheets. <i>Nanoscale</i> , 2011, 3, 3208.	5.6	24
422	Investigation of Size Dependence on Sensitivity for Nanowire FET Biosensors. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 1405-1411.	2.0	24
423	Plasmonic Properties of the Multispot Copper-Capped Nanoparticle Array Chip and Its Application to Optical Biosensors for Pathogen Detection of Multiplex DNAs. <i>Analytical Chemistry</i> , 2011, 83, 6215-6222.	6.5	69
424	Development of a Point-of-Care Testing Platform With a Nanogap-Embedded Separated Double-Gate Field Effect Transistor Array and Its Readout System for Detection of Avian Influenza. <i>IEEE Sensors Journal</i> , 2011, 11, 351-360.	4.7	62
425	Label-free Electrochemical Biosensor Based on Graphene/Ionic Liquid Nanocomposite for the Detection of Organophosphate Pesticides. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1283, 1.	0.1	1
426	Application of Metabolic Flux Analysis in Metabolic Engineering. <i>Methods in Enzymology</i> , 2011, 498, 67-93.	1.0	15
427	Integrative genome-scale metabolic analysis of <i>Vibrio vulnificus</i> for drug targeting and discovery. <i>Molecular Systems Biology</i> , 2011, 7, 460.	7.2	157
428	Site-specific immobilization of gold binding polypeptide on gold nanoparticle-coated graphene sheet for biosensor application. <i>Nanoscale</i> , 2011, 3, 2950.	5.6	50
429	Development of Reflective Biosensor Using Fabrication of Functionalized Photonic Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 632-637.	0.9	24
430	Label-Free Detection of Leptin Antibody-Antigen Interaction by Using LSPR-Based Optical Biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4188-4193.	0.9	12
431	Label-Free Detection of DNA Hybridization Using Pyrene-Functionalized Single-Walled Carbon Nanotubes: Effect of Chemical Structures of Pyrene Molecules on DNA Sensing Performance. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4210-4216.	0.9	14
432	DNA capturing machinery through spore-displayed proteins. <i>Letters in Applied Microbiology</i> , 2011, 53, 445-451.	2.2	0

#	ARTICLE	IF	CITATIONS
433	Comparative proteomic and genetic analyses reveal unidentified mutations in Escherichia coli XL1-Blue and DH5 α . FEMS Microbiology Letters, 2011, 314, 119-124.	1.8	9
434	Metabolic engineering of Escherichia coli for direct production of 1,4-butanediol. Nature Chemical Biology, 2011, 7, 445-452.	8.0	984
435	Systems metabolic engineering for chemicals and materials. Trends in Biotechnology, 2011, 29, 370-378.	9.3	173
436	Long-term continuous adaptation of Escherichia coli to high succinate stress and transcriptome analysis of the tolerant strain. Journal of Bioscience and Bioengineering, 2011, 111, 26-30.	2.2	37
437	Microbial production of building block chemicals and polymers. Current Opinion in Biotechnology, 2011, 22, 758-767.	6.6	199
438	The effects of the physical properties of culture substrates on the growth and differentiation of human embryonic stem cells. Biomaterials, 2011, 32, 8816-8829.	11.4	30
439	Multi-stage high cell continuous fermentation for high productivity and titer. Bioprocess and Biosystems Engineering, 2011, 34, 419-431.	3.4	47
440	A study on the dynamics of the zraP gene expression profile and its application to the construction of zinc adsorption bacteria. Bioprocess and Biosystems Engineering, 2011, 34, 1119-1126.	3.4	15
441	Tailor-made type II Pseudomonas PHA synthases and their use for the biosynthesis of polylactic acid and its copolymer in recombinant Escherichia coli. Applied Microbiology and Biotechnology, 2011, 90, 603-614.	3.6	63
442	Construction of Copper Removing Bacteria Through the Integration of Two-Component System and Cell Surface Display. Applied Biochemistry and Biotechnology, 2011, 165, 1674-1681.	2.9	32
443	Quantitative studies of carbohydrate-protein interaction using functionalized bacterial spores in solution and on chips. Biotechnology and Bioprocess Engineering, 2011, 16, 190-195.	2.6	3
444	Parameter estimation and dynamic control analysis of central carbon metabolism in Escherichia coli. Biotechnology and Bioprocess Engineering, 2011, 16, 216-228.	2.6	9
445	Graphene-based electrochemical biosensor for pathogenic virus detection. Biochip Journal, 2011, 5, 123-128.	4.9	97
446	Hydrogen production by decomposition of ethane-containing methane over carbon black catalysts. Korean Journal of Chemical Engineering, 2011, 28, 1833-1838.	2.7	10
447	The role of Cra in regulating acetate excretion and osmotic tolerance in E. coli K-12 and E. coli B at high density growth. Microbial Cell Factories, 2011, 10, 52.	4.0	34
448	Genome-scale reconstruction and in silico analysis of the Ralstonia eutropha H16 for polyhydroxyalkanoate synthesis, lithoautotrophic growth, and 2-methyl citric acid production. BMC Systems Biology, 2011, 5, 101.	3.0	65
449	Framework for network modularization and Bayesian network analysis to investigate the perturbed metabolic network. BMC Systems Biology, 2011, 5, S14.	3.0	14
450	The genome sequence of E. coli W (ATCC 9637): comparative genome analysis and an improved genome-scale reconstruction of E. coli. BMC Genomics, 2011, 12, 9.	2.8	159

#	ARTICLE	IF	CITATIONS
451	Genome-wide identification of the subcellular localization of the <i>Escherichia coli</i> B proteome using experimental and computational methods. <i>Proteomics</i> , 2011, 11, 1213-1227.	2.2	10
452	Understanding and engineering of microbial cells based on proteomics and its conjunction with other omics studies. <i>Proteomics</i> , 2011, 11, 721-743.	2.2	14
453	Combining a Nanowire SERRS Sensor and a Target Recycling Reaction for Ultrasensitive and Multiplex Identification of Pathogenic Fungi. <i>Small</i> , 2011, 7, 3371-3376.	10.0	45
454	DNA Sensors: Combining a Nanowire SERRS Sensor and a Target Recycling Reaction for Ultrasensitive and Multiplex Identification of Pathogenic Fungi (Small 23/2011). <i>Small</i> , 2011, 7, 3254-3254.	10.0	1
455	Directed Self-Assembly of Gold Nanoparticles on Graphene-Ionic Liquid Hybrid for Enhancing Electrocatalytic Activity. <i>Electroanalysis</i> , 2011, 23, 850-857.	2.9	51
456	Metabolic engineering of <i>Escherichia coli</i> for the production of cadaverine: A five carbon diamine. <i>Biotechnology and Bioengineering</i> , 2011, 108, 93-103.	3.3	202
457	Fed-batch culture of <i>Escherichia coli</i> for <i>L</i> -valine production based on in silico flux response analysis. <i>Biotechnology and Bioengineering</i> , 2011, 108, 934-946.	3.3	76
458	<i>Escherichia coli</i> W as a new platform strain for the enhanced production of <i>L</i> -Valine by systems metabolic engineering. <i>Biotechnology and Bioengineering</i> , 2011, 108, 1140-1147.	3.3	63
459	Editorial: <i>Biotechnology Journal</i> shines the spotlight on ACB 2011. <i>Biotechnology Journal</i> , 2011, 6, 1298-1299.	3.5	5
460	Au Nanowire-Film SERRS Sensor for Ultrasensitive Hg ²⁺ Detection. <i>Chemistry - A European Journal</i> , 2011, 17, 2211-2214.	3.3	80
461	Detection of Single Nucleotide Polymorphisms by a Gold Nanowire-Film SERS Sensor Coupled with S1 Nuclease Treatment. <i>Chemistry - A European Journal</i> , 2011, 17, 8657-8662.	3.3	25
462	Efficient production of polylactic acid and its copolymers by metabolically engineered <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011, 151, 94-101.	3.8	88
463	Development of anaerobically inducible <i>nar</i> promoter expression vectors for the expression of recombinant proteins in <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 2011, 151, 102-107.	3.8	7
464	Complete Genome Sequence of the Metabolically Versatile Plant Growth-Promoting Endophyte <i>Variovorax paradoxus</i> S110. <i>Journal of Bacteriology</i> , 2011, 193, 1183-1190.	2.2	156
465	Characterization of a Bacterial Self-Assembly Surface Layer Protein and Its Application as an Electrical Nanobiosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 402-407.	0.9	13
466	Alignment of SWNTs by Protein-Ligand Interaction of Functionalized Magnetic Particles Under Low Magnetic Fields. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4540-4545.	0.9	2
467	Dynamic Modeling of Lactic Acid Fermentation Metabolism with <i>Lactococcus lactis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011, 21, 162-169.	2.1	18
468	Determination of the Intracellular Concentrations of Metabolites in <i>Escherichia coli</i> Collected during the Exponential and Stationary Growth Phases using Liquid Chromatography-Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 524-530.	1.9	15

