

Volker F Wendisch

List of Publications by Year in descending order

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247
papers

14,549
citations

13099

68
h-index

26613

107
g-index

259
all docs

259
docs citations

259
times ranked

8094
citing authors

#	ARTICLE	IF	CITATIONS
1	The complete <i>Corynebacterium glutamicum</i> ATCC 13032 genome sequence and its impact on the production of l-aspartate-derived amino acids and vitamins. <i>Journal of Biotechnology</i> , 2003, 104, 5-25.	3.8	844
2	Genome-Wide Analysis of the General Stress Response Network in <i>Escherichia coli</i> : σ^S -Dependent Genes, Promoters, and Sigma Factor Selectivity. <i>Journal of Bacteriology</i> , 2005, 187, 1591-1603.	2.2	743
3	Nitrogen regulatory protein C-controlled genes of <i>Escherichia coli</i> : Scavenging as a defense against nitrogen limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14674-14679.	7.1	353
4	<i>Corynebacterium glutamicum</i> Tailored for Efficient Isobutanol Production. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3300-3310.	3.1	290
5	Metabolic engineering of <i>Escherichia coli</i> and <i>Corynebacterium glutamicum</i> for biotechnological production of organic acids and amino acids. <i>Current Opinion in Microbiology</i> , 2006, 9, 268-274.	5.1	253
6	Quantitative Determination of Metabolic Fluxes during Coultization of Two Carbon Sources: Comparative Analyses with <i>Corynebacterium glutamicum</i> during Growth on Acetate and/or Glucose. <i>Journal of Bacteriology</i> , 2000, 182, 3088-3096.	2.2	243
7	<i>Corynebacterium glutamicum</i> Metabolic Engineering with CRISPR Interference (CRISPRi). <i>ACS Synthetic Biology</i> , 2016, 5, 375-385.	3.8	222
8	LrhA as a new transcriptional key regulator of flagella, motility and chemotaxis genes in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2002, 45, 521-532.	2.5	210
9	Putrescine production by engineered <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 859-868.	3.6	192
10	Acetate metabolism and its regulation in <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2003, 104, 99-122.	3.8	186
11	Metabolic engineering advances and prospects for amino acid production. <i>Metabolic Engineering</i> , 2020, 58, 17-34.	7.0	177
12	Production of the amino acids l-glutamate, l-lysine, l-ornithine and l-arginine from arabinose by recombinant <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2011, 154, 191-198.	3.8	174
13	Propionate oxidation in <i>Escherichia coli</i> : evidence for operation of a methylcitrate cycle in bacteria. <i>Archives of Microbiology</i> , 1997, 168, 428-436.	2.2	173
14	Characterization of a <i>Corynebacterium glutamicum</i> Lactate Utilization Operon Induced during Temperature-Triggered Glutamate Production. <i>Applied and Environmental Microbiology</i> , 2005, 71, 5920-5928.	3.1	173
15	Engineering <i>Escherichia coli</i> for methanol conversion. <i>Metabolic Engineering</i> , 2015, 28, 190-201.	7.0	166
16	Lysine and glutamate production by <i>Corynebacterium glutamicum</i> on glucose, fructose and sucrose: Roles of malic enzyme and fructose-1,6-bisphosphatase. <i>Metabolic Engineering</i> , 2005, 7, 291-301.	7.0	161
17	Accelerated pentose utilization by <i>Corynebacterium glutamicum</i> for accelerated production of lysine, glutamate, ornithine and putrescine. <i>Microbial Biotechnology</i> , 2013, 6, 131-140.	4.2	143
18	The Phosphate Starvation Stimulon of <i>Corynebacterium glutamicum</i> Determined by DNA Microarray Analyses. <i>Journal of Bacteriology</i> , 2003, 185, 4519-4529.	2.2	137

