Christoph Wittmann

List of Publications by Year in Descending Order

233 papers	12,849 citations	67 h-index	106 g-index
256 ext. papers	14,773 ext. citations	6.1 avg, IF	6.89 L-index

#	Paper	IF	Citations
233	Recombinant production of the lantibiotic nisin using Corynebacterium glutamicum in a two-step process.. *Microbial Cell Factories*, **2022**, 21, 11	6.4	1
232	Co-cultures of Propionibacterium freudenreichii and Bacillus amyloliquefaciens cooperatively upgrade sunflower seed milk to high levels of vitamin B and multiple co-benefits.. *Microbial Cell Factories*, **2022**, 21, 48	6.4	0
231	GC/MS-based C 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	6.4	0
230	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	9.7	1
229	Guiding stars to the field of dreams: Metabolically engineered pathways and microbial platforms for a sustainable lignin-based industry. *Metabolic Engineering*, **2021**,	9.7	2
228	Channelling carbon flux through the meta-cleavage route for improved poly(3-hydroxyalkanoate) production from benzoate and lignin-based aromatics in Pseudomonas putida H. *Microbial Biotechnology*, **2021**, 14, 2385-2402	6.3	2
227	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	4.9	4
226	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	6.4	4
225	Metabolic Engineering of Corynebacterium glutamicum **2021**, 403-468		
224	Superior production of heavy pamamycin derivatives using a bkdR deletion mutant of Streptomyces albus J1074/R2. *Microbial Cell Factories*, **2021**, 20, 111	6.4	1
223	Microbial production of polyunsaturated fatty acids - high-value ingredients for aquafeed, superfoods, and pharmaceuticals. *Current Opinion in Biotechnology*, **2021**, 69, 199-211	11.4	25
222	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	7.8	2
221	Advances in metabolic engineering of Corynebacterium glutamicum to produce high-value active ingredients for food, feed, human health, and well-being. *Essays in Biochemistry*, **2021**, 65, 197-212	7.6	14
220	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	9.7	5
219	Engineering the precursor pool to modulate the production of pamamycins in the heterologous host S. albus J1074. *Metabolic Engineering*, **2021**, 67, 11-18	9.7	1
218	Establishing recombinant production of pediocin PA-1 in Corynebacterium glutamicum. *Metabolic Engineering*, **2021**, 68, 34-45	9.7	4
217	Contextual Flexibility in Pseudomonas aeruginosa Central Carbon Metabolism during Growth in Single Carbon Sources. *MBio*, **2020**, 11,	7.8	22

216	Cascaded valorization of seaweed using microbial cell factories. *Current Opinion in Biotechnology*, **2020**, 65, 102-113	11.4	15
215	Microbial production of extremolytes - high-value active ingredients for nutrition, health care, and well-being. *Current Opinion in Biotechnology*, **2020**, 65, 118-128	11.4	26
214	Limited life cycle and cost assessment for the bioconversion of lignin-derived aromatics into adipic acid. *Biotechnology and Bioengineering*, **2020**, 117, 1381-1393	4.9	20
213	Glycolytic Shunts Replenish the Calvin-Benson-Bassham Cycle as Anaplerotic Reactions in Cyanobacteria. *Molecular Plant*, **2020**, 13, 471-482	14.4	21
212	Pathways at Work: Metabolic Flux Analysis of the Industrial Cell Factory Corynebacterium glutamicum. *Microbiology Monographs*, **2020**, 227-265	0.8	2
211	Convergent evolution of zoonotic 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	11.5	4
210	Industrial biotechnology of Pseudomonas putida: advances and prospects. *Applied Microbiology and Biotechnology*, **2020**, 104, 7745-7766	5.7	38
209	A common approach for absolute quantification of short chain CoA thioesters in prokaryotic and eukaryotic microbes. *Microbial Cell Factories*, **2020**, 19, 160	6.4	10
208	Microparticles globally reprogram Streptomyces albus toward accelerated morphogenesis, streamlined carbon core metabolism, and enhanced production of the antituberculosis polyketide pamamycin. *Biotechnology and Bioengineering*, **2020**, 117, 3858-3875	4.9	9
207	Biochemistry, genetics and biotechnology of glycerol utilization in Pseudomonas species. *Microbial Biotechnology*, **2020**, 13, 32-53	6.3	44
206	Biotechnological Production of Organic Acids from Renewable Resources. *Advances in Biochemical Engineering/Biotechnology*, **2019**, 166, 373-410	1.7	12
205	Polyunsaturated fatty acid production by Yarrowia lipolytica employing designed myxobacterial PUFA synthases. *Nature Communications*, **2019**, 10, 4055	17.4	47
204	Metabolic Engineering of Corynebacterium glutamicum for High-Level Ectoine Production: Design, Combinatorial Assembly, and Implementation of a Transcriptionally Balanced Heterologous Ectoine Pathway. *Biotechnology Journal*, **2019**, 14, e1800417	5.6	28
203	GC-MS-based C metabolic flux analysis resolves the parallel and cyclic glucose metabolism of Pseudomonas putida KT2440 and Pseudomonas aeruginosa PAO1. *Metabolic Engineering*, **2019**, 54, 35-53	9.7	59
202	A field of dreams: Lignin valorization into chemicals, materials, fuels, and health-care products. *Biotechnology Advances*, **2019**, 37, 107360	17.8	169
201	Fermentation of plant-based milk alternatives for improved flavour and nutritional value. *Applied Microbiology and Biotechnology*, **2019**, 103, 9263-9275	5.7	111
200	Optoregulated Drug Release from an Engineered Living Material: Self-Replenishing Drug Depots for Long-Term, Light-Regulated Delivery. *Small*, **2019**, 15, e1804717	11	34
199	Improved riboflavin production with Ashbya gossypii from vegetable oil based on C metabolic network analysis with combined labeling analysis by GC/MS, LC/MS, 1D, and 2D NMR. *Metabolic Engineering*, **2018**, 47, 357-373	9.7	38

