Christoph Wittmann

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6201289/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Guiding stars to the field of dreams: Metabolically engineered pathways and microbial platforms for a sustainable lignin-based industry. Metabolic Engineering, 2022, 71, 13-41.	7.0	36
2	Recombinant production of the lantibiotic nisin using Corynebacterium glutamicum in a two-step process. Microbial Cell Factories, 2022, 21, 11.	4.0	13
3	Co-cultures of Propionibacterium freudenreichii and Bacillus amyloliquefaciens cooperatively upgrade sunflower seed milk to high levels of vitamin B12 and multiple co-benefits. Microbial Cell Factories, 2022, 21, 48.	4.0	10
4	GC/MS-based 13C metabolic flux analysis resolves the parallel and cyclic photomixotrophic metabolism of Synechocystis sp. PCC 6803 and selected deletion mutants including the Entner-Doudoroff and phosphoketolase pathways. Microbial Cell Factories, 2022, 21, 69.	4.0	11
5	Characterization of Anti-Cancer Activities of Violacein: Actions on Tumor Cells and the Tumor Microenvironment. Frontiers in Oncology, 2022, 12, .	2.8	3
6	Biobased PET from lignin using an engineered cis, cis-muconate-producing Pseudomonas putida strain with superior robustness, energy and redox properties. Metabolic Engineering, 2022, 72, 337-352.	7.0	26
7	Channelling carbon flux through the <i>meta</i> â€cleavage route for improved poly(3â€hydroxyalkanoate) production from benzoate and ligninâ€based aromatics in <i>Pseudomonas putida</i> H. Microbial Biotechnology, 2021, 14, 2385-2402.	4.2	8
8	Microparticles enhance the formation of seven major classes of natural products in native and metabolically engineered actinobacteria through accelerated morphological development. Biotechnology and Bioengineering, 2021, 118, 3076-3093.	3.3	15
9	Genome-based selection and application of food-grade microbes for chickpea milk fermentation towards increased l-lysine content, elimination of indigestible sugars, and improved flavour. Microbial Cell Factories, 2021, 20, 109.	4.0	12
10	Superior production of heavy pamamycin derivatives using a bkdR deletion mutant of Streptomyces albus J1074/R2. Microbial Cell Factories, 2021, 20, 111.	4.0	11
11	Microbial production of polyunsaturated fatty acids — high-value ingredients for aquafeed, superfoods, and pharmaceuticals. Current Opinion in Biotechnology, 2021, 69, 199-211.	6.6	64
12	IsoSolve: An Integrative Framework to Improve Isotopic Coverage and Consolidate Isotopic Measurements by Mass Spectrometry and/or Nuclear Magnetic Resonance. Analytical Chemistry, 2021, 93, 9428-9436.	6.5	5
13	Advances in metabolic engineering of <i>Corynebacterium glutamicum</i> to produce high-value active ingredients for food, feed, human health, and well-being. Essays in Biochemistry, 2021, 65, 197-212.	4.7	71
14	Cascaded valorization of brown seaweed to produce l-lysine and value-added products using Corynebacterium glutamicum streamlined by systems metabolic engineering. Metabolic Engineering, 2021, 67, 293-307.	7.0	30
15	Engineering the precursor pool to modulate the production of pamamycins in the heterologous host S. albus J1074. Metabolic Engineering, 2021, 67, 11-18.	7.0	7
16	Establishing recombinant production of pediocin PA-1 in Corynebacterium glutamicum. Metabolic Engineering, 2021, 68, 34-45.	7.0	15
17	Biochemistry, genetics and biotechnology of glycerol utilization in <i>Pseudomonas</i> species. Microbial Biotechnology, 2020, 13, 32-53.	4.2	76
18	Convergent evolution of zoonotic <i>Brucella</i> species toward the selective use of the pentose phosphate pathway. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26374-26381.	7.1	13