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19	Engineering of a Glycerol Utilization Pathway for Amino Acid Production by <i>Corynebacterium glutamicum</i> . Applied and Environmental Microbiology, 2008, 74, 6216-6222.	3.1	137
20	The DeoR-Type Regulator SugR Represses Expression of ptsG in <i>Corynebacterium glutamicum</i> . Journal of Bacteriology, 2007, 189, 2955-2966.	2.2	131
21	Microbial production of amino acids and derived chemicals: Synthetic biology approaches to strain development. Current Opinion in Biotechnology, 2014, 30, 51-58.	6.6	129
22	Expression of the <i>Escherichia coli</i> pntAB genes encoding a membrane-bound transhydrogenase in <i>Corynebacterium glutamicum</i> improves l-lysine formation. Applied Microbiology and Biotechnology, 2007, 75, 47-53.	3.6	126
23	Updates on industrial production of amino acids using <i>Corynebacterium glutamicum</i> . World Journal of Microbiology and Biotechnology, 2016, 32, 105.	3.6	126
24	Biotechnological production of polyamines by Bacteria: recent achievements and future perspectives. Applied Microbiology and Biotechnology, 2011, 91, 17-30.	3.6	125
25	Diversity of plant growth-promoting rhizobacteria communities associated with the stages of canola growth. Applied Soil Ecology, 2012, 55, 44-52.	4.3	121
26	Genome-wide expression analysis in <i>Corynebacterium glutamicum</i> using DNA microarrays. Journal of Biotechnology, 2003, 104, 273-285.	3.8	117
27	Improving putrescine production by <i>Corynebacterium glutamicum</i> by fine-tuning ornithine transcarbamoylase activity using a plasmid addiction system. Applied Microbiology and Biotechnology, 2012, 95, 169-178.	3.6	117
28	Crude glycerol-based production of amino acids and putrescine by <i>Corynebacterium glutamicum</i> . Bioresource Technology, 2013, 145, 254-258.	9.6	117
29	Ethambutol, a cell wall inhibitor of <i>Mycobacterium tuberculosis</i> , elicits l-glutamate efflux of <i>Corynebacterium glutamicum</i> . Microbiology (United Kingdom), 2005, 151, 1359-1368.	1.8	116
30	The flexible feedstock concept in Industrial Biotechnology: Metabolic engineering of <i>Escherichia coli</i> , <i>Corynebacterium glutamicum</i> , <i>Pseudomonas</i> , <i>Bacillus</i> and yeast strains for access to alternative carbon sources. Journal of Biotechnology, 2016, 234, 139-157.	3.8	109
31	Amino acid production from rice straw and wheat bran hydrolysates by recombinant pentose-utilizing <i>Corynebacterium glutamicum</i> . Applied Microbiology and Biotechnology, 2011, 92, 985-996.	3.6	108
32	Carotenoid biosynthesis and overproduction in <i>Corynebacterium glutamicum</i> . BMC Microbiology, 2012, 12, 198.	3.3	108
33	Pyruvate carboxylase as an anaplerotic enzyme in <i>Corynebacterium glutamicum</i> . Microbiology (United Kingdom), 2005, 151, 1359-1368.	1.8	103
34	Emerging <i>Corynebacterium glutamicum</i> systems biology. Journal of Biotechnology, 2006, 124, 74-92.	3.8	103
35	Phosphotransferase System-Independent Glucose Utilization in <i>Corynebacterium glutamicum</i> by Inositol Permeases and Glucokinases. Applied and Environmental Microbiology, 2011, 77, 3571-3581.	3.1	103
36	DNA Microarray Analyses of the Long-Term Adaptive Response of <i>Escherichia coli</i> to Acetate and Propionate. Applied and Environmental Microbiology, 2003, 69, 1759-1774.	3.1	102