198	Anodic electro-fermentation: Anaerobic production of L-Lysine by recombinant Corynebacterium glutamicum. *Biotechnology and Bioengineering*, **2018**, 115, 1499-1508	4.9	38
197	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	9.7	46
196	From lignin to nylon: Cascaded chemical and biochemical conversion using metabolically engineered Pseudomonas putida. *Metabolic Engineering*, **2018**, 47, 279-293	9.7	140
195	Corynebacterium glutamicum for Sustainable Bioproduction: From Metabolic Physiology to Systems Metabolic Engineering. *Advances in Biochemical Engineering/Biotechnology*, **2018**, 162, 217-263	1.7	28
194	Towards better understanding of industrial cell factories: novel approaches for C metabolic flux analysis in complex nutrient environments. *Current Opinion in Biotechnology*, **2018**, 54, 128-137	11.4	21
193	Metabolic engineering of Corynebacterium glutamicum for the production of cis, cis-muconic acid from lignin. *Microbial Cell Factories*, **2018**, 17, 115	6.4	97
192	Metabolically engineered Corynebacterium glutamicum for bio-based production of chemicals, fuels, materials, and healthcare products. *Metabolic Engineering*, **2018**, 50, 122-141	9.7	120
191	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	9.7	76
190	A bio-based route to the carbon-5 chemical glutaric acid and to bionylon-6,5 using metabolically engineered Corynebacterium glutamicum. *Green Chemistry*, **2018**, 20, 4662-4674	10	46
189	Metabolic flux analysis in Ashbya gossypii using C-labeled yeast extract: industrial riboflavin production under complex nutrient conditions. *Microbial Cell Factories*, **2018**, 17, 162	6.4	19
188	From systems biology to metabolically engineered cells-an omics perspective on the development of industrial microbes. *Current Opinion in Microbiology*, **2018**, 45, 180-188	7.9	41
187	Bio-based succinate from sucrose: High-resolution C metabolic flux analysis and metabolic engineering of the rumen bacterium Basfia succiniciproducens. *Metabolic Engineering*, **2017**, 44, 198-212	9.7	34
186	Use of Single-Frequency Impedance Spectroscopy to Characterize the Growth Dynamics of Biofilm Formation in Pseudomonas aeruginosa. *Scientific Reports*, **2017**, 7, 5223	4.9	31
185	Host Organism: Streptomyces **2016**, 487-504		2
184	Solid-State Fermentation **2016**, 187-204		1
183	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	6.4	88
182	In silico metabolic network analysis of Arabidopsis leaves. *BMC Systems Biology*, **2016**, 10, 102	3.5	10
181	Integrated analysis of gene expression and metabolic fluxes in PHA-producing Pseudomonas putida grown on glycerol. *Microbial Cell Factories*, **2016**, 15, 73	6.4	52