#	Article	IF	CITATIONS
19	Industrial biotechnology of Pseudomonas putida: advances and prospects. Applied Microbiology and Biotechnology, 2020, 104, 7745-7766.	3.6	128
20	A common approach for absolute quantification of short chain CoA thioesters in prokaryotic and eukaryotic microbes. Microbial Cell Factories, 2020, 19, 160.	4.0	21
21	Microparticles globallyÂreprogram <i>Streptomyces albus</i> toward accelerated morphogenesis, streamlined carbon core metabolism, and enhanced production of the antituberculosis polyketide pamamycin. Biotechnology and Bioengineering, 2020, 117, 3858-3875.	3.3	22
22	Editorial overview: Chemical biotechnology. Current Opinion in Biotechnology, 2020, 65, vi-vii.	6.6	0
23	Contextual Flexibility in Pseudomonas aeruginosa Central Carbon Metabolism during Growth in Single Carbon Sources. MBio, 2020, 11, .	4.1	57
24	Cascaded valorization of seaweed using microbial cell factories. Current Opinion in Biotechnology, 2020, 65, 102-113.	6.6	27
25	Microbial production of extremolytes — high-value active ingredients for nutrition, health care, and well-being. Current Opinion in Biotechnology, 2020, 65, 118-128.	6.6	61
26	Limited life cycle and cost assessment for the bioconversion of ligninâ€derived aromatics into adipic acid. Biotechnology and Bioengineering, 2020, 117, 1381-1393.	3.3	32
27	Glycolytic Shunts Replenish the Calvin–Benson–Bassham Cycle as Anaplerotic Reactions in Cyanobacteria. Molecular Plant, 2020, 13, 471-482.	8.3	53
28	Pathways at Work: Metabolic Flux Analysis of the Industrial Cell Factory Corynebacterium glutamicum. Microbiology Monographs, 2020, , 227-265.	0.6	3
29	Back Cover Image, Volume 117, Number 12, December 2020. Biotechnology and Bioengineering, 2020, 117, .	3.3	0
30	Systems Metabolic Engineering Approaches for Rewiring Cells. Biotechnology Journal, 2019, 14, e1900312.	3.5	4
31	Fermentation of plant-based milk alternatives for improved flavour and nutritional value. Applied Microbiology and Biotechnology, 2019, 103, 9263-9275.	3.6	233
32	Polyunsaturated fatty acid production by Yarrowia lipolytica employing designed myxobacterial PUFA synthases. Nature Communications, 2019, 10, 4055.	12.8	81
33	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for Highâ€Level Ectoine Production: Design, Combinatorial Assembly, and Implementation of a Transcriptionally Balanced Heterologous Ectoine Pathway. Biotechnology Journal, 2019, 14, e1800417.	3.5	61
34	GC-MS-based 13C metabolic flux analysis resolves the parallel and cyclic glucose metabolism of Pseudomonas putida KT2440 and Pseudomonas aeruginosa PAO1. Metabolic Engineering, 2019, 54, 35-53.	7.0	90
35	A field of dreams: Lignin valorization into chemicals, materials, fuels, and health-care products. Biotechnology Advances, 2019, 37, 107360.	11.7	301
36	Optoregulated Drug Release from an Engineered Living Material: Selfâ€Replenishing Drug Depots for Longâ€Term, Lightâ€Regulated Delivery. Small, 2019, 15, e1804717.	10.0	56

#	Article	IF	CITATIONS
37	Improved riboflavin production with Ashbya gossypii from vegetable oil based on 13C metabolic network analysis with combined labeling analysis by GC/MS, LC/MS, 1D, and 2D NMR. Metabolic Engineering, 2018, 47, 357-373.	7.0	50
38	Anodic electroâ€fermentation: Anaerobic production of Lâ€Lysine by recombinant <i>Corynebacterium glutamicum</i> . Biotechnology and Bioengineering, 2018, 115, 1499-1508.	3.3	58
39	Lysine production from the sugar alcohol mannitol: Design of the cell factory Corynebacterium glutamicum SEA-3 through integrated analysis and engineering of metabolic pathway fluxes. Metabolic Engineering, 2018, 47, 475-487.	7.0	65
40	From lignin to nylon: Cascaded chemical and biochemical conversion using metabolically engineered Pseudomonas putida. Metabolic Engineering, 2018, 47, 279-293.	7.0	225
41	Enabling the valorization of guaiacol-based lignin: Integrated chemical and biochemical production of cis,cis-muconic acid using metabolically engineered Amycolatopsis sp ATCC 39116. Metabolic Engineering, 2018, 45, 200-210.	7.0	125
42	A bio-based route to the carbon-5 chemical glutaric acid and to bionylon-6,5 using metabolically engineered <i>Corynebacterium glutamicum</i> . Green Chemistry, 2018, 20, 4662-4674.	9.0	78
43	Metabolic flux analysis in Ashbya gossypii using 13C-labeled yeast extract: industrial riboflavin production under complex nutrient conditions. Microbial Cell Factories, 2018, 17, 162.	4.0	27
44	From systems biology to metabolically engineered cells — an omics perspective on the development of industrial microbes. Current Opinion in Microbiology, 2018, 45, 180-188.	5.1	52
45	Towards better understanding of industrial cell factories: novel approaches for 13C metabolic flux analysis in complex nutrient environments. Current Opinion in Biotechnology, 2018, 54, 128-137.	6.6	33
46	Metabolic engineering of Corynebacterium glutamicum for the production of cis, cis-muconic acid from lignin. Microbial Cell Factories, 2018, 17, 115.	4.0	150
47	Metabolically engineered Corynebacterium glutamicum for bio-based production of chemicals, fuels, materials, and healthcare products. Metabolic Engineering, 2018, 50, 122-141.	7.0	183
48	Biotechnological Production of Organic Acids from Renewable Resources. Advances in Biochemical Engineering/Biotechnology, 2017, 166, 373-410.	1.1	16
49	Bio-based succinate from sucrose: High-resolution 13C metabolic flux analysis and metabolic engineering of the rumen bacterium Basfia succiniciproducens. Metabolic Engineering, 2017, 44, 198-212.	7.0	46
50	Use of Single-Frequency Impedance Spectroscopy to Characterize the Growth Dynamics of Biofilm Formation in Pseudomonas aeruginosa. Scientific Reports, 2017, 7, 5223.	3.3	44
51	A Precise Temperature-Responsive Bistable Switch Controlling Yersinia Virulence. PLoS Pathogens, 2016, 12, e1006091.	4.7	24
52	Proteome and carbon flux analysis of <i>PseudomonasÂaeruginosa</i> clinical isolates from different infection sites. Proteomics, 2016, 16, 1381-1385.	2.2	21
53	Systems metabolic engineering of Escherichia coli for the heterologous production of high value molecules — a veteran at new shores. Current Opinion in Biotechnology, 2016, 42, 178-188.	6.6	41
54	Corynebacterium glutamicum for Sustainable Bioproduction: From Metabolic Physiology to Systems Metabolic Engineering. Advances in Biochemical Engineering/Biotechnology, 2016, 162, 217-263.	1.1	40