#	ARTICLE	IF	CITATIONS
469	Native-sized recombinant spider silk protein produced in metabolically engineered <i>Escherichia coli</i> results in a strong fiber. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14059-14063.	7.1	485
470	Metabolic pathways and fermentative production of L-aspartate family amino acids. Biotechnology Journal, 2010, 5, 560-577.	3.5	77
471	Editorial: Exploring microbes in biotech. Biotechnology Journal, 2010, 5, 247-247.	3.5	1
472	Genome-scale metabolic model of methylotrophic yeast <i>Pichia pastoris</i> and its use for in silico analysis of heterologous protein production. Biotechnology Journal, 2010, 5, 705-715.	3.5	111
473	In silico genome-scale metabolic analysis of <i>Pseudomonas putida</i> KT2440 for polyhydroxyalkanoate synthesis, degradation of aromatics and anaerobic survival. Biotechnology Journal, 2010, 5, 739-750.	3.5	91
474	Editorial: A call for ethical regulation of Genetically Created Organisms (GCOs) beyond GMOs. Biotechnology Journal, 2010, 5, 791-791.	3.5	2
475	Editorial: A big "thank you" to Barbara. Biotechnology Journal, 2010, 5, 1247-1247.	3.5	1
476	Extracellular proteome of <i>Aspergillus terreus</i> grown on different carbon sources. Current Genetics, 2010, 56, 369-382.	1.7	29
477	Fermentative production of branched chain amino acids: a focus on metabolic engineering. Applied Microbiology and Biotechnology, 2010, 85, 491-506.	3.6	115
478	Isolation and genetic manipulation of the antibiotic down-regulatory gene, wblA ortholog for doxorubicin-producing <i>Streptomyces</i> strain improvement. Applied Microbiology and Biotechnology, 2010, 86, 1145-1153.	3.6	45
479	Development of sucrose-utilizing <i>Escherichia coli</i> K-12 strain by cloning β -fructofuranosidases and its application for L-threonine production. Applied Microbiology and Biotechnology, 2010, 88, 905-913.	3.6	46
480	Proteome-based physiological analysis of the metabolically engineered succinic acid producer <i>Mannheimia succiniciproducens</i> LPK7. Bioprocess and Biosystems Engineering, 2010, 33, 97-107.	3.4	16
481	Ho Nam Chang Special Issue: Life of a great biochemical engineer and his life-time contribution to high cell density culture. Bioprocess and Biosystems Engineering, 2010, 33, 1-4.	3.4	0
482	Kinetic study on succinic acid and acetic acid formation during continuous cultures of <i>Anaerobiospirillum succiniciproducens</i> grown on glycerol. Bioprocess and Biosystems Engineering, 2010, 33, 465-471.	3.4	36
483	Acetate accumulation through alternative metabolic pathways in <i>ackA</i> Δ <i>pta</i> Δ <i>poxB</i> Δ triple mutant in <i>E. coli</i> B (BL21). Biotechnology Letters, 2010, 32, 1897-1903.	2.2	35
484	Carbon sources-dependent carotenoid production in metabolically engineered <i>Escherichia coli</i> . World Journal of Microbiology and Biotechnology, 2010, 26, 2231-2239.	3.6	21
485	Prediction of novel synthetic pathways for the production of desired chemicals. BMC Systems Biology, 2010, 4, 35.	3.0	121
486	Development of a Glucose Biosensor Using Advanced Electrode Modified by Nanohybrid Composing Chemically Modified Graphene and Ionic Liquid. Electroanalysis, 2010, 22, 1223-1228.	2.9	83

#	ARTICLE	IF	CITATIONS
487	Large-Scale Highly Ordered Chitosan-Core Au-Shell Nanopatterns with Plasmonic Tunability: A Top-Down Approach to Fabricate Core-Shell Nanostructures. <i>Advanced Functional Materials</i> , 2010, 20, 4273-4278.	14.9	11
488	In Vivo Synthesis of Diverse Metal Nanoparticles by Recombinant <i>Escherichia coli</i> . <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7019-7024.	13.8	138
489	Biosynthesis of polylactic acid and its copolymers using evolved propionate CoA transferase and PHA synthase. <i>Biotechnology and Bioengineering</i> , 2010, 105, 150-160.	3.3	159
490	Metabolic engineering of <i>Escherichia coli</i> for the production of polylactic acid and its copolymers. <i>Biotechnology and Bioengineering</i> , 2010, 105, 161-171.	3.3	272
491	Biotechnological applications of microbial proteomes. <i>Journal of Biotechnology</i> , 2010, 145, 341-349.	3.8	17
492	Immobilization of genetically engineered fusion proteins on gold-decorated carbon nanotube hybrid films for the fabrication of biosensor platforms. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 453-458.	9.4	25
493	Metabolite-centric approaches for the discovery of antibacterials using genome-scale metabolic networks. <i>Metabolic Engineering</i> , 2010, 12, 105-111.	7.0	62
494	Data integration and analysis of biological networks. <i>Current Opinion in Biotechnology</i> , 2010, 21, 78-84.	6.6	44
495	Fabrication of single-walled carbon nanotubes dotted with Au nanocrystals: Potential DNA delivery nanocarriers. <i>Carbon</i> , 2010, 48, 1070-1078.	10.3	17
496	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, no-no.	1.8	21
497	<i>In Silico</i> Identification of Gene Amplification Targets for Improvement of Lycopene Production. <i>Applied and Environmental Microbiology</i> , 2010, 76, 3097-3105.	3.1	247
498	<i>Mannheimia succiniciproducens</i> Phosphotransferase System for Sucrose Utilization. <i>Applied and Environmental Microbiology</i> , 2010, 76, 1699-1703.	3.1	15
499	Enhanced Display of Lipase on the <i>Escherichia coli</i> Cell Surface, Based on Transcriptome Analysis. <i>Applied and Environmental Microbiology</i> , 2010, 76, 971-973.	3.1	19
500	Rapid separation of bacteriorhodopsin using a laminar-flow extraction system in a microfluidic device. <i>Biomicrofluidics</i> , 2010, 4, 014103.	2.4	44
501	Integration of Systems Biology with Bioprocess Engineering: L-Threonine Production by Systems Metabolic Engineering of <i>Escherichia Coli</i> . , 2010, 120, 1-19.		10
502	Towards Systems Metabolic Engineering of PHA Producers. <i>Microbiology Monographs</i> , 2010, , 63-84.	0.6	11
503	A charge pumping technique to identify biomolecular charge polarity using a nanogap embedded biotransistor. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	11
504	DNA microarray for the identification of pathogens causing bloodstream infections. <i>Expert Review of Molecular Diagnostics</i> , 2010, 10, 263-268.	3.1	3

#	ARTICLE	IF	CITATIONS
505	Functionalization Effects of Single-Walled Carbon Nanotubes as Templates for the Synthesis of Silica Nanorods and Study of Growing Mechanism of Silica. <i>ACS Nano</i> , 2010, 4, 3933-3942.	14.6	42
506	Double-Gate Nanowire Field Effect Transistor for a Biosensor. <i>Nano Letters</i> , 2010, 10, 2934-2938.	9.1	162
507	Comprehensive study of a detection mechanism and optimization strategies to improve sensitivity in a nanogap-embedded biotransistor. <i>Journal of Applied Physics</i> , 2010, 107, 114705.	2.5	6
508	Genome-scale metabolic network analysis and drug targeting of multi-drug resistant pathogen <i>Acinetobacter baumannii</i> AYE. <i>Molecular BioSystems</i> , 2010, 6, 339-348.	2.9	93
509	Charge pumping technique to analyze the effect of intrinsically retained charges and extrinsically trapped charges in biomolecules by use of a nanogap embedded biotransistor. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	9
510	An underlap field-effect transistor for electrical detection of influenza. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	57
511	The genome-scale metabolic network analysis of <i>Zymomonas mobilis</i> ZM4 explains physiological features and suggests ethanol and succinic acid production strategies. <i>Microbial Cell Factories</i> , 2010, 9, 94.	4.0	79
512	Construction and optimization of synthetic pathways in metabolic engineering. <i>Current Opinion in Microbiology</i> , 2010, 13, 363-370.	5.1	97
513	DNA microarray-based identification of bacterial and fungal pathogens in bloodstream infections. <i>Molecular and Cellular Probes</i> , 2010, 24, 44-52.	2.1	38
514	Label-free optical diagnosis of hepatitis B virus with genetically engineered fusion proteins. <i>Talanta</i> , 2010, 82, 803-809.	5.5	46
515	Solution Chemistry of Self-Assembled Graphene Nanohybrids for High-Performance Flexible Biosensors. <i>ACS Nano</i> , 2010, 4, 2910-2918.	14.6	343
516	Editorial: Systems biology for biotech applications. <i>Biotechnology Journal</i> , 2010, 5, 636-637.	3.5	1
517	Detection of the Most Common Corneal Dystrophies Caused by BIGH3 Gene Point Mutations Using a Multispot Gold-Capped Nanoparticle Array Chip. <i>Analytical Chemistry</i> , 2010, 82, 1349-1357.	6.5	29
518	Microwave-assisted synthesis of highly water-soluble graphene towards electrical DNA sensor. <i>Nanoscale</i> , 2010, 2, 2692.	5.6	56
519	Patterned Multiplex Pathogen DNA Detection by Au Particle-on-Wire SERS Sensor. <i>Nano Letters</i> , 2010, 10, 1189-1193.	9.1	351
520	Prediction of metabolic fluxes by incorporating genomic context and flux-converging pattern analyses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14931-14936.	7.1	48
521	The effect of protectants and pH changes on the cellular growth and succinic acid yield of <i>Mannheimia succiniciproducens</i> LPK7. <i>Journal of Microbiology and Biotechnology</i> , 2010, 20, 1677-80.	2.1	4
522	High energy-charged cell factory for heterologous protein synthesis. <i>Nature Precedings</i> , 2009, , .	0.1	0