180	Biotechnology of riboflavin. *Applied Microbiology and Biotechnology*, **2016**, 100, 2107-19	5.7	97
179	Novel Approach for High-Throughput Metabolic Screening of Whole Plants by Stable Isotopes. *Plant Physiology*, **2016**, 171, 25-41	6.6	16
178	Green pathways: Metabolic network analysis of plant systems. *Metabolic Engineering*, **2016**, 34, 1-24	9.7	19
177	A Precise Temperature-Responsive Bistable Switch Controlling Yersinia Virulence. *PLoS Pathogens*, **2016**, 12, e1006091	7.6	16
176	Proteome and carbon flux analysis of Pseudomonas aeruginosa clinical isolates from different infection sites. *Proteomics*, **2016**, 16, 1381-5	4.8	12
175	Industrial-Scale Fermentation **2016**, 1-53		4
174	Glutamic Acid Fermentation: Discovery of Glutamic Acid-Producing Microorganisms, Analysis of the Production Mechanism, Metabolic Engineering, and Industrial Production Process **2016**, 339-360		6
173	L-Lysine **2016**, 361-390		2
172	Diamines for Bio-Based Materials **2016**, 391-409		1
171	Microbial Production of 3-Hydroxypropionic Acid **2016**, 411-451		1
170	Itaconic Acid An Emerging Building Block **2016**, 453-472		5
169	Microbial Production of Isoprene: Opportunities and Challenges **2016**, 473-504		2
168	Succinic Acid **2016**, 505-544		3
167	Ethanol: A Model Biorenewable Fuel **2016**, 547-572		1
166	Microbial Production of Butanols **2016**, 573-595		
165	Scale-Down: Simulating Large-Scale Cultures in the Laboratory **2016**, 55-79		4
164	Bioreactor Modeling **2016**, 81-128		1
163	Cell Culture Technology **2016**, 129-158		2

162	Anticancer Drugs **2016**, 237-269	
161	Biotechnological Production of Flavors **2016**, 271-308	2
160	Industrial Microorganisms: Pichia pastoris **2016**, 687-714	4
159	Industrial Microorganisms: Corynebacterium glutamicum **2016**, 183-220	12
158	Production of Fuels and Chemicals from Biomass by Integrated Bioprocesses **2016**, 159-186	
157	Nutraceuticals (Vitamin C, Carotenoids, Resveratrol) **2016**, 309-336	3
156	Cell Immobilization: Fundamentals, Technologies, and Applications **2016**, 205-235	7
155	Host Organisms: Algae **2016**, 605-641	1
154	Industrial Microorganisms: Saccharomyces cerevisiae and other Yeasts **2016**, 673-686	0
153	History of Industrial Biotechnology **2016**, 1-84	6
152	Advances in Consolidated Bioprocessing Using Clostridium thermocellum and Thermoanaerobacter saccharolyticum **2016**, 365-394	24
151	Lactic Acid Bacteria **2016**, 395-451	4
150	Host Organisms: Myxobacterium **2016**, 453-485	2
149	Extreme Thermophiles as Metabolic Engineering Platforms: Strategies and Current Perspective **2016**, 505-580	3
148	Cyanobacteria as a Host Organism **2016**, 581-604	4
147	Host Organisms: Mammalian Cells **2016**, 643-671	1
146	Synthetic Biology: An Emerging Approach for Strain Engineering **2016**, 85-110	2
145	Toward Genome-Scale Metabolic Pathway Analysis **2016**, 111-123	2