#	Article	IF	CITATIONS
55	Systems metabolic engineering of Corynebacterium glutamicum for the production of the carbon-5 platform chemicals 5-aminovalerate and glutarate. Microbial Cell Factories, 2016, 15, 154.	4.0	109
56	Editorial overview: Chemical biotechnology. Current Opinion in Biotechnology, 2016, 42, iv-v.	6.6	0
57	In silico metabolic network analysis of Arabidopsis leaves. BMC Systems Biology, 2016, 10, 102.	3.0	12
58	Integrated analysis of gene expression and metabolic fluxes in PHA-producing Pseudomonas putida grown on glycerol. Microbial Cell Factories, 2016, 15, 73.	4.0	70
59	Biotechnology of riboflavin. Applied Microbiology and Biotechnology, 2016, 100, 2107-2119.	3.6	123
60	Novel Approach for High-Throughput Metabolic Screening of Whole Plants by Stable Isotopes. Plant Physiology, 2016, 171, 25-41.	4.8	27
61	Green pathways: Metabolic network analysis of plant systems. Metabolic Engineering, 2016, 34, 1-24.	7.0	24
62	Comparative metabolic flux analysis of an Ashbya gossypii wild type strain and a high riboflavin-producing mutant strain. Journal of Bioscience and Bioengineering, 2015, 119, 101-106.	2.2	29
63	Advanced Biotechnology: Metabolically Engineered Cells for the Bioâ€Based Production of Chemicals and Fuels, Materials, and Healthâ€Care Products. Angewandte Chemie - International Edition, 2015, 54, 3328-3350.	13.8	255
64	A roadmap for interpreting 13 C metabolite labeling patterns from cells. Current Opinion in Biotechnology, 2015, 34, 189-201.	6.6	513
65	Acetate Dissimilation and Assimilation in Mycobacterium tuberculosis Depend on Carbon Availability. Journal of Bacteriology, 2015, 197, 3182-3190.	2.2	26
66	Large-Scale ¹³ C Flux Profiling Reveals Conservation of the Entner-Doudoroff Pathway as a Glycolytic Strategy among Marine Bacteria That Use Glucose. Applied and Environmental Microbiology, 2015, 81, 2408-2422.	3.1	73
67	Top value platform chemicals: bio-based production of organic acids. Current Opinion in Biotechnology, 2015, 36, 168-175.	6.6	237
68	Robustness and Plasticity of Metabolic Pathway Flux among Uropathogenic Isolates of Pseudomonas aeruginosa. PLoS ONE, 2014, 9, e88368.	2.5	60
69	Erythritol feeds the pentose phosphate pathway via three new isomerases leading to D-erythrose-4-phosphate in <i>Brucella</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17815-17820.	7.1	53
70	Production of medium chain length polyhydroxyalkanoate in metabolic flux optimized Pseudomonas putida. Microbial Cell Factories, 2014, 13, 88.	4.0	98
71	Gene Regulatory and Metabolic Adaptation Processes of Dinoroseobacter shibae DFL12T during Oxygen Depletion. Journal of Biological Chemistry, 2014, 289, 13219-13231.	3.4	25
72	Adaptation of <scp> <i>B</i> </scp> <i>acillus subtilis</i> carbon core metabolism to simultaneous nutrient limitation and osmotic challenge: a multiâ€omics perspective. Environmental Microbiology, 2014, 16, 1898-1917.	3.8	83