#	ARTICLE	IF	CITATIONS
523	Systems Metabolic Engineering of <i>E. coli.</i> , 2009, , 441-453.		2
524	Transcriptome and proteome analyses of adaptive responses to methyl methanesulfonate in <i>Escherichia coli</i> K-12 and <i>ada</i> mutant strains. <i>BMC Microbiology</i> , 2009, 9, 186.	3.3	10
525	Metabolic engineering of microorganisms: general strategies and drug production. <i>Drug Discovery Today</i> , 2009, 14, 78-88.	6.4	121
526	Constraints-based genome-scale metabolic simulation for systems metabolic engineering. <i>Biotechnology Advances</i> , 2009, 27, 979-988.	11.7	105
527	Bio-based production of chemicals and materials. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S2.	2.2	0
528	Label-free electrochemical biosensor in highly conductive carbon nanotube and gold nanocomplexes. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S158-S159.	2.2	0
529	Label-free optical biosensors for the detection of food toxin and pathogen using multi-spot nanoparticle array chip and fusion proteins. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S159.	2.2	1
530	Metabolic engineering of <i>Escherichia coli</i> for the production of large spider dragline silk proteins. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S166-S167.	2.2	0
531	Improved prediction of metabolic fluxes through genomic context analysis across organisms and stoichiometric analysis of carbon fluxes. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S173.	2.2	0
532	Metabolic engineering of <i>Escherichia coli</i> for the production of l-isoleucine. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, S173-S174.	2.2	1
533	Characterizing <i>Escherichia coli</i> DH5 α growth and metabolism in a complex medium using genome-scale flux analysis. <i>Biotechnology and Bioengineering</i> , 2009, 102, 923-934.	3.3	51
534	Metabolic engineering of <i>Escherichia coli</i> for the production of putrescine: A four carbon diamine. <i>Biotechnology and Bioengineering</i> , 2009, 104, 651-662.	3.3	217
535	Multiobjective flux balancing using the NISE method for metabolic network analysis. <i>Biotechnology Progress</i> , 2009, 25, 999-1008.	2.6	30
536	Microarray of DNA-protein complexes on poly-3-hydroxybutyrate surface for pathogen detection. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 1639-1647.	3.7	13
537	Nanogap Field-Effect Transistor Biosensors for Electrical Detection of Avian Influenza. <i>Small</i> , 2009, 5, 2407-2412.	10.0	121
538	What's in a name?. <i>Nature Biotechnology</i> , 2009, 27, 1071-1073.	17.5	49
539	Development of a whole-cell biosensor by cell surface display of a gold-binding polypeptide on the gold surface. <i>FEMS Microbiology Letters</i> , 2009, 293, 141-147.	1.8	19
540	Development of the electrochemical biosensor for organophosphate chemicals using CNT/ionic liquid bucky gel electrode. <i>Electrochemistry Communications</i> , 2009, 11, 672-675.	4.7	61

#	ARTICLE	IF	CITATIONS
541	In silico analysis of the effects of H ₂ and CO ₂ on the metabolism of a capnophilic bacterium <i>Mannheimia succiniciproducens</i> . <i>Journal of Biotechnology</i> , 2009, 144, 184-189.	3.8	11
542	A putative secreted solute binding protein, SCO6569 is a possible AfsR2-dependent down-regulator of actinorhodin biosynthesis in <i>Streptomyces coelicolor</i> . <i>Process Biochemistry</i> , 2009, 44, 373-377.	3.7	12
543	Free-flow isoelectric focusing microfluidic device with glass coating by sol-gel methods. <i>Current Applied Physics</i> , 2009, 9, e66-e70.	2.4	11
544	Editorial: Cell and protein manipulation. <i>Biotechnology Journal</i> , 2009, 4, 151-151.	3.5	0
545	Metabolic engineering of <i>Clostridium acetobutylicum</i> M5 for highly selective butanol production. <i>Biotechnology Journal</i> , 2009, 4, 1432-1440.	3.5	117
546	Editorial: A Korean vision on Green Growth. <i>Biotechnology Journal</i> , 2009, 4, 1094-1094.	3.5	0
547	Editorial: Methods and Advances in Biotech. <i>Biotechnology Journal</i> , 2009, 4, 1230-1231.	3.5	0
548	Editorial: Biochips and nanobiotechnology. <i>Biotechnology Journal</i> , 2009, 4, 1502-1503.	3.5	0
549	The Effect of Network Density on the DNA-Sensing Performance of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21566-21571.	3.1	7
550	A self-assembled fusion protein-based surface plasmon resonance biosensor for rapid diagnosis of severe acute respiratory syndrome. <i>Talanta</i> , 2009, 79, 295-301.	5.5	84
551	High-throughput identification of clinically important bacterial pathogens using DNA microarray. <i>Molecular and Cellular Probes</i> , 2009, 23, 171-177.	2.1	20
552	A biomolecular detection method based on charge pumping in a nanogap embedded field-effect-transistor biosensor. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	30
553	A well-ordered flower-like gold nanostructure for integrated sensors via surface-enhanced Raman scattering. <i>Nanotechnology</i> , 2009, 20, 235302.	2.6	67
554	SYSTEMS BIOTECHNOLOGY. , 2009, , .		1
555	Spore Display Using <i>Bacillus thuringiensis</i> Exosporium Protein InhA. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 495-501.	2.1	14
556	Functional Expression of SAV3818, a Putative TetR-Family Transcriptional Regulatory Gene from <i>Streptomyces avermitilis</i> , Stimulates Antibiotic Production in <i>Streptomyces</i> Species. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 136-139.	2.1	22
557	Optimization and Scale-Up of Succinic Acid Production by <i>Mannheimia succiniciproducens</i> LPK7. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 167-171.	2.1	28
558	Continuous Production of Succinic Acid Using an External Membrane Cell Recycle System. <i>Journal of Microbiology and Biotechnology</i> , 2009, 19, 1369-1373.	2.1	33

#	ARTICLE	IF	CITATIONS
559	Elucidation of Multifaceted Evolutionary Processes of Microorganisms by Comparative Genome-Based Analysis. Journal of Microbiology and Biotechnology, 2009, 19, 1301-5.	2.1	31
560	Kinetic Study of Organic Acid Formations and Growth of Anaerobiospirillum succiniciproducens During Continuous Cultures. Journal of Microbiology and Biotechnology, 2009, 19, 1379-84.	2.1	10
561	Potential Application of the Recombinant Escherichia coli-Synthesized Heme as a Bioavailable Iron Source. Journal of Microbiology and Biotechnology, 2009, , .	2.1	4
562	Applications of DNA microarray in disease diagnostics. Journal of Microbiology and Biotechnology, 2009, 19, 635-46.	2.1	48
563	Systems biotechnology. Genome Informatics, 2009, 23, 214-6.	0.4	1
564	Towards systems metabolic engineering of microorganisms for amino acid production. Current Opinion in Biotechnology, 2008, 19, 454-460.	6.6	163
565	From genome sequence to integrated bioprocess for succinic acid production by Mannheimia succiniciproducens. Applied Microbiology and Biotechnology, 2008, 79, 11-22.	3.6	43
566	Development of chemically defined medium for Mannheimia succiniciproducens based on its genome sequence. Applied Microbiology and Biotechnology, 2008, 79, 263-272.	3.6	63
567	Biosynthesis of enantiopure (S)-3-hydroxybutyric acid in metabolically engineered Escherichia coli. Applied Microbiology and Biotechnology, 2008, 79, 633-641.	3.6	38
568	Genome-scale reconstruction and in silico analysis of the Clostridium acetobutylicum ATCC 824 metabolic network. Applied Microbiology and Biotechnology, 2008, 80, 849-862.	3.6	161
569	Partial oxidation of n-butane over ceria-promoted nickel/calcium hydroxyapatite. Korean Journal of Chemical Engineering, 2008, 25, 1309-1315.	2.7	5
570	Comparison of the extracellular proteomes of <i>Escherichia coli</i> B and K12 strains during high cell density cultivation. Proteomics, 2008, 8, 2089-2103.	2.2	91
571	Doping-Free Nanoscale Complementary Carbon Nanotube Field-Effect Transistors with DNA-Templated Molecular Lithography. Small, 2008, 4, 1959-1963.	10.0	2
572	Development of a fully integrated microfluidic system for sensing infectious viral disease. Electrophoresis, 2008, 29, 2960-2969.	2.4	18
573	Proteome-based identification of fusion partner for high-level extracellular production of recombinant proteins in <i>Escherichia coli</i> . Biotechnology and Bioengineering, 2008, 101, 587-601.	3.3	82
574	Fermentative butanol production by clostridia. Biotechnology and Bioengineering, 2008, 101, 209-228.	3.3	909
575	Metabolic engineering of Escherichia coli for the production of malic acid. Biochemical Engineering Journal, 2008, 40, 312-320.	3.6	115
576	Characterization of active sites for methane decomposition on carbon black through acetylene chemisorption. Carbon, 2008, 46, 342-348.	10.3	47