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37	Engineering microbial cell factories: Metabolic engineering of <i>Corynebacterium glutamicum</i> with a focus on non-natural products. <i>Biotechnology Journal</i> , 2015, 10, 1170-1184.	3.5	102
38	Chassis organism from <i>Corynebacterium glutamicum</i> – a top-down approach to identify and delete irrelevant gene clusters. <i>Biotechnology Journal</i> , 2015, 10, 290-301.	3.5	102
39	Regulation of type 1 fimbriae synthesis and biofilm formation by the transcriptional regulator LrhA of <i>Escherichia coli</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 3287-3298.	1.8	100
40	Biotechnological production of aromatic compounds of the extended shikimate pathway from renewable biomass. <i>Journal of Biotechnology</i> , 2017, 257, 211-221.	3.8	98
41	Production of carbon-13-labeled cadaverine by engineered <i>Corynebacterium glutamicum</i> using carbon-13-labeled methanol as co-substrate. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10163-10176.	3.6	96
42	Characterization of myo-Inositol Utilization by <i>Corynebacterium glutamicum</i> : the Stimulon, Identification of Transporters, and Influence on L-Lysine Formation. <i>Journal of Bacteriology</i> , 2006, 188, 8054-8061.	2.2	94
43	Production of amino acids – Genetic and metabolic engineering approaches. <i>Bioresource Technology</i> , 2017, 245, 1575-1587.	9.6	93
44	Glucosamine as carbon source for amino acid-producing <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1679-1687.	3.6	91
45	Production of the Marine Carotenoid Astaxanthin by Metabolically Engineered <i>Corynebacterium glutamicum</i> . <i>Marine Drugs</i> , 2016, 14, 124.	4.6	90
46	Production and glucosylation of C50 and C40 carotenoids by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1223-1235.	3.6	89
47	Global gene expression analysis of glucose overflow metabolism in <i>Escherichia coli</i> and reduction of aerobic acetate formation. <i>Applied Microbiology and Biotechnology</i> , 2007, 74, 406-421.	3.6	85
48	Engineering <i>Corynebacterium glutamicum</i> for fast production of L-lysine and L-pipecolic acid. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8075-8090.	3.6	84
49	Global Expression Profiling and Physiological Characterization of <i>Corynebacterium glutamicum</i> Grown in the Presence of L-Valine. <i>Applied and Environmental Microbiology</i> , 2003, 69, 2521-2532.	3.1	83
50	Production of the sesquiterpene (+)-valencene by metabolically engineered <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2014, 191, 205-213.	3.8	82
51	Characterization of the Dicarboxylate Transporter DctA in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2009, 191, 5480-5488.	2.2	81
52	The Global Repressor SugR Controls Expression of Genes of Glycolysis and of the L-Lactate Dehydrogenase LdhA in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2008, 190, 8033-8044.	2.2	80
53	Metabolic engineering for the microbial production of carotenoids and related products with a focus on the rare C50 carotenoids. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4355-4368.	3.6	80
54	Identification and Characterization of the Dicarboxylate Uptake System DccT in <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2008, 190, 6458-6466.	2.2	78

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55	RamA and RamB are global transcriptional regulators in <i>Corynebacterium glutamicum</i> and control genes for enzymes of the central metabolism. <i>Journal of Biotechnology</i> , 2011, 154, 126-139.	3.8	78
56	Lrp of <i>Corynebacterium glutamicum</i> controls expression of the brnFE operon encoding the export system for l-methionine and branched-chain amino acids. <i>Journal of Biotechnology</i> , 2012, 158, 231-241.	3.8	78
57	Engineering of <i>Corynebacterium glutamicum</i> for minimized carbon loss during utilization of d-xylose containing substrates. <i>Journal of Biotechnology</i> , 2014, 192, 156-160.	3.8	78
58	NCgl2620 Encodes a Class II Polyphosphate Kinase in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 5026-5033.	3.1	77
59	Methanol-based cadaverine production by genetically engineered <i>Bacillus acillus methanolicus</i> strains. <i>Microbial Biotechnology</i> , 2015, 8, 342-350.	4.2	76
60	Fructose-1,6-bisphosphatase from <i>Corynebacterium glutamicum</i> : expression and deletion of the fbp gene and biochemical characterization of the enzyme. <i>Archives of Microbiology</i> , 2003, 180, 285-292.	2.2	75
61	Regulation of acetate metabolism in <i>Corynebacterium glutamicum</i> : transcriptional control of the isocitrate lyase and malate synthase genes. <i>Archives of Microbiology</i> , 1997, 168, 262-269.	2.2	74
62	Ethanol Catabolism in <i>Corynebacterium glutamicum</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2008, 15, 222-233.	1.0	74
63	Ornithine cyclodeaminase-based proline production by <i>Corynebacterium glutamicum</i> . <i>Microbial Cell Factories</i> , 2013, 12, 63.	4.0	74
64	Metabolic engineering of <i>Corynebacterium glutamicum</i> for glycolate production. <i>Journal of Biotechnology</i> , 2014, 192, 366-375.	3.8	73
65	METABOLIC ENGINEERING OF <i>CORYNEBACTERIUM GLUTAMICUM</i> AIMED AT ALTERNATIVE CARBON SOURCES AND NEW PRODUCTS. <i>Computational and Structural Biotechnology Journal</i> , 2012, 3, e201210004.	4.1	71
66	Metabolic pathway engineering for production of 1,2-propanediol and 1-propanol by <i>Corynebacterium glutamicum</i> . <i>Biotechnology for Biofuels</i> , 2015, 8, 91.	6.2	71
67	Advances in metabolic engineering of <i>Corynebacterium glutamicum</i> to produce high-value active ingredients for food, feed, human health, and well-being. <i>Essays in Biochemistry</i> , 2021, 65, 197-212.	4.7	71
68	Two-Component Systems of <i>Corynebacterium glutamicum</i> : Deletion Analysis and Involvement of the PhoS-PhoR System in the Phosphate Starvation Response. <i>Journal of Bacteriology</i> , 2006, 188, 724-732.	2.2	70
69	Fermentative Production of the Diamine Putrescine: System Metabolic Engineering of <i>Corynebacterium Glutamicum</i> . <i>Metabolites</i> , 2015, 5, 211-231.	2.9	70
70	Synthetic <i>Escherichia coli</i> - <i>Corynebacterium glutamicum</i> consortia for l-lysine production from starch and sucrose. <i>Bioresource Technology</i> , 2018, 260, 302-310.	9.6	69
71	Roles of pyruvate kinase and malic enzyme in <i>Corynebacterium glutamicum</i> for growth on carbon sources requiring gluconeogenesis. <i>Archives of Microbiology</i> , 2004, 182, 354-363.	2.2	68
72	Regulation of <i>lac</i> -Lactate Utilization by the FadR-Type Regulator LldR of <i>Corynebacterium glutamicum</i> . <i>Journal of Bacteriology</i> , 2008, 190, 963-971.	2.2	68