#	Article	IF	CITATIONS
73	From zero to hero $\hat{a} \in$ Production of bio-based nylon from renewable resources using engineered Corynebacterium glutamicum. Metabolic Engineering, 2014, 25, 113-123.	7.0	246
74	Functionalization of magnetic nanoparticles with high-binding capacity for affinity separation of therapeutic proteins. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	14
75	The Pyruvate-Tricarboxylic Acid Cycle Node. Journal of Biological Chemistry, 2014, 289, 30114-30132.	3.4	53
76	Sampling of intracellular metabolites for stationary and non-stationary 13C metabolic flux analysis in Escherichia coli. Analytical Biochemistry, 2014, 465, 38-49.	2.4	50
77	The Key to Acetate: Metabolic Fluxes of Acetic Acid Bacteria under Cocoa Pulp Fermentation-Simulating Conditions. Applied and Environmental Microbiology, 2014, 80, 4702-4716.	3.1	89
78	Metabolic flux pattern of glucose utilization by Xanthomonas campestris pv. campestris: prevalent role of the Entner–Doudoroff pathway and minor fluxes through the pentose phosphate pathway and glycolysis. Molecular BioSystems, 2014, 10, 2663-2676.	2.9	28
79	Systems metabolic engineering of <i>Escherichia coli</i> for gram scale production of the antitumor drug deoxyviolacein from glycerol. Biotechnology and Bioengineering, 2014, 111, 2280-2289.	3.3	40
80	Viability characterization of Taxus chinensis plant cell suspension cultures by rapid colorimetric- and image analysis-based techniques. Bioprocess and Biosystems Engineering, 2014, 37, 1799-1808.	3.4	8
81	GC-MS-Based 13C Metabolic Flux Analysis. Methods in Molecular Biology, 2014, 1191, 165-174.	0.9	6
82	Systemsâ€wide analysis and engineering of metabolic pathway fluxes in bioâ€succinate producing <i>Basfia succiniciproducens</i> . Biotechnology and Bioengineering, 2013, 110, 3013-3023.	3.3	88
83	Production of nonâ€proteinogenic amino acids from αâ€keto acid precursors with recombinant <i>Corynebacterium glutamicum</i> . Biotechnology and Bioengineering, 2013, 110, 2846-2855.	3.3	16
84	Membrane fluidity of halophilic ectoine-secreting bacteria related to osmotic and thermal treatment. Bioprocess and Biosystems Engineering, 2013, 36, 1829-1841.	3.4	7
85	Oxygen supply in disposable shake-flasks: prediction of oxygen transfer rate, oxygen saturation and maximum cell concentration during aerobic growth. Biotechnology Letters, 2013, 35, 1223-1230.	2.2	31
86	High yield production of extracellular recombinant levansucrase by Bacillus megaterium. Applied Microbiology and Biotechnology, 2013, 97, 3343-3353.	3.6	36
87	Systems metabolic engineering of Escherichia coli for production of the antitumor drugs violacein and deoxyviolacein. Metabolic Engineering, 2013, 20, 29-41.	7.0	108
88	Metabolic engineering of industrial platform microorganisms for biorefinery applications – Optimization of substrate spectrum and process robustness by rational and evolutive strategies. Bioresource Technology, 2013, 135, 544-554.	9.6	115
89	In-silico-driven metabolic engineering of Pseudomonas putida for enhanced production of poly-hydroxyalkanoates. Metabolic Engineering, 2013, 15, 113-123.	7.0	160
90	Increased lysine production by flux coupling of the tricarboxylic acid cycle and the lysine biosynthetic pathway—Metabolic engineering of the availability of succinyl-CoA in Corynebacterium glutamicum. Metabolic Engineering, 2013, 15, 184-195.	7.0	106