#	ARTICLE	IF	CITATIONS
577	Catalytic characteristics of specialty carbon blacks in decomposition of methane for hydrogen production. Carbon, 2008, 46, 1978-1986.	10.3	54
578	Removal of bovine serum albumin using solid-phase extraction with in-situ polymerized stationary phase in a microfluidic device. Journal of Chromatography A, 2008, 1187, 11-17.	3.7	16
579	Advanced cleanup process of the free-flow microfluidic device for protein analysis. Ultramicroscopy, 2008, 108, 1365-1370.	1.9	10
580	Modeling of batch fermentation kinetics for succinic acid production by Mannheimia succiniciproducens. Biochemical Engineering Journal, 2008, 40, 107-115.	3.6	86
581	Metabolic flux analysis and metabolic engineering of microorganisms. Molecular BioSystems, 2008, 4, 113-120.	2.9	141
582	Strategies for systems-level metabolic engineering. Biotechnology Journal, 2008, 3, 612-623.	3.5	59
583	Bio-Vision 2016: The second national framework plan for biotechnology promotion in Korea. Biotechnology Journal, 2008, 3, 591-600.	3.5	7
584	Editorial: Biotechnology in Korea – the next generation growth engine. Biotechnology Journal, 2008, 3, 562-563.	3.5	0
585	Hand in hand for a global outreach. Biotechnology Journal, 2008, 3, 565-565.	3.5	0
586	Development of a markerless gene knock-out system for <i>Mannheimia succiniciproducens</i> using a temperature-sensitive plasmid. FEMS Microbiology Letters, 2008, 278, 78-85.	1.8	61
587	Characterization of the Arc two-component signal transduction system of the capnophilic rumen bacterium <i>Mannheimia succiniciproducens</i> . FEMS Microbiology Letters, 2008, 284, 109-119.	1.8	18
588	New time-scale criteria for model simplification of bio-reaction systems. BMC Bioinformatics, 2008, 9, 338.	2.6	13
589	Microbial small heat shock proteins and their use in biotechnology. Biotechnology Advances, 2008, 26, 591-609.	11.7	54
590	Application of systems biology for bioprocess development. Trends in Biotechnology, 2008, 26, 404-412.	9.3	169
591	Comparative proteomic analysis of four biotechnologically important <i>Escherichia coli</i> strains for rational host strain selection. Journal of Biotechnology, 2008, 136, S48.	3.8	0
592	Adaptive response to methylation damage in <i>Escherichia coli</i> studied by transcriptome and proteome analyses. Journal of Biotechnology, 2008, 136, S59.	3.8	0
593	A Physiology Study of <i>Escherichia coli</i> Overexpressing Phosphoenolpyruvate Carboxykinase. Bioscience, Biotechnology and Biochemistry, 2008, 72, 1138-1141.	1.3	27
594	Simple micropatterning of biomolecules on a diazoketo-functionalized photoresist. Journal of Materials Chemistry, 2008, 18, 703.	6.7	24

#	ARTICLE	IF	CITATIONS
595	Metabolic Control Analysis of Complex Biological Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9823-9827.	0.4	0
596	Diagnosis of Pathogens Using DNA Microarray. Recent Patents on Biotechnology, 2008, 2, 124-129.	0.8	17
597	Evaluation of Sensitivity and Specificity of DNA Chip for Diagnosis of Granular Corneal Dystrophy II. Journal of Korean Ophthalmological Society, 2008, 49, 1220.	0.2	0
598	Proteome-Level Responses of <i>Escherichia coli</i> to Long-Chain Fatty Acids and Use of Fatty Acid Inducible Promoter in Protein Production. Journal of Biomedicine and Biotechnology, 2008, 2008, 1-12.	3.0	11
599	Succinic Acid Production by <i>Anaerobiospirillum succiniciproducens</i> ATCC 29305 Growing on Galactose, Galactose/Glucose, and Galactose/Lactose. Journal of Microbiology and Biotechnology, 2008, 18, 1792-1796.	2.1	33
600	Succinic acid production from continuous fermentation process using <i>Mannheimia succiniciproducens</i> LPK7. Journal of Microbiology and Biotechnology, 2008, 18, 908-12.	2.1	21
601	Systems Metabolic Engineering. , 2008, , 196-196.		1
602	Metabolite essentiality elucidates robustness of <i>Escherichia coli</i> metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13638-13642.	7.1	122
603	EcoProDB: the <i>Escherichia coli</i> protein database. Bioinformatics, 2007, 23, 2501-2503.	4.1	16
604	Identification of the Cadmium-Inducible <i>Hansenula polymorpha</i> SEO1 Gene Promoter by Transcriptome Analysis and Its Application to Whole-Cell Heavy-Metal Detection Systems. Applied and Environmental Microbiology, 2007, 73, 5990-6000.	3.1	52
605	Development of a DNA chip for the diagnosis of the most common corneal dystrophies caused by mutations in the IGH3 gene. British Journal of Ophthalmology, 2007, 91, 722-727.	3.9	12
606	A Simple DNA Chip for Diagnosis of Most Common Corneal Dystrophies Caused by IGH3 Gene Mutations. , 2007, , .		1
607	Metabolic engineering of <i>Escherichia coli</i> for the production of L-valine based on transcriptome analysis and in silico gene knockout simulation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7797-7802.	7.1	514
608	Proteomic Analysis of a Response to Long-Chain Fatty Acid in <i>Escherichia coli</i> and Its Application. , 2007, , .		0
609	Construction and Characterization of Shuttle Vectors for Succinic Acid-Producing Rumen Bacteria. Applied and Environmental Microbiology, 2007, 73, 5411-5420.	3.1	26
610	Patterning of biomolecules on a biocompatible nonchemically amplified resist. , 2007, , .		0
611	Incorporating metabolic flux ratios into constraint-based flux analysis by using artificial metabolites and converging ratio determinants. Journal of Biotechnology, 2007, 129, 696-705.	3.8	17
612	Recovery of succinic acid produced by fermentation of a metabolically engineered <i>Mannheimia succiniciproducens</i> strain. Journal of Biotechnology, 2007, 132, 445-452.	3.8	71

#	ARTICLE	IF	CITATIONS
613	Adsorption of Pyruvic and Succinic Acid by Amine-Functionalized SBA-15 for the Purification of Succinic Acid from Fermentation Broth. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13076-13086.	3.1	54
614	Systems metabolic engineering of <i>Escherichia coli</i> for L-threonine production. <i>Molecular Systems Biology</i> , 2007, 3, 149.	7.2	391
615	Genome-scale analysis of <i>Mannheimia succiniciproducens</i> metabolism. <i>Biotechnology and Bioengineering</i> , 2007, 97, 657-671.	3.3	92
616	Effects of dissolved CO ₂ levels on the growth of <i>Mannheimia succiniciproducens</i> and succinic acid production. <i>Biotechnology and Bioengineering</i> , 2007, 98, 1296-1304.	3.3	104
617	Microfluidic cell disruption system employing a magnetically actuated diaphragm. <i>Electrophoresis</i> , 2007, 28, 4748-4757.	2.4	26
618	Kinetic study for the extraction of succinic acid with TOA in fermentation broth; effects of pH, salt and contaminated acid. <i>Biochemical Engineering Journal</i> , 2007, 36, 8-13.	3.6	59
619	Transcript and protein level analyses of the interactions among PhoB, PhoR, PhoU and CreC in response to phosphate starvation in <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2007, 277, 254-259.	1.8	23
620	Expanding the metabolic engineering toolbox: more options to engineer cells. <i>Trends in Biotechnology</i> , 2007, 25, 132-137.	9.3	200
621	Optimal conditions for partial oxidation of propane over ceria-promoted nickel/calcium hydroxyapatite. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 226-232.	2.7	6
622	Protein Nanopatterns and Biosensors Using Gold Binding Polypeptide as a Fusion Partner. <i>Analytical Chemistry</i> , 2006, 78, 7197-7205.	6.5	117
623	DNA microarray-based detection of nosocomial pathogenic <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter baumannii</i> . <i>Molecular and Cellular Probes</i> , 2006, 20, 42-50.	2.1	23
624	High-speed fabrication of patterned colloidal photonic structures in centrifugal microfluidic chips. , 2006, , .		0
625	The proteome of <i>Mannheimia succiniciproducens</i> , a capnophilic rumen bacterium. <i>Proteomics</i> , 2006, 6, 3550-3566.	2.2	45
626	Novel gene members in the Pho regulon of <i>Escherichia coli</i> . <i>FEMS Microbiology Letters</i> , 2006, 264, 104-109.	1.8	100
627	Deciphering bioplastic production. <i>Nature Biotechnology</i> , 2006, 24, 1227-1229.	17.5	30
628	Production of succinic acid by bacterial fermentation. <i>Enzyme and Microbial Technology</i> , 2006, 39, 352-361.	3.2	669
629	Systems biology as a foundation for genome-scale synthetic biology. <i>Current Opinion in Biotechnology</i> , 2006, 17, 488-492.	6.6	109
630	Colored Petri net modeling and simulation of signal transduction pathways. <i>Metabolic Engineering</i> , 2006, 8, 112-122.	7.0	44