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73	Isolation of Escherichia coli mRNA and Comparison of Expression Using mRNA and Total RNA on DNA Microarrays. Analytical Biochemistry, 2001, 290, 205-213.	2.4	67
74	Optimization of the IPP Precursor Supply for the Production of Lycopene, Decaprenoxanthin and Astaxanthin by Corynebacterium glutamicum. Frontiers in Bioengineering and Biotechnology, 2014, 2, 28.	4.1	67
75	Methanol as carbon substrate in the bioeconomy: Metabolic engineering of aerobic methylotrophic bacteria for production of value-added chemicals. Biofuels, Bioproducts and Biorefining, 2017, 11, 719-731.	3.7	67
76	Improved fermentative production of gamma-aminobutyric acid via the putrescine route: Systems metabolic engineering for production from glucose, amino sugars, and xylose. Biotechnology and Bioengineering, 2017, 114, 862-873.	3.3	67
77	A new metabolic route for the production of gamma-aminobutyric acid by Corynebacterium glutamicum from glucose. Amino Acids, 2016, 48, 2519-2531.	2.7	65
78	A new metabolic route for the fermentative production of 5-aminovalerate from glucose and alternative carbon sources. Bioresource Technology, 2017, 245, 1701-1709.	9.6	64
79	Methylotrophy in the thermophilic Bacillus methanolicus, basic insights and application for commodity production from methanol. Applied Microbiology and Biotechnology, 2015, 99, 535-551.	3.6	63
80	<i>Corynebacterium glutamicum</i> Chassis C1*: Building and Testing a Novel Platform Host for Synthetic Biology and Industrial Biotechnology. ACS Synthetic Biology, 2018, 7, 132-144.	3.8	63
81	Identification of AcnR, a TetR-type Repressor of the Aconitase Gene acn in Corynebacterium glutamicum. Journal of Biological Chemistry, 2005, 280, 585-595.	3.4	62
82	Changes in Root Bacterial Communities Associated to Two Different Development Stages of Canola (Brassica napus L. var oleifera) Evaluated through Next-Generation Sequencing Technology. Microbial Ecology, 2013, 65, 593-601.	2.8	62
83	Characterization of citrate utilization in Corynebacterium glutamicum by transcriptome and proteome analysis. FEMS Microbiology Letters, 2007, 273, 109-119.	1.8	61
84	Engineering of Corynebacterium glutamicum for growth and l-lysine and lycopene production from N-acetyl-glucosamine. Applied Microbiology and Biotechnology, 2014, 98, 5633-5643.	3.6	60
85	Modular pathway engineering of Corynebacterium glutamicum for production of the glutamate-derived compounds ornithine, proline, putrescine, citrulline, and arginine. Journal of Biotechnology, 2015, 214, 85-94.	3.8	60
86	Elimination of polyamine N-acetylation and regulatory engineering improved putrescine production by Corynebacterium glutamicum. Journal of Biotechnology, 2015, 201, 75-85.	3.8	59
87	Improving lysine production by Corynebacterium glutamicum through DNA microarray-based identification of novel target genes. Applied Microbiology and Biotechnology, 2007, 76, 677-689.	3.6	58
88	Fermentative production of L-lysine from glucose and alternative carbon sources. Biotechnology Journal, 2017, 12, 1600646.	3.5	58
89	Efflux of Compatible Solutes in Corynebacterium Glutamicum Mediated by Osmoregulated Channel Activity. FEBS Journal, 1997, 247, 572-580.	0.2	57
90	Escherichia coli Spotted Double-Strand DNA Microarrays: RNA Extraction, Labeling, Hybridization, Quality Control, and Data Management. , 2003, 224, 61-78.		57