CHRISTOPH WITTMANN

#	Article	IF	CITATIONS
91	From gene to product. Journal of Biotechnology, 2013, 163, 85-86.	3.8	Ο
92	Characterization and control of fungal morphology for improved production performance in biotechnology. Journal of Biotechnology, 2013, 163, 112-123.	3.8	175
93	Systems metabolic engineering of xyloseâ€utilizing <i>Corynebacterium glutamicum</i> for production of 1,5â€diaminopentane. Biotechnology Journal, 2013, 8, 557-570.	3.5	106
94	Ectoine production by <i><scp>A</scp>lkalibacillus haloalkaliphilus</i> —Bioprocess development using response surface methodology and modelâ€driven strategies. Engineering in Life Sciences, 2013, 13, 399-407.	3.6	8
95	Getting the big beast to work—Systems biotechnology of Bacillus megaterium for novel high-value proteins. Journal of Biotechnology, 2013, 163, 87-96.	3.8	47
96	Systems metabolic engineering of Corynebacterium glutamicum for production of the chemical chaperone ectoine. Microbial Cell Factories, 2013, 12, 110.	4.0	84
97	Core Fluxome and Metafluxome of Lactic Acid Bacteria under Simulated Cocoa Pulp Fermentation Conditions. Applied and Environmental Microbiology, 2013, 79, 5670-5681.	3.1	61
98	Pathways at Work: Metabolic Flux Analysis of the Industrial Cell Factory Corynebacterium glutamicum. Microbiology Monographs, 2013, , 217-237.	0.6	4
99	Transposon Mutagenesis Identified Chromosomal and Plasmid Genes Essential for Adaptation of the Marine Bacterium Dinoroseobacter shibae to Anaerobic Conditions. Journal of Bacteriology, 2013, 195, 4769-4777.	2.2	26
100	Editorial: How multiplexed tools and approaches speed up the progress of metabolic engineering. Biotechnology Journal, 2013, 8, 506-507.	3.5	5
101	Reconciling in vivo and in silico key biological parameters of Pseudomonas putidaKT2440 during growth on glucose under carbon-limited condition. BMC Biotechnology, 2013, 13, 93.	3.3	48
102	Customization of Aspergillus niger Morphology Through Addition of Talc Micro Particles. Journal of Visualized Experiments, 2012, , .	0.3	21
103	Microparticle based morphology engineering of filamentous microorganisms for industrial bio-production. Biotechnology Letters, 2012, 34, 1975-1982.	2.2	38
104	Improved assessment of aggregate size in Taxus plant cell suspension cultures using laser diffraction. Engineering in Life Sciences, 2012, 12, 595-602.	3.6	8
105	Consequences of phosphoenolpyruvate:sugar phosphotranferase system and pyruvate kinase isozymes inactivation in central carbon metabolism flux distribution in Escherichia coli. Microbial Cell Factories, 2012, 11, 127.	4.0	70
106	Bio-based production of chemicals, materials and fuels – Corynebacterium glutamicum as versatile cell factory. Current Opinion in Biotechnology, 2012, 23, 631-640.	6.6	329
107	Systems and synthetic metabolic engineering for amino acid production – the heartbeat of industrial strain development. Current Opinion in Biotechnology, 2012, 23, 718-726.	6.6	210
108	Systems Metabolic Engineering of Corynebacterium glutamicum for Biobased Production of Chemicals, Materials and Fuels. , 2012, , 151-191.		4

Systems Metabolic Engineering of Corynebacterium Chemicals, Materials and Fuels. , 2012, , 151-191. 108

#	Article	IF	CITATIONS
109	Debottlenecking recombinant protein production in <i>Bacillus megaterium</i> under largeâ€scale conditions—targeted precursor feeding designed from metabolomics. Biotechnology and Bioengineering, 2012, 109, 1538-1550.	3.3	46
110	Integration of in vivo and in silico metabolic fluxes for improvement of recombinant protein production. Metabolic Engineering, 2012, 14, 47-58.	7.0	64
111	Improved enzyme production by bioâ€pellets of <i>Aspergillus niger</i> : Targeted morphology engineering using titanate microparticles. Biotechnology and Bioengineering, 2012, 109, 462-471.	3.3	139
112	Industrial biotechnology of Pseudomonas putida and related species. Applied Microbiology and Biotechnology, 2012, 93, 2279-2290.	3.6	290
113	Microbial production of the drugs violacein and deoxyviolacein: analytical development and strain comparison. Biotechnology Letters, 2012, 34, 717-720.	2.2	41
114	Systems Biology of Recombinant Protein Production Using Bacillus megaterium. Methods in Enzymology, 2011, 500, 165-195.	1.0	60
115	Bio-based production of the platform chemical 1,5-diaminopentane. Applied Microbiology and Biotechnology, 2011, 91, 1287-1296.	3.6	164
116	Metabolic engineering of cellular transport for overproduction of the platform chemical 1,5-diaminopentane in Corynebacterium glutamicum. Metabolic Engineering, 2011, 13, 617-627.	7.0	135
117	Metabolic engineering of <i>Corynebacterium glutamicum</i> for production of 1,5â€diaminopentane from hemicellulose. Biotechnology Journal, 2011, 6, 306-317.	3.5	127
118	From zero to hero—Design-based systems metabolic engineering of Corynebacterium glutamicum for l-lysine production. Metabolic Engineering, 2011, 13, 159-168.	7.0	528
119	Filamentous fungi in good shape: Microparticles for tailor-made fungal morphology and enhanced enzyme production. Bioengineered Bugs, 2011, 2, 100-104.	1.7	51
120	Systems level engineering of <i>Corynebacterium glutamicum</i> – Reprogramming translational efficiency for superior production. Engineering in Life Sciences, 2010, 10, 430-438.	3.6	47
121	Optimized bioprocess for production of fructofuranosidase by recombinant Aspergillus niger. Applied Microbiology and Biotechnology, 2010, 87, 2011-2024.	3.6	53
122	Metabolic fluxes and beyond—systems biology understanding and engineering of microbial metabolism. Applied Microbiology and Biotechnology, 2010, 88, 1065-1075.	3.6	90
123	Pyrazine Biosynthesis in <i>Corynebacterium glutamicum</i> . European Journal of Organic Chemistry, 2010, 2010, 2687-2695.	2.4	119
124	Morphology engineering of <i>Aspergillus niger</i> for improved enzyme production. Biotechnology and Bioengineering, 2010, 105, 1058-1068.	3.3	132
125	Systems-wide metabolic pathway engineering in Corynebacterium glutamicum for bio-based production of diaminopentane. Metabolic Engineering, 2010, 12, 341-351.	7.0	181
126	Identification and Elimination of the Competing <i>N</i> -Acetyldiaminopentane Pathway for Improved Production of Diaminopentane by <i>Corynebacterium glutamicum</i> . Applied and Environmental Microbiology, 2010, 76, 5175-5180.	3.1	111