#	ARTICLE	IF	CITATIONS
631	Optimal Production of Poly- γ -glutamic Acid by Metabolically Engineered <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 2006, 28, 1241-1246.	2.2	38
632	Solution behavior of synthetic silk peptides and modified recombinant silk proteins. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 193-203.	2.3	38
633	Effective purification of succinic acid from fermentation broth produced by <i>Mannheimia succiniciproducens</i> . <i>Process Biochemistry</i> , 2006, 41, 1461-1465.	3.7	95
634	Production of recombinant proteins by high cell density culture of <i>Escherichia coli</i> . <i>Chemical Engineering Science</i> , 2006, 61, 876-885.	3.8	255
635	Polyhydroxyalkanoate chip for the specific immobilization of recombinant proteins and its applications in immunodiagnostics. <i>Biotechnology and Bioprocess Engineering</i> , 2006, 11, 173.	2.6	14
636	Effects of ceria in CO ₂ reforming of methane over Ni/calcium hydroxyapatite. <i>Korean Journal of Chemical Engineering</i> , 2006, 23, 356-361.	2.7	13
637	Simple Patterning of Cells on a Biocompatible Nonchemically Amplified Resist. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1442-1445.	3.9	10
638	Commentaries & Analyses “WHITE BIOTECHNOLOGY”. <i>Asia Pacific Biotech News</i> , 2006, 10, 559-563.	0.0	4
639	WebCell: a web-based environment for kinetic modeling and dynamic simulation of cellular networks. <i>Bioinformatics</i> , 2006, 22, 1150-1151.	4.1	30
640	Korean Systems Biology and Biotechnology Research. <i>Asia Pacific Biotech News</i> , 2006, 10, 967-977.	0.0	0
641	Genome-Based Metabolic Engineering of <i>Mannheimia succiniciproducens</i> for Succinic Acid Production. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1939-1948.	3.1	241
642	WebCell: An Integrated Environment For Modeling and Simulation of Cellular Networks Online. , 2006, , .		0
643	Determination of the Metabolic Networks Fluxes Using Carbon Isotopomer Labeling and Metabolic Flux Analysis. , 2006, , .		0
644	The <i>Escherichia coli</i> Proteome: Past, Present, and Future Prospects. <i>Microbiology and Molecular Biology Reviews</i> , 2006, 70, 362-439.	6.6	147
645	Systems Biological Approach for the Production of Various Polyhydroxyalkanoates by Metabolically Engineered <i>Escherichia coli</i> . <i>Macromolecular Symposia</i> , 2005, 224, 1-10.	0.7	13
646	Systems Biotechnology: a New Paradigm in Biotechnology Development. , 2005, , 155-177.		1
647	Complementary identification of multiple flux distributions and multiple metabolic pathways. <i>Metabolic Engineering</i> , 2005, 7, 182-200.	7.0	38
648	Engineering of <i>Escherichia coli</i> fatty acid metabolism for the production of polyhydroxyalkanoates. <i>Enzyme and Microbial Technology</i> , 2005, 36, 579-588.	3.2	57

#	ARTICLE	IF	CITATIONS
649	Systems biotechnology for strain improvement. Trends in Biotechnology, 2005, 23, 349-358.	9.3	285
650	Display of lipase on the cell surface of <i>Escherichia coli</i> using OprF as an anchor and its application to enantioselective resolution in organic solvent. Biotechnology and Bioengineering, 2005, 90, 223-230.	3.3	41
651	Micropatterning proteins on polyhydroxyalkanoate substrates by using the substrate binding domain as a fusion partner. Biotechnology and Bioengineering, 2005, 92, 160-165.	3.3	17
652	Global physiological understanding and metabolic engineering of microorganisms based on omics studies. Applied Microbiology and Biotechnology, 2005, 68, 567-579.	3.6	84
653	Systems-level analysis of genome-scale in silico metabolic models using MetaFluxNet. Biotechnology and Bioprocess Engineering, 2005, 10, 425-431.	2.6	33
654	MFAML: a standard data structure for representing and exchanging metabolic flux models. Bioinformatics, 2005, 21, 3329-3330.	4.1	12
655	Cell Surface Display of Lipase in <i>Pseudomonas putida</i> KT2442 Using OprF as an Anchoring Motif and Its Biocatalytic Applications. Applied and Environmental Microbiology, 2005, 71, 8581-8586.	3.1	45
656	Secretory Production of Therapeutic Proteins in <i>Escherichia coli</i> , 2005, 308, 031-042.		5
657	Graph-theoretic approach for identifying catalytic or metabolic pathways. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2005, 28, 1021-1037.	1.1	11
658	Metabolic Engineering of <i>Escherichia coli</i> for Enhanced Production of Succinic Acid, Based on Genome Comparison and In Silico Gene Knockout Simulation. Applied and Environmental Microbiology, 2005, 71, 7880-7887.	3.1	282
659	Selective Immobilization of Fusion Proteins on Poly(hydroxyalkanoate) Microbeads. Analytical Chemistry, 2005, 77, 5755-5759.	6.5	42
660	Enhanced Proteome Profiling by Inhibiting Proteolysis with Small Heat Shock Proteins. Journal of Proteome Research, 2005, 4, 2429-2434.	3.7	27
661	Multi-product trade-off analysis of <i>E. coli</i> by multiobjective flux balance analysis. Computer Aided Chemical Engineering, 2004, 18, 1099-1104.	0.5	2
662	BioSilico: an integrated metabolic database system. Bioinformatics, 2004, 20, 3270-3272.	4.1	28
663	The genome sequence of the capnophilic rumen bacterium <i>Mannheimia succiniciproducens</i> . Nature Biotechnology, 2004, 22, 1275-1281.	17.5	184
664	Biosynthesis of Poly(3-hydroxybutyrate-co-3-hydroxyalkanoates) by Metabolically Engineered <i>Escherichia coli</i> Strains. Applied Biochemistry and Biotechnology, 2004, 114, 335-346.	2.9	27
665	Biosynthesis of (R)-3-Hydroxyalkanoic Acids by Metabolically Engineered <i>Escherichia coli</i> . Applied Biochemistry and Biotechnology, 2004, 114, 373-380.	2.9	25
666	High cell density fed-batch cultivation of <i>Escherichia coli</i> using exponential feeding combined with pH-stat. Bioprocess and Biosystems Engineering, 2004, 26, 147-150.	3.4	99