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91	Patchoulol Production with Metabolically Engineered <i>Corynebacterium glutamicum</i> . <i>Genes</i> , 2018, 9, 219.	2.4	57
92	Formation of volutin granules in <i>Corynebacterium glutamicum</i> . <i>FEMS Microbiology Letters</i> , 2005, 243, 133-140.	1.8	56
93	Roles of export genes <i>cgmA</i> and <i>lysE</i> for the production of l-arginine and l-citrulline by <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8465-8474.	3.6	56
94	Synthetic microbial consortia for small molecule production. <i>Current Opinion in Biotechnology</i> , 2020, 62, 72-79.	6.6	56
95	Genomewide Expression Analysis in Amino Acid-Producing Bacteria Using DNA Microarrays. <i>Applied Biochemistry and Biotechnology</i> , 2004, 118, 215-232.	2.9	55
96	<i>Cg2091</i> encodes a polyphosphate/ATP-dependent glucokinase of <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 703-713.	3.6	55
97	Chemicals from lignin: Recent depolymerization techniques and upgrading extended pathways. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 14, 33-39.	5.9	55
98	Biotechnological production of mono- and diamines using bacteria: recent progress, applications, and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3583-3594.	3.6	53
99	Carbohydrate metabolism in <i>Thermoproteus tenax</i> : in vivo utilization of the non-phosphorylative Entner-Doudoroff pathway and characterization of its first enzyme, glucose dehydrogenase. <i>Archives of Microbiology</i> , 1997, 168, 120-127.	2.2	52
100	Improved fermentative production of the compatible solute ectoine by <i>Corynebacterium glutamicum</i> from glucose and alternative carbon sources. <i>Journal of Biotechnology</i> , 2017, 258, 59-68.	3.8	52
101	Redox self-sufficient whole cell biotransformation for amination of alcohols. <i>Bioorganic and Medicinal Chemistry</i> , 2014, 22, 5578-5585.	3.0	51
102	Transport and metabolic engineering of the cell factory <i>Corynebacterium glutamicum</i> . <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	50
103	Transcriptome analysis of thermophilic methylotrophic <i>Bacillus methanolicus</i> MGA3 using RNA-sequencing provides detailed insights into its previously uncharted transcriptional landscape. <i>BMC Genomics</i> , 2015, 16, 73.	2.8	49
104	The global gene expression response of <i>Escherichia coli</i> to l-phenylalanine. <i>Journal of Biotechnology</i> , 2005, 115, 221-237.	3.8	48
105	Gene Expression Analysis of <i>Corynebacterium glutamicum</i> Subjected to Long-Term Lactic Acid Adaptation. <i>Journal of Bacteriology</i> , 2007, 189, 5582-5590.	2.2	48
106	Coproduction of cell-bound and secreted value-added compounds: Simultaneous production of carotenoids and amino acids by <i>Corynebacterium glutamicum</i> . <i>Bioresource Technology</i> , 2018, 247, 744-752.	9.6	48
107	Phosphate Starvation-Inducible Gene <i>ushA</i> Encodes a 5' Nucleotidase Required for Growth of <i>Corynebacterium glutamicum</i> on Media with Nucleotides as the Phosphorus Source. <i>Applied and Environmental Microbiology</i> , 2005, 71, 4339-4344.	3.1	45
108	Engineering of <i>Corynebacterium glutamicum</i> for xylitol production from lignocellulosic pentose sugars. <i>Journal of Biotechnology</i> , 2016, 230, 63-71.	3.8	45