#	Article	IF	CITATIONS
127	Morphology and Rheology in Filamentous Cultivations. Advances in Applied Microbiology, 2010, 72, 89-136.	2.4	100
128	Analysis and Engineering of Metabolic Pathway Fluxes in Corynebacterium glutamicum. , 2010, 120, 21-49.		15
129	Towards methionine overproduction in Corynebacterium glutamicum - methanethiol and dimethyldisulfide as reduced sulfur sources. Journal of Microbiology and Biotechnology, 2010, 20, 1196-1203.	2.1	56
130	Metabolic Engineering of the Tricarboxylic Acid Cycle for Improved Lysine Production by Corynebacterium glutamicum. Applied and Environmental Microbiology, 2009, 75, 7866-7869.	3.1	104
131	Metabolic fluxes in the central carbon metabolism of Dinoroseobacter shibae and Phaeobacter gallaeciensis, two members of the marine Roseobacter clade. BMC Microbiology, 2009, 9, 209.	3.3	51
132	Flux Design: In silico design of cell factories based on correlation of pathway fluxes to desired properties. BMC Systems Biology, 2009, 3, 120.	3.0	80
133	Metabolite profiling studies in Saccharomyces cerevisiae: an assisting tool to prioritize host targets for antiviral drug screening. Microbial Cell Factories, 2009, 8, 12.	4.0	21
134	OpenFLUX: efficient modelling software for 13C-based metabolic flux analysis. Microbial Cell Factories, 2009, 8, 25.	4.0	218
135	GC–MS for Metabolic Flux Analysis. , 2009, , .		Ο
136	Investigation of the Central Carbon Metabolism of Sorangium cellulosum:Metabolic Network Reconstruction and Quantification of Pathway Fluxes. Journal of Microbiology and Biotechnology, 2009, , .	2.1	4
137	Investigation of the central carbon metabolism of Sorangium cellulosum: metabolic network reconstruction and quantification of pathway fluxes. Journal of Microbiology and Biotechnology, 2009, 19, 23-36.	2.1	18
138	The yeast Kluyveromyces marxianus and its biotechnological potential. Applied Microbiology and Biotechnology, 2008, 79, 339-354.	3.6	440
139	Appropriate sampling for intracellular amino acid analysis in five phylogenetically different yeasts. Biotechnology Letters, 2008, 30, 1993-2000.	2.2	57
140	Measurement of isotopic enrichments in 13C-labelled molecules by 1D selective Zero-Quantum Filtered TOCSY NMR experiments. Comptes Rendus Chimie, 2008, 11, 480-485.	0.5	5
141	Analysis of 13C labeling enrichment in microbial culture applying metabolic tracer experiments using gas chromatography–combustion–isotope ratio mass spectrometry. Analytical Biochemistry, 2008, 380, 202-210.	2.4	39
142	Metabolic responses to pyruvate kinase deletion in lysine producing Corynebacterium glutamicum. Microbial Cell Factories, 2008, 7, 8.	4.0	84
143	Physiological response of Corynebacterium glutamicum to oxidative stress induced by deletion of the transcriptional repressor McbR. Microbiology (United Kingdom), 2008, 154, 3917-3930.	1.8	57
144	Transcriptional and Metabolic Responses of <i>Bacillus subtilis</i> to the Availability of Organic Acids: Transcription Regulation Is Important but Not Sufficient To Account for Metabolic Adaptation. Applied and Environmental Microbiology, 2007, 73, 499-507.	3.1	76