#	ARTICLE	IF	CITATIONS
667	Development of DNA microarray for pathogen detection. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 93-99.	2.6	28
668	Microcontact printing of biotin for selective immobilization of streptavidin-fused proteins and SPR analysis. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 137-142.	2.6	21
669	High level production of supra molecular weight poly (3-hydroxybutyrate) by metabolically engineered <i>Escherichia coli</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 196-200.	2.6	45
670	Enhanced production of succinic acid by metabolically engineered <i>Escherichia coli</i> with amplified activities of malic enzyme and fumarase. <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 252-255.	2.6	18
671	Micro total analysis system (μ TAS) in biotechnology. <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 289-299.	3.6	206
672	Secretory and extracellular production of recombinant proteins using <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 625-635.	3.6	512
673	Phylogenetic analysis based on genome-scale metabolic pathway reaction content. <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 203-10.	3.6	37
674	New fadB homologous enzymes and their use in enhanced biosynthesis of medium-chain-length polyhydroxyalkanoates in fadB mutant <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004, 86, 681-686.	3.3	21
675	Roles and applications of small heat shock proteins in the production of recombinant proteins in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2004, 88, 426-436.	3.3	47
676	Fermentative Production of Chemicals That Can Be Used for Polymer Synthesis. <i>Macromolecular Bioscience</i> , 2004, 4, 157-164.	4.1	91
677	In silico analysis of lactate producing metabolic network in <i>Lactococcus lactis</i> . <i>Enzyme and Microbial Technology</i> , 2004, 35, 654-662.	3.2	6
678	Regulatory analysis of amino acid synthesis pathway in <i>Escherichia coli</i> : aspartate family. <i>Enzyme and Microbial Technology</i> , 2004, 35, 694-706.	3.2	11
679	Enantioselective resolution of racemic compounds by cell surface displayed lipase. <i>Enzyme and Microbial Technology</i> , 2004, 35, 429-436.	3.2	25
680	Batch and continuous fermentation of succinic acid from wood hydrolysate by <i>Mannheimia succiniciproducens</i> MBEL55E. <i>Enzyme and Microbial Technology</i> , 2004, 35, 648-653.	3.2	158
681	Microarrays of peptides elevated on the protein layer for efficient protein kinase assay. <i>Analytical Biochemistry</i> , 2004, 330, 311-316.	2.4	21
682	Micropatterns of Spores Displaying Heterologous Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 10512-10513.	13.7	40
683	Combined Deterministic~Stochastic Approach for Pharmacokinetic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 1133-1143.	3.7	0
684	Covalent Attachment and Hybridization of DNA Oligonucleotides on Patterned Single-Walled Carbon Nanotube Films. <i>Langmuir</i> , 2004, 20, 8886-8891.	3.5	96

#	ARTICLE	IF	CITATIONS
685	Constitutive production of human leptin by fed-batch culture of recombinant rpoS ⁺ Escherichia coli. Protein Expression and Purification, 2004, 36, 150-156.	1.3	30
686	Display of Bacterial Lipase on the Escherichia coli Cell Surface by Using FadL as an Anchoring Motif and Use of the Enzyme in Enantioselective Biocatalysis. Applied and Environmental Microbiology, 2004, 70, 5074-5080.	3.1	57
687	Biosynthesis of (R)-3-Hydroxyalkanoic Acids by Metabolically Engineered Escherichia coli. , 2004, , 373-379.		5
688	Biosynthesis of Poly(3-hydroxybutyrate-co-3-hydroxyalkanoates) by Metabolically Engineered Escherichia coli Strains. , 2004, , 335-346.		3
689	Biosynthesis of poly(3-hydroxybutyrate- co-3-hydroxyalkanoates) by metabolically engineered Escherichia coli strains. Applied Biochemistry and Biotechnology, 2004, 113-116, 335-46.	2.9	4
690	Biological conversion of wood hydrolysate to succinic acid by Anaerobiospirillum succiniciproducens. Biotechnology Letters, 2003, 25, 111-114.	2.2	108
691	Batch and continuous cultures of Mannheimia succiniciproducens MBEL55E for the production of succinic acid from whey and corn steep liquor. Bioprocess and Biosystems Engineering, 2003, 26, 63-67.	3.4	93
692	Microbial cell-surface display. Trends in Biotechnology, 2003, 21, 45-52.	9.3	445
693	Combined transcriptome and proteome analysis of Escherichia coli during high cell density culture. Biotechnology and Bioengineering, 2003, 81, 753-767.	3.3	161
694	In silico prediction and validation of the importance of the Entner-Doudoroff pathway in poly(3-hydroxybutyrate) production by metabolically engineered Escherichia coli. Biotechnology and Bioengineering, 2003, 83, 854-863.	3.3	42
695	Organizational and Mutational Analysis of a Complete FR-008/Candididin Gene Cluster Encoding a Structurally Related Polyene Complex. Chemistry and Biology, 2003, 10, 1065-1076.	6.0	127
696	Enrichment of specific monomer in medium-chain-length poly(3-hydroxyalkanoates) by amplification of fadD and fadE genes in recombinant Escherichia coli. Enzyme and Microbial Technology, 2003, 33, 62-70.	3.2	22
697	Proteome profiling and its use in metabolic and cellular engineering. Proteomics, 2003, 3, 2317-2324.	2.2	23
698	Enhanced Production of Recombinant Proteins in Escherichia coli by Filamentation Suppression. Applied and Environmental Microbiology, 2003, 69, 1295-1298.	3.1	38
699	Engineering Escherichia coli for Increased Productivity of Serine-Rich Proteins Based on Proteome Profiling. Applied and Environmental Microbiology, 2003, 69, 5772-5781.	3.1	53
700	Identification and Characterization of a New Enoyl Coenzyme A Hydratase Involved in Biosynthesis of Medium-Chain-Length Polyhydroxyalkanoates in Recombinant Escherichia coli. Journal of Bacteriology, 2003, 185, 5391-5397.	2.2	93
701	MetaFluxNet: the management of metabolic reaction information and quantitative metabolic flux analysis. Bioinformatics, 2003, 19, 2144-2146.	4.1	121
702	Enhanced Production of Insulin-Like Growth Factor I Fusion Protein in Escherichia coli by Coexpression of the Down-Regulated Genes Identified by Transcriptome Profiling. Applied and Environmental Microbiology, 2003, 69, 4737-4742.	3.1	70

#	ARTICLE	IF	CITATIONS
703	Metabolic Engineering of Escherichia coli for Production of Enantiomerically Pure (R) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 742	3.1	75
704	MetaFluxNet, a program package for metabolic pathway construction and analysis, and its use in large-scale metabolic flux analysis of Escherichia coli. Genome Informatics, 2003, 14, 23-33.	0.4	13
705	Nonlinear partial differential equations and applications: Gaussian curvature and the equilibrium among bilayer cylinders, spheres, and discs. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 15318-15322.	7.1	125
706	Excretion of Human $\hat{1}^2$ -Endorphin into Culture Medium by Using Outer Membrane Protein F as a Fusion Partner in Recombinant Escherichia coli. Applied and Environmental Microbiology, 2002, 68, 4979-4985.	3.1	47
707	Pilot scale production of poly(3-hydroxybutyrate-co-3-hydroxy-valerate) by fed-batch culture of recombinant Escherichia coli. Biotechnology and Bioprocess Engineering, 2002, 7, 371-374.	2.6	27
708	Cloning and characterization of Mannheimia succiniciproducens MBEL55E phosphoenolpyruvate carboxykinase (pckA) gene. Biotechnology and Bioprocess Engineering, 2002, 7, 95-99.	2.6	5
709	Importance of redox balance on the production of succinic acid by metabolically engineered Escherichia coli. Applied Microbiology and Biotechnology, 2002, 58, 286-290.	3.6	57
710	Isolation and characterization of a new succinic acid-producing bacterium, Mannheimia succiniciproducens MBEL55E, from bovine rumen. Applied Microbiology and Biotechnology, 2002, 58, 663-668.	3.6	270
711	Metabolic engineering of Escherichia coli for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers. FEMS Microbiology Letters, 2002, 214, 217-222.	1.8	52
712	Title is missing!. Biotechnology Letters, 2002, 24, 185-189.	2.2	45
713	In silico metabolic pathway analysis and design: succinic acid production by metabolically engineered Escherichia coli as an example. Genome Informatics, 2002, 13, 214-23.	0.4	22
714	Metabolic engineering of Escherichia coli for the production of medium-chain-length polyhydroxyalkanoates rich in specific monomers. FEMS Microbiology Letters, 2002, 214, 217-222.	1.8	0
715	Production of Microbial Polyester by Fermentation of Recombinant Microorganisms. Advances in Biochemical Engineering/Biotechnology, 2001, 71, 183-207.	1.1	15
716	Secretory Production of Human Granulocyte Colony-Stimulating Factor in Escherichia coli. Protein Expression and Purification, 2001, 23, 311-318.	1.3	45
717	Production of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) by Metabolically Engineered Escherichia coli Strains. Biomacromolecules, 2001, 2, 248-254.	5.4	54
718	Polyhydroxyalkanoate Production by Recombinant Escherichia coli: New Genes and New Strains. ACS Symposium Series, 2001, , 77-88.	0.5	0
719	Preparation of Optically Active $\hat{1}^2$ -Amino Acids from Microbial Polyester Polyhydroxyalkanoates. Journal of Chemical Research, 2001, 2001, 498-499.	1.3	13
720	Industrial scale production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). Applied Microbiology and Biotechnology, 2001, 57, 50-55.	3.6	269