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109	Isoprenoid Pyrophosphate-Dependent Transcriptional Regulation of Carotenogenesis in <i>Corynebacterium glutamicum</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 633.	3.5	44
110	Polyphosphate/ATP-dependent NAD kinase of <i>Corynebacterium glutamicum</i> : biochemical properties and impact of ppnK overexpression on lysine production. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 583-593.	3.6	43
111	Identification of two mutations increasing the methanol tolerance of <i>Corynebacterium glutamicum</i> . <i>BMC Microbiology</i> , 2015, 15, 216.	3.3	43
112	Genome-Based Genetic Tool Development for <i>Bacillus methanolicus</i> : Theta- and Rolling Circle-Replicating Plasmids for Inducible Gene Expression and Application to Methanol-Based Cadaverine Production. <i>Frontiers in Microbiology</i> , 2016, 7, 1481.	3.5	43
113	Methanol-based $\hat{1}^3$ -aminobutyric acid (GABA) production by genetically engineered <i>Bacillus methanolicus</i> strains. <i>Industrial Crops and Products</i> , 2017, 106, 12-20.	5.2	43
114	Soil suppressiveness and its relations with the microbial community in a Brazilian subtropical agroecosystem under different management systems. <i>Soil Biology and Biochemistry</i> , 2016, 96, 191-197.	8.8	42
115	Pathway identification combining metabolic flux and functional genomics analyses: Acetate and propionate activation by <i>Corynebacterium glutamicum</i> . <i>Journal of Biotechnology</i> , 2009, 140, 75-83.	3.8	41
116	Reductive whole-cell biotransformation with <i>Corynebacterium glutamicum</i> : improvement of NADPH generation from glucose by a cyclized pentose phosphate pathway using pfkA and gapA deletion mutants. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 143-152.	3.6	40
117	Light-Controlled Cell Factories: Employing Photocaged Isopropyl- $\hat{1}^2$ -Thiogalactopyranoside for Light-Mediated Optimization of <i>lac</i> Promoter-Based Gene Expression and (+)-Valencene Biosynthesis in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 6141-6149.	3.1	40
118	C 3 -Carboxylation as an anaplerotic reaction in phosphoenolpyruvate carboxylase-deficient <i>Corynebacterium glutamicum</i> . <i>Archives of Microbiology</i> , 1996, 165, 387-396.	2.2	39
119	Phosphotransferase System-Mediated Glucose Uptake Is Repressed in Phosphoglucosomerase-Deficient <i>Corynebacterium glutamicum</i> Strains. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2588-2595.	3.1	39
120	Characterization of Fructose 1,6-Bisphosphatase and Sedoheptulose 1,7-Bisphosphatase from the Facultative Ribulose Monophosphate Cycle Methylothermophilic <i>Bacillus methanolicus</i> . <i>Journal of Bacteriology</i> , 2013, 195, 5112-5122.	2.2	39
121	L-citrulline production by metabolically engineered <i>Corynebacterium glutamicum</i> from glucose and alternative carbon sources. <i>AMB Express</i> , 2014, 4, 85.	3.0	39
122	Efficient Production of the Dicarboxylic Acid Glutarate by <i>Corynebacterium glutamicum</i> via a Novel Synthetic Pathway. <i>Frontiers in Microbiology</i> , 2018, 9, 2589.	3.5	39
123	Xylose as preferred substrate for sarcosine production by recombinant <i>Corynebacterium glutamicum</i> . <i>Bioresource Technology</i> , 2019, 281, 135-142.	9.6	39
124	Methanol-Essential Growth of <i>Corynebacterium glutamicum</i> : Adaptive Laboratory Evolution Overcomes Limitation due to Methanethiol Assimilation Pathway. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3617.	4.1	38
125	Metabolic engineering of <i>Corynebacterium glutamicum</i> for the fermentative production of halogenated tryptophan. <i>Journal of Biotechnology</i> , 2019, 291, 7-16.	3.8	37
126	Overexpression of the primary sigma factor gene sigA improved carotenoid production by <i>Corynebacterium glutamicum</i> : Application to production of $\hat{1}^2$ -carotene and the non-native linear C50 carotenoid bisanhydrobacterioruberin. <i>Metabolic Engineering Communications</i> , 2017, 4, 1-11.	3.6	36

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127	Improved Astaxanthin Production with <i>Corynebacterium glutamicum</i> by Application of a Membrane Fusion Protein. <i>Marine Drugs</i> , 2019, 17, 621.	4.6	33
128	ScrB (Cg2927) is a sucrose-6-phosphate hydrolase essential for sucrose utilization by <i>Corynebacterium glutamicum</i> . <i>FEMS Microbiology Letters</i> , 2008, 289, 80-89.	1.8	32
129	Exopolyphosphatases PPX1 and PPX2 from <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 3161-3170.	3.1	32
130	One-step process for production of N-methylated amino acids from sugars and methylamine using recombinant <i>Corynebacterium glutamicum</i> as biocatalyst. <i>Scientific Reports</i> , 2018, 8, 12895.	3.3	32
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