144	Cell-Free Synthetic Systems for Metabolic Engineering and Biosynthetic Pathway Prototyping **2016**, 125-148		9
143	Industrial Biotechnology: Escherichia coli as a Host **2016**, 149-181		5
142	Host Organisms: Bacillus subtilis **2016**, 221-297		6
141	Host Organism: Pseudomonas putida **2016**, 299-326		3
140	Host Organisms: Clostridium acetobutylicum/Clostridium beijerinckii and Related Organisms **2016**, 327-364		
139	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	11.4	35
138	A roadmap for interpreting (13)C metabolite labeling patterns from cells. *Current Opinion in Biotechnology*, **2015**, 34, 189-201	11.4	368
137	Acetate Dissimilation and Assimilation in Mycobacterium tuberculosis Depend on Carbon Availability. *Journal of Bacteriology*, **2015**, 197, 3182-90	3.5	14
136	Large-Scale 13C 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, 2408-22	4.8	49
135	Top value platform chemicals: bio-based production of organic acids. *Current Opinion in Biotechnology*, **2015**, 36, 168-75	11.4	184
134	Biotechnologie von Morgen: metabolisch optimierte Zellen f□die bio-basierte Produktion von Chemikalien und Treibstoffen, Materialien und Gesundheitsprodukten. *Angewandte Chemie*, **2015**, 127, 3383-3407	3.6	20
133	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, 101-6	3.3	24
132	Advanced biotechnology: metabolically engineered cells for the bio-based production of chemicals and fuels, materials, and health-care products. *Angewandte Chemie - International Edition*, **2015**, 54, 3328-50	16.4	209
131	Adaptation of Bacillus subtilis carbon core metabolism to simultaneous nutrient limitation and osmotic challenge: a multi-omics perspective. *Environmental Microbiology*, **2014**, 16, 1898-917	5.2	61
130	From zero to hero - production of bio-based nylon from renewable resources using engineered Corynebacterium glutamicum. *Metabolic Engineering*, **2014**, 25, 113-23	9.7	202
129	Functionalization of magnetic nanoparticles with high-binding capacity for affinity separation of therapeutic proteins. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	12
128	The pyruvate-tricarboxylic acid cycle node: a focal point of virulence control in the enteric pathogen Yersinia pseudotuberculosis. *Journal of Biological Chemistry*, **2014**, 289, 30114-32	5.4	45
127	Sampling of intracellular metabolites for stationary and non-stationary (13)C metabolic flux analysis in Escherichia coli. *Analytical Biochemistry*, **2014**, 465, 38-49	3.1	42

126	The key to acetate: metabolic fluxes of acetic acid bacteria under cocoa pulp fermentation-simulating conditions. *Applied and Environmental Microbiology*, **2014**, 80, 4702-16	4.8	67
125	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, 2663-76		22
124	Systems metabolic engineering of Escherichia coli for gram scale production of the antitumor drug deoxyviolacein from glycerol. *Biotechnology and Bioengineering*, **2014**, 111, 2280-9	4.9	37
123	First and Second Generation Production of Bio-Adipic Acid **2014**, 519-540		7
122	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	3.7	8
121	Robustness and plasticity of metabolic pathway flux among uropathogenic isolates of Pseudomonas aeruginosa. *PLoS ONE*, **2014**, 9, e88368	3.7	50
120	Erythritol feeds the pentose phosphate pathway via three new isomerases leading to D-erythrose-4-phosphate in Brucella. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 17815-20	11.5	35
119	Production of medium chain length polyhydroxyalkanoate in metabolic flux optimized Pseudomonas putida. *Microbial Cell Factories*, **2014**, 13, 88	6.4	76
118	Gene regulatory and metabolic adaptation processes of Dinoroseobacter shibae DFL12T during oxygen depletion. *Journal of Biological Chemistry*, **2014**, 289, 13219-31	5.4	21
117	GC-MS-based □□C metabolic flux analysis. *Methods in Molecular Biology*, **2014**, 1191, 165-74	1.4	3
116	Systems-wide analysis and engineering of metabolic pathway fluxes in bio-succinate producing Basfia succiniciproducens. *Biotechnology and Bioengineering*, **2013**, 110, 3013-23	4.9	77
115	Production of non-proteinogenic amino acids from □keto acid precursors with recombinant Corynebacterium glutamicum. *Biotechnology and Bioengineering*, **2013**, 110, 2846-55	4.9	14
114	Membrane fluidity of halophilic ectoine-secreting bacteria related to osmotic and thermal treatment. *Bioprocess and Biosystems Engineering*, **2013**, 36, 1829-41	3.7	7
113	Oxygen supply in disposable shake-flasks: prediction of oxygen transfer rate, oxygen saturation and maximum cell concentration during aerobic growth. *Biotechnology Letters*, **2013**, 35, 1223-30	3	25
112	High yield production of extracellular recombinant levansucrase by Bacillus megaterium. *Applied Microbiology and Biotechnology*, **2013**, 97, 3343-53	5.7	25
111	Systems metabolic engineering of Escherichia coli for production of the antitumor drugs violacein and deoxyviolacein. *Metabolic Engineering*, **2013**, 20, 29-41	9.7	85
110	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, 544-54	11	101
109	In-silico-driven metabolic engineering of Pseudomonas putida for enhanced production of poly-hydroxyalkanoates. *Metabolic Engineering*, **2013**, 15, 113-23	9.7	133