#	ARTICLE	IF	CITATIONS
721	High-level secretory production of human granulocyte-colony stimulating factor by fed-batch culture of recombinant <i>Escherichia coli</i> . <i>Bioprocess and Biosystems Engineering</i> , 2001, 24, 249-254.	3.4	28
722	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. <i>Biotechnology and Bioengineering</i> , 2001, 72, 41-48.	3.3	254
723	Metabolic and kinetic analysis of poly(3-hydroxybutyrate) production by recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2001, 74, 70-81.	3.3	61
724	Biosynthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate-co-3-hydroxyhexanoate) by metabolically engineered <i>Escherichia coli</i> strains. <i>Biotechnology and Bioengineering</i> , 2001, 74, 82-87.	3.3	63
725	Metabolic flux analysis for succinic acid production by recombinant <i>Escherichia coli</i> with amplified malic enzyme activity. <i>Biotechnology and Bioengineering</i> , 2001, 74, 89-95.	3.3	94
726	Efficient recovery of γ -poly (glutamic acid) from highly viscous culture broth. <i>Biotechnology and Bioengineering</i> , 2001, 76, 219-223.	3.3	54
727	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 235-240.	2.2	106
728	Proteome Analysis of Metabolically Engineered <i>Escherichia coli</i> Producing Poly(3-Hydroxybutyrate). <i>Journal of Bacteriology</i> , 2001, 183, 301-308.	2.2	120
729	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. , 2001, 72, 41.		1
730	Succinic acid production with reduced by-product formation in the fermentation of <i>Anaerobiospirillum succiniciproducens</i> using glycerol as a carbon source. <i>Biotechnology and Bioengineering</i> , 2001, 72, 41-48.	3.3	4
731	Synthesis of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> . , 2000, 49, 495-503.		26
732	Regulatory effects of cellular nicotinamide nucleotides and enzyme activities on poly(3-hydroxybutyrate) synthesis in recombinant <i>Escherichia coli</i> . , 2000, 52, 707-712.		59
733	Production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) by high-cell-density cultivation of <i>Aeromonas hydrophila</i> . <i>Biotechnology and Bioengineering</i> , 2000, 67, 240-244.	3.3	110
734	Secretory production of human leptin in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2000, 67, 398-407.	3.3	52
735	Production of medium-chain-length polyhydroxyalkanoates by high-cell-density cultivation of <i>Pseudomonas putida</i> under phosphorus limitation. , 2000, 68, 466-470.		124
736	Preparation of alkyl (R)-(β)-3-hydroxybutyrate by acidic alcoholysis of poly-(R)-(β)-3-hydroxybutyrate. <i>Enzyme and Microbial Technology</i> , 2000, 27, 33-36.	3.2	49
737	Process development for production of recombinant human insulin-like growth factor-I in <i>Escherichia coli</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2000, 24, 94-99.	3.0	11
738	Production of poly- β -glutamic acid by fed-batch culture of <i>Bacillus licheniformis</i> . <i>Biotechnology Letters</i> , 2000, 22, 585-588.	2.2	93

#	ARTICLE	IF	CITATIONS
739	Production of Poly(3-Hydroxybutyrate) by Fed-Batch Culture of Recombinant <i>Escherichia coli</i> with a Highly Concentrated Whey Solution. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3624-3627.	3.1	173
740	Economic considerations in the production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by bacterial fermentation. <i>Applied Microbiology and Biotechnology</i> , 2000, 53, 646-649.	3.6	39
741	Batch and continuous cultivation of <i>Anaerobiospirillum succiniciproducens</i> for the production of succinic acid from whey. <i>Applied Microbiology and Biotechnology</i> , 2000, 54, 23-27.	3.6	78
742	Efficient secretory production of alkaline phosphatase by high cell density culture of recombinant <i>Escherichia coli</i> using the <i>Bacillus</i> sp. endoxylanase signal sequence. <i>Applied Microbiology and Biotechnology</i> , 2000, 53, 640-645.	3.6	76
743	Fermentative production of succinic acid from glucose and corn steep liquor by <i>Anaerobiospirillum succiniciproducens</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2000, 5, 379-381.	2.6	65
744	Enhancement of Secretion and Extracellular Stability of Staphylokinase in <i>Bacillus subtilis</i> by <i>wprA</i> Gene Disruption. <i>Applied and Environmental Microbiology</i> , 2000, 66, 476-480.	3.1	34
745	Production of polyhydroxyalkanoates by fermentation of bacteria. <i>Macromolecular Symposia</i> , 2000, 159, 259-266.	0.7	13
746	Secretory production of human leptin in <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 2000, 67, 398.	3.3	2
747	Production of medium-chain-length polyhydroxyalkanoates by high-cell-density cultivation of <i>Pseudomonas putida</i> under phosphorus limitation. <i>Biotechnology and Bioengineering</i> , 2000, 68, 466.	3.3	1
748	High-Level Production of Human Leptin by Fed-Batch Cultivation of Recombinant <i>Escherichia coli</i> and Its Purification. <i>Applied and Environmental Microbiology</i> , 1999, 65, 3027-3032.	3.1	90
749	Removal of Endotoxin during Purification of Poly(3-Hydroxybutyrate) from Gram-Negative Bacteria. <i>Applied and Environmental Microbiology</i> , 1999, 65, 2762-2764.	3.1	97
750	Effects of medium components on the growth of <i>Anaerobiospirillum succiniciproducens</i> and succinic acid production. <i>Process Biochemistry</i> , 1999, 35, 49-55.	3.7	68
751	Succinic acid production by <i>Anaerobiospirillum succiniciproducens</i> : effects of the H ₂ /CO ₂ supply and glucose concentration. <i>Enzyme and Microbial Technology</i> , 1999, 24, 549-554.	3.2	134
752	Production and degradation of polyhydroxyalkanoates in waste environment. <i>Waste Management</i> , 1999, 19, 133-139.	7.4	58
753	Secretory Production of Recombinant Protein by a High Cell Density Culture of a Protease Negative Mutant <i>Escherichia coli</i> Strain. <i>Biotechnology Progress</i> , 1999, 15, 164-167.	2.6	32
754	Physiological characteristics of recombinant <i>Escherichia coli</i> cells displaying poly-His peptides. <i>Biotechnology Letters</i> , 1999, 21, 1091-1094.	2.2	3
755	Factors affecting the economics of polyhydroxyalkanoate production by bacterial fermentation. <i>Applied Microbiology and Biotechnology</i> , 1999, 51, 13-21.	3.6	391
756	Fed-batch culture of <i>Aeromonas hydrophila</i> for the production of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) using two carbon sources. <i>Biotechnology and Bioprocess Engineering</i> , 1999, 4, 195-198.	2.6	7

#	ARTICLE	IF	CITATIONS
757	Control of fed-batch fermentations. <i>Biotechnology Advances</i> , 1999, 17, 29-48.	11.7	236
758	Efficient and economical recovery of poly(3-hydroxybutyrate) from recombinant <i>Escherichia coli</i> by simple digestion with chemicals. <i>Biotechnology and Bioengineering</i> , 1999, 62, 546-553.	3.3	178
759	Chiral compounds from bacterial polyesters: Sugars to plastics to fine chemicals. , 1999, 65, 363-368.		118
760	Recent advances in polyhydroxyalkanoate production by bacterial fermentation: mini-review. <i>International Journal of Biological Macromolecules</i> , 1999, 25, 31-36.	7.5	160
761	Production of Rhamnolipid Biosurfactant by Fed-batch Culture of <i>Pseudomonas aeruginosa</i> Using Glucose as a Sole Carbon Source. <i>Bioscience, Biotechnology and Biochemistry</i> , 1999, 63, 946-947.	1.3	19
762	High-Level Production of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) by Fed-Batch Culture of Recombinant <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 1999, 65, 4363-4368.	3.1	107
763	Display of Polyhistidine Peptides on the <i>Escherichia coli</i> Cell Surface by Using Outer Membrane Protein C as an Anchoring Motif. <i>Applied and Environmental Microbiology</i> , 1999, 65, 5142-5147.	3.1	106
764	Bacteriorhodopsin production by cell recycle culture of <i>Halobacterium halobium</i> . <i>Biotechnology Letters</i> , 1998, 20, 763-765.	2.2	20
765	Title is missing!. , 1998, 12, 815-818.		16
766	Improved Production of a Bioadhesive Precursor Protein by Fed-Batch Cultivation of a Recombinant <i>Escherichia coli</i> with a pLysS Vector. <i>Biotechnology Letters</i> , 1998, 20, 799-803.	2.2	15
767	Development of Recombinant Bacteria for the Degradation of Dibenzothiopheneaa. <i>Annals of the New York Academy of Sciences</i> , 1998, 864, 375-378.	3.8	2
768	High cell density culture of metabolically engineered <i>Escherichia coli</i> for the production of poly(3-hydroxybutyrate) in a defined medium. , 1998, 58, 325-328.		61
769	Effect of post-induction nutrient feeding strategies on the production of bioadhesive protein in <i>Escherichia coli</i> . , 1998, 60, 271-276.		63
770	Poly(3-hydroxybutyrate) production from xylose by recombinant <i>Escherichia coli</i> . <i>Bioprocess and Biosystems Engineering</i> , 1998, 18, 397.	0.5	65
771	Efficient transformation of <i>Klebsiella oxytoca</i> by electroporation. <i>Biotechnology and Bioprocess Engineering</i> , 1998, 3, 48-49.	2.6	11
772	Poly-(3-hydroxybutyrate) production from whey by high-density cultivation of recombinant <i>Escherichia coli</i> . <i>Applied Microbiology and Biotechnology</i> , 1998, 50, 30-33.	3.6	112
773	Effect of fermentation performance on the economics of poly(3-hydroxybutyrate) production by <i>Alcaligenes latus</i> . <i>Polymer Degradation and Stability</i> , 1998, 59, 387-393.	5.8	74
774	Metabolic Engineering of <i>Escherichia Coli</i> for the Production of Polyhydroxyalkanoates. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 337-341.	0.4	1