#	Article	IF	CITATIONS
145	Response of the central metabolism of <i>Escherichia coli</i> to modified expression of the gene encoding the glucoseâ€6â€phosphate dehydrogenase. FEBS Letters, 2007, 581, 3771-3776.	2.8	65
146	Metabolic flux engineering of l-lysine production in Corynebacterium glutamicum—over expression and modification of G6P dehydrogenase. Journal of Biotechnology, 2007, 132, 99-109.	3.8	162
147	Response of fluxome and metabolome to temperature-induced recombinant protein synthesis in Escherichia coli. Journal of Biotechnology, 2007, 132, 375-384.	3.8	78
148	Effect of different carbon sources on central metabolic fluxes and the recombinant production of a hydrolase from Thermobifida fusca in Bacillus megaterium. Journal of Biotechnology, 2007, 132, 385-394.	3.8	40
149	Metabolic flux screening of Saccharomyces cerevisiae single knockout strains on glucose and galactose supports elucidation of gene function. Journal of Biotechnology, 2007, 132, 395-404.	3.8	31
150	Fluxome analysis using GC-MS. Microbial Cell Factories, 2007, 6, 6.	4.0	196
151	Sampling for Metabolome Analysis of Microorganisms. Analytical Chemistry, 2007, 79, 3843-3849.	6.5	344
152	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for metabolic flux analyses using isotope-labeled ethanol. Rapid Communications in Mass Spectrometry, 2007, 21, 336-342.	1.5	9
153	Complete genome sequence of the myxobacterium Sorangium cellulosum. Nature Biotechnology, 2007, 25, 1281-1289.	17.5	354
154	Physiology of the yeastKluyveromyces marxianusduring batch and chemostat cultures with glucose as the sole carbon source. FEMS Yeast Research, 2007, 7, 422-435.	2.3	118
155	The I-Lysine Story: From Metabolic Pathways to Industrial Production. , 2007, , 39-70.		60
156	Standard reporting requirements for biological samples in metabolomics experiments: microbial and inÂvitro biology experiments. Metabolomics, 2007, 3, 189-194.	3.0	50
157	Metabolic screening of Saccharomyces cerevisiae single knockout strains reveals unexpected mobilization of metabolic potential. Process Biochemistry, 2006, 41, 2170-2179.	3.7	16
158	Metabolic physiology of Pseudomonas putida for heterologous production of myxochromide. Process Biochemistry, 2006, 41, 2146-2152.	3.7	15
159	Metabolic pathway analysis for rational design of L-methionine production by Escherichia coli and Corynebacterium glutamicum. Metabolic Engineering, 2006, 8, 353-369.	7.0	143
160	Respirometric 13C flux analysis, Part I: Design, construction and validation of a novel multiple reactor system using on-line membrane inlet mass spectrometry. Metabolic Engineering, 2006, 8, 417-431.	7.0	37
161	Respirometric 13C flux analysis—Part II: In vivo flux estimation of lysine-producing Corynebacterium glutamicum. Metabolic Engineering, 2006, 8, 432-446.	7.0	44
162	Comparative study on central metabolic fluxes of Bacillus megaterium strains in continuous culture using 13C labelled substrates. Bioprocess and Biosystems Engineering, 2006, 30, 47-59.	3.4	26

#	Article	IF	CITATIONS
163	Quantification of S-adenosyl Methionine in Microbial Cell Extracts. Biotechnology Letters, 2006, 28, 69-71.	2.2	3
164	Accumulation of Homolanthionine and Activation of a Novel Pathway for Isoleucine Biosynthesis in C orynebacterium glutamicum McbR Deletion Strains. Journal of Bacteriology, 2006, 188, 609-618.	2.2	48
165	In vivo quantification of intracellular amino acids and intermediates of the methionine pathway in Corynebacterium glutamicum. Analytical Biochemistry, 2005, 340, 171-173.	2.4	87
166	Application of cation-exchange membranes for characterisation and imaging ammonia-oxidising bacteria in soils. FEMS Microbiology Ecology, 2005, 53, 463-472.	2.7	9
167	Theoretical aspects of 13C metabolic flux analysis with sole quantification of carbon dioxide labeling. Computational Biology and Chemistry, 2005, 29, 121-133.	2.3	53
168	Amplified Expression of Fructose 1,6-Bisphosphatase in Corynebacterium glutamicum Increases In Vivo Flux through the Pentose Phosphate Pathway and Lysine Production on Different Carbon Sources. Applied and Environmental Microbiology, 2005, 71, 8587-8596.	3.1	209
169	Dynamics of intracellular metabolites of glycolysis and TCA cycle during cell-cycle-related oscillation inSaccharomyces cerevisiae. Biotechnology and Bioengineering, 2005, 89, 839-847.	3.3	59
170	Characterization of the metabolic shift between oxidative and fermentative growth in Saccharomyces cerevisiae by comparative 13C flux analysis. Microbial Cell Factories, 2005, 4, 30.	4.0	163
171	Metabolic Activity Profiling by 13C Tracer Experiments and Mass Spectrometry in Corynebacterium glutamicum. , 2005, , 191-204.		3
172	Metabolic Fluxes in <i>Corynebacterium glutamicum</i> during Lysine Production with Sucrose as Carbon Source. Applied and Environmental Microbiology, 2004, 70, 7277-7287.	3.1	95
173	Areal activities and stratification of hydrolytic enzymes involved in the biochemical cycles of carbon, nitrogen, sulphur and phosphorus in podsolized boreal forest soils. Soil Biology and Biochemistry, 2004, 36, 425-433.	8.8	116
174	Review: Minibioreactors. Biotechnology Letters, 2004, 26, 1-10.	2.2	159
175	Metabolic network analysis of lysine producingCorynebacterium glutamicum at a miniaturized scale. Biotechnology and Bioengineering, 2004, 87, 1-6.	3.3	66
176	Metabolic network simulation using logical loop algorithm and Jacobian matrix. Metabolic Engineering, 2004, 6, 256-267.	7.0	17
177	Impact of the cold shock phenomenon on quantification of intracellular metabolites in bacteria. Analytical Biochemistry, 2004, 327, 135-139.	2.4	225
178	Comparative Metabolic Flux Analysis of Lysine-Producing <i>Corynebacterium glutamicum</i> Cultured on Glucose or Fructose. Applied and Environmental Microbiology, 2004, 70, 229-239.	3.1	184
179	In-Depth Profiling of Lysine-Producing Corynebacterium glutamicum by Combined Analysis of the Transcriptome, Metabolome, and Fluxome. Journal of Bacteriology, 2004, 186, 1769-1784.	2.2	200
180	Characterization and application of an optical sensor for quantification of dissolved O2 in shake-flasks. Biotechnology Letters, 2003, 25, 377-380.	2.2	90