108	Metabolic Flux Analysis **2013**, 285-312		3
107	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, 184-95	9.7	83
106	Characterization and control of fungal morphology for improved production performance in biotechnology. *Journal of Biotechnology*, **2013**, 163, 112-23	3.7	145
105	Systems metabolic engineering of xylose-utilizing Corynebacterium glutamicum for production of 1,5-diaminopentane. *Biotechnology Journal*, **2013**, 8, 557-70	5.6	90
104	Ectoine production byAlkalibacillus haloalkaliphilus-Bioprocess development using response surface methodology and model-driven strategies. *Engineering in Life Sciences*, **2013**, 13, 399-407	3.4	4
103	Getting the big beast to work--systems biotechnology of Bacillus megaterium for novel high-value proteins. *Journal of Biotechnology*, **2013**, 163, 87-96	3.7	36
102	Systems metabolic engineering of Corynebacterium glutamicum for production of the chemical chaperone ectoine. *Microbial Cell Factories*, **2013**, 12, 110	6.4	66
101	Core fluxome and metafluxome of lactic acid bacteria under simulated cocoa pulp fermentation conditions. *Applied and Environmental Microbiology*, **2013**, 79, 5670-81	4.8	49
100	Pathways at Work: Metabolic Flux Analysis of the Industrial Cell Factory Corynebacterium glutamicum. *Microbiology Monographs*, **2013**, 217-237	0.8	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, 4769-77	3.5	19
98	Reconciling in vivo and in silico key biological parameters of Pseudomonas putida KT2440 during growth on glucose under carbon-limited condition. *BMC Biotechnology*, **2013**, 13, 93	3.5	40
97	Integration of in vivo and in silico metabolic fluxes for improvement of recombinant protein production. *Metabolic Engineering*, **2012**, 14, 47-58	9.7	54
96	Improved enzyme production by bio-pellets of Aspergillus niger: targeted morphology engineering using titanate microparticles. *Biotechnology and Bioengineering*, **2012**, 109, 462-71	4.9	118
95	Industrial biotechnology of Pseudomonas putida and related species. *Applied Microbiology and Biotechnology*, **2012**, 93, 2279-90	5.7	230
94	Microbial production of the drugs violacein and deoxyviolacein: analytical development and strain comparison. *Biotechnology Letters*, **2012**, 34, 717-20	3	31
93	Microparticle based morphology engineering of filamentous microorganisms for industrial bio-production. *Biotechnology Letters*, **2012**, 34, 1975-82	3	32
92	Improved assessment of aggregate size in Taxus plant cell suspension cultures using laser diffraction. *Engineering in Life Sciences*, **2012**, 12, 595-602	3.4	7
91	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	6.4	56

90	Bio-based production of chemicals, materials and fuels -Corynebacterium glutamicum as versatile cell factory. *Current Opinion in Biotechnology*, **2012**, 23, 631-40	11.4	280
89	Systems and synthetic metabolic engineering for amino acid production - the heartbeat of industrial strain development. *Current Opinion in Biotechnology*, **2012**, 23, 718-26	11.4	176
88	Systems Metabolic Engineering of Corynebacterium glutamicum for Biobased Production of Chemicals, Materials and Fuels **2012**, 151-191		3
87	Debottlenecking recombinant protein production in Bacillus megaterium under large-scale conditions--targeted precursor feeding designed from metabolomics. *Biotechnology and Bioengineering*, **2012**, 109, 1538-50	4.9	42
86	Customization of Aspergillus niger morphology through addition of talc micro particles. *Journal of Visualized Experiments*, **2012**,	1.6	15
85	Systems biology of recombinant protein production using Bacillus megaterium. *Methods in Enzymology*, **2011**, 500, 165-95	1.7	47
84	Bio-based production of the platform chemical 1,5-diaminopentane. *Applied Microbiology and Biotechnology*, **2011**, 91, 1287-96	5.7	140
83	Metabolic engineering of cellular transport for overproduction of the platform chemical 1,5-diaminopentane in Corynebacterium glutamicum. *Metabolic Engineering*, **2011**, 13, 617-27	9.7	121
82	Metabolic engineering of Corynebacterium glutamicum for production of 1,5-diaminopentane from hemicellulose. *Biotechnology Journal*, **2011**, 6, 306-17	5.6	107
81	Design maßgeschneiderter Zellfabriken für die nachhaltige Produktion. *BioSpektrum*, **2011**, 17, 472-474	0.1	
80	From zero to hero--design-based systems metabolic engineering of Corynebacterium glutamicum for L-lysine production. *Metabolic Engineering*, **2011**, 13, 159-68	9.7	432
79	Filamentous fungi in good shape: microparticles for tailor-made fungal morphology and enhanced enzyme production. *Bioengineered Bugs*, **2011**, 2, 100-4		44
78	Identification and elimination of the competing N-acetyldiaminopentane pathway for improved production of diaminopentane by Corynebacterium glutamicum. *Applied and Environmental Microbiology*, **2010**, 76, 5175-80	4.8	99
77	Morphology and rheology in filamentous cultivations. *Advances in Applied Microbiology*, **2010**, 72, 89-136	4.9	83
76	Analysis and engineering of metabolic pathway fluxes in Corynebacterium glutamicum. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 120, 21-49	1.7	14
75	Systems level engineering of Corynebacterium glutamicum - Reprogramming translational efficiency for superior production. *Engineering in Life Sciences*, **2010**, 10, 430-438	3.4	37
74	Optimized bioprocess for production of fructofuranosidase by recombinant Aspergillus niger. *Applied Microbiology and Biotechnology*, **2010**, 87, 2011-24	5.7	47
73	Metabolic fluxes and beyond-systems biology understanding and engineering of microbial metabolism. *Applied Microbiology and Biotechnology*, **2010**, 88, 1065-75	5.7	79

72	Pyrazine Biosynthesis in Corynebacterium glutamicum. *European Journal of Organic Chemistry*, **2010**, 2010, 2687-2695	3.2	88
71	Morphology engineering of Aspergillus niger for improved enzyme production. *Biotechnology and Bioengineering*, **2010**, 105, 1058-68	4.9	102
70	Systems-wide metabolic pathway engineering in Corynebacterium glutamicum for bio-based production of diaminopentane. *Metabolic Engineering*, **2010**, 12, 341-51	9.7	162
69	Towards methionine overproduction in Corynebacterium glutamicum--methanethiol and dimethyldisulfide as reduced sulfur sources. *Journal of Microbiology and Biotechnology*, **2010**, 20, 1196-203	2.3	40
68	Metabolic engineering of the tricarboxylic acid cycle for improved lysine production by Corynebacterium glutamicum. *Applied and Environmental Microbiology*, **2009**, 75, 7866-9	4.8	95
67	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	4.5	45
66	Flux Design: In silico design of cell factories based on correlation of pathway fluxes to desired properties. *BMC Systems Biology*, **2009**, 3, 120	3.5	73
65	Metabolite profiling studies in Saccharomyces cerevisiae: an assisting tool to prioritize host targets for antiviral drug screening. *Microbial Cell Factories*, **2009**, 8, 12	6.4	17
64	OpenFLUX: efficient modelling software for 13C-based metabolic flux analysis. *Microbial Cell Factories*, **2009**, 8, 25	6.4	191
63	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	3.3	17
62	Metabolic responses to pyruvate kinase deletion in lysine producing Corynebacterium glutamicum. *Microbial Cell Factories*, **2008**, 7, 8	6.4	71
61	Physiological response of Corynebacterium glutamicum to oxidative stress induced by deletion of the transcriptional repressor McbR. *Microbiology (United Kingdom)*, **2008**, 154, 3917-3930	2.9	51
60	The yeast Kluyveromyces marxianus and its biotechnological potential. *Applied Microbiology and Biotechnology*, **2008**, 79, 339-54	5.7	361
59	Appropriate sampling for intracellular amino acid analysis in five phylogenetically different yeasts. *Biotechnology Letters*, **2008**, 30, 1993-2000	3	53
58	Measurement of isotopic enrichments in 13C-labelled molecules by 1D selective Zero-Quantum Filtered TOCSY NMR experiments. *Comptes Rendus Chimie*, **2008**, 11, 480-485	2.7	5
57	Analysis of 13C labeling enrichment in microbial culture applying metabolic tracer experiments using gas chromatography-combustion-isotope ratio mass spectrometry. *Analytical Biochemistry*, **2008**, 380, 202-10	3.1	34
56	Fluxome analysis using GC-MS. *