#	ARTICLE	IF	CITATIONS
775	Cloning of the <i>Alcaligenes latus</i> Polyhydroxyalkanoate Biosynthesis Genes and Use of These Genes for Enhanced Production of Poly(3-hydroxybutyrate) in <i>Escherichia coli</i> . Applied and Environmental Microbiology, 1998, 64, 4897-4903.	3.1	125
776	High cell density culture of metabolically engineered <i>Escherichia coli</i> for the production of poly(3-hydroxybutyrate) in a defined medium. Biotechnology and Bioengineering, 1998, 58, 325-328.	3.3	1
777	Production of Poly(3-Hydroxybutyrate) by Recombinant Bacteria. , 1998, , 463-475.		2
778	<i>E. coli</i> moves into the plastic age. Nature Biotechnology, 1997, 15, 17-18.	17.5	58
779	Poly(3-hydroxybutyrate) production from whey using recombinant <i>Escherichia coli</i> . Biotechnology Letters, 1997, 19, 1033-1035.	2.2	52
780	Fed-batch culture of <i>Escherichia coli</i> W by exponential feeding of sucrose as a carbon source. Biotechnology Letters, 1997, 11, 59-62.	0.5	22
781	Process analysis and economic evaluation for Poly(3-hydroxybutyrate) production by fermentation. Bioprocess and Biosystems Engineering, 1997, 17, 335.	0.5	394
782	Molecular mass of poly[(R)-3-hydroxybutyric acid] produced in a recombinant <i>Escherichia coli</i> . Applied Microbiology and Biotechnology, 1997, 47, 140-143.	3.6	139
783	Characteristics of Poly(3-Hydroxybutyric Acid) Synthesis by Recombinant <i>Escherichia coli</i> . Annals of the New York Academy of Sciences, 1996, 782, 133-142.	3.8	8
784	Plastic bacteria? Progress and prospects for polyhydroxyalkanoate production in bacteria. Trends in Biotechnology, 1996, 14, 431-438.	9.3	437
785	Enhanced production of poly(3-hydroxybutyrate) by filamentation-suppressed recombinant <i>Escherichia coli</i> in a defined medium. Journal of Polymers and the Environment, 1996, 4, 131-134.	0.6	39
786	High cell-density culture of <i>Escherichia coli</i> . Trends in Biotechnology, 1996, 14, 98-105.	9.3	747
787	High cell density cultivation of <i>Pseudomonas oleovorans</i> for the production of poly(3-hydroxyalkanoates). Biotechnology and Bioprocess Engineering, 1996, 1, 51-53.	2.6	5
788	Bacterial polyhydroxyalkanoates. Biotechnology and Bioengineering, 1996, 49, 1-14.	3.3	699
789	Bacterial polyhydroxyalkanoates. Biotechnology and Bioengineering, 1996, 49, 1-14.	3.3	431
790	Synthesis of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by recombinant <i>Escherichia coli</i> . Biotechnology and Bioengineering, 1996, 49, 495-503.	3.3	21
791	Effect of acetic acid on poly-(3-hydroxybutyrate-CO-3-hydroxyvalerate) synthesis in recombinant <i>Escherichia coli</i> . Korean Journal of Chemical Engineering, 1995, 12, 264-268.	2.7	8
792	Size analysis of poly(3-hydroxybutyric acid) granules produced in recombinant <i>Escherichia coli</i> . Biotechnology Letters, 1995, 17, 205-210.	2.2	14

#	ARTICLE	IF	CITATIONS
793	Stimulatory effects of amino acids and oleic acid on poly(3-hydroxybutyric acid) synthesis by recombinant <i>Escherichia coli</i> . <i>Journal of Bioscience and Bioengineering</i> , 1995, 79, 177-180.	0.9	45
794	Production of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> strains: genetic and fermentation studies. <i>Canadian Journal of Microbiology</i> , 1995, 41, 207-215.	1.7	87
795	Production of poly(hydroxyalkanoic acid). <i>Advances in Biochemical Engineering/Biotechnology</i> , 1995, 52, 27-58.	1.1	52
796	Recovery and characterization of poly(3-hydroxybutyric acid) synthesized in <i>Alcaligenes eutrophus</i> and recombinant <i>Escherichia coli</i> . <i>Applied and Environmental Microbiology</i> , 1995, 61, 34-39.	3.1	141
797	Separation of intracellular proteins from <i>Candida utilis</i> using reverse micelles in a spray column. <i>Biotechnology Letters</i> , 1994, 8, 105-110.	0.5	17
798	Production of poly(3-hydroxybutyric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with glucose concentration control. <i>Biotechnology and Bioengineering</i> , 1994, 43, 892-898.	3.3	294
799	Comparison of recombinant <i>Escherichia coli</i> strains for synthesis and accumulation of poly(3-hydroxybutyric acid) and morphological changes. <i>Biotechnology and Bioengineering</i> , 1994, 44, 1337-1347.	3.3	130
800	Production of poly(3-hydroxybutyric-co-3-hydroxyvaleric acid) by fed-batch culture of <i>Alcaligenes eutrophus</i> with substrate control using on-line glucose analyzer. <i>Enzyme and Microbial Technology</i> , 1994, 16, 556-561.	3.2	91
801	Effect of complex nitrogen source on the synthesis and accumulation of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> in flask and fed-batch cultures. <i>Journal of Polymers and the Environment</i> , 1994, 2, 169-176.	0.6	68
802	Family of the major cold-shock protein, CspA (CS7.4), of <i>Escherichia coli</i> , whose members show a high sequence similarity with the eukaryotic Y-box binding proteins. <i>Molecular Microbiology</i> , 1994, 11, 833-839.	2.5	152
803	Construction of plasmids, estimation of plasmid stability, and use of stable plasmids for the production of poly(3-hydroxybutyric acid) by recombinant <i>Escherichia coli</i> . <i>Journal of Biotechnology</i> , 1994, 32, 203-211.	3.8	120
804	Production of Poly(3-Hydroxybutyric Acid) by Recombinant <i>Escherichia coli</i> . <i>Annals of the New York Academy of Sciences</i> , 1994, 721, 43-52.	3.8	38
805	Current Status of Biodegradable Plastics in Korea : Research, Commercial Production and Government Policy. <i>Studies in Polymer Science</i> , 1994, 12, 286-297.	0.2	3
806	Production of <i>Bacillus thuringiensis</i> spores in total cell retention culture and two-stage continuous culture using an internal ceramic filter system. <i>Biotechnology and Bioengineering</i> , 1993, 42, 1107-1112.	3.3	26
807	Direct recovery of intracellular proteins from <i>Candida utilis</i> using reverse micelles in combination with a reducing agent. <i>Biotechnology Letters</i> , 1993, 7, 545-550.	0.5	6
808	High cell density cultivation of <i>Escherichia coli</i> W using sucrose as a carbon source. <i>Biotechnology Letters</i> , 1993, 15, 971-974.	2.2	107
809	Determination of plasmid copy number and stability in <i>Clostridium acetobutylicum</i> ATCC 824. <i>FEMS Microbiology Letters</i> , 1993, 108, 319-323.	1.8	30
810	Vector Construction, Transformation, and Gene Amplification in <i>Clostridium acetobutylicum</i> ATCC 824. <i>Annals of the New York Academy of Sciences</i> , 1992, 665, 39-51.	3.8	32

#	ARTICLE	IF	CITATIONS
811	Construction of <i>Escherichia coli</i> - <i>Clostridium acetobutylicum</i> shuttle vectors and transformation of <i>Clostridium acetobutylicum</i> strains. <i>Biotechnology Letters</i> , 1992, 14, 427-432.	2.2	33
812	Enhanced spore production of <i>Bacillus thuringiensis</i> by fed-batch culture. <i>Biotechnology Letters</i> , 1992, 14, 721-726.	2.2	36
813	Production of poly- γ -hydroxybutyrate by fed-batch culture of recombinant <i>Escherichia coli</i> . <i>Biotechnology Letters</i> , 1992, 14, 811-816.	2.2	83
814	Construction and Applications of Genome-Scale <i>in silico</i> Metabolic Models for Strain Improvement. , 0, , 355-385.		0
815	Determination of the Thermodynamically Dominant Metabolic Pathways. <i>Industrial & Engineering Chemistry Research</i> , 0, , 120726092100004.	3.7	0
816	Bacterial polyhydroxyalkanoates. , 0, .		7
817	CRISPR/Cas-based genome engineering in natural product discovery. , 0, .		1