CHRISTOPH WITTMANN

#	Article	IF	CITATIONS
181	Integrated optical sensing of dissolved oxygen in microtiter plates: A novel tool for microbial cultivation. Biotechnology and Bioengineering, 2003, 81, 829-836.	3.3	178
182	Free intracellular amino acid pools during autonomous oscillations inSaccharomyces cerevisiae. Biotechnology and Bioengineering, 2003, 82, 143-151.	3.3	52
183	Dynamic calibration and dissolved gas analysis using membrane inlet mass spectrometry for the quantification of cell respiration. Rapid Communications in Mass Spectrometry, 2003, 17, 2721-2731.	1.5	16
184	Software tool for automated processing of ¹³ C labeling data from mass spectrometric spectra. BioTechniques, 2003, 35, 1214-1215.	1.8	7
185	Genealogy Profiling through Strain Improvement by Using Metabolic Network Analysis: Metabolic Flux Genealogy of Several Generations of Lysine-Producing Corynebacteria. Applied and Environmental Microbiology, 2002, 68, 5843-5859.	3.1	172
186	Mineralization of detritus and oxidation of methane in acid boreal coniferous forest soils: seasonal and vertical distribution and effects of clear-cut. Soil Biology and Biochemistry, 2002, 34, 1191-1200.	8.8	35
187	Derivatization of small biomolecules for optimized matrix-assisted laser desorption/ionization mass spectrometry, Journal of Mass Spectrometry, 2002, 37, 963-973.	1.6	61
188	Correcting mass isotopomer distributions for naturally occurring isotopes. Biotechnology and Bioengineering, 2002, 80, 477-479.	3.3	213
189	Metabolic physiology of aroma-producingKluyveromyces marxianus. Yeast, 2002, 19, 1351-1363.	1.7	86
190	In vivo analysis of intracellular amino acid labelings by GC/MS. Analytical Biochemistry, 2002, 307, 379-382.	2.4	97
191	Quantification of intracellular amino acids in batch cultures of Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 2001, 56, 776-779.	3.6	79
192	Application of MALDI-TOF MS to lysine-producing Corynebacterium glutamicum. FEBS Journal, 2001, 268, 2441-2455.	0.2	108
193	MALDI-TOF MS for quantification of substrates and products in cultivations ofCorynebacterium glutamicum. Biotechnology and Bioengineering, 2001, 72, 642-647.	3.3	59
194	Modeling and Experimental Design for Metabolic Flux Analysis of Lysine-Producing Corynebacteria by Mass Spectrometry. Metabolic Engineering, 2001, 3, 173-191.	7.0	83
195	Mass spectrometry for metabolic flux analysis. , 1999, 62, 739-750.		155
196	Mass spectrometry for metabolic flux analysis. Biotechnology and Bioengineering, 1999, 62, 739.	3.3	3
197	Integrative Assessment of Sediment Quality History in Pulp Mill Recipient Area in Finland. Water Science and Technology, 1999, 40, 139-146.	2.5	4
198	Growth inhibition by ammonia and use of a pH-controlled feeding strategy for the effective cultivation of Mycobacterium chlorophenolicum. Applied Microbiology and Biotechnology, 1995, 44, 519-525.	3.6	93

#	Article	IF	CITATIONS
199	Minimal nutrient requirement for growth ofMycobacterium chlorophenolicum. Biotechnology Letters, 1994, 16, 1103-1106.	2.2	4
200	Editorial: Engineering Corynebacterium glutamicum Chassis for Synthetic Biology, Biomanufacturing, and Bioremediation. Frontiers in Bioengineering and Biotechnology, 0, 10, .	4.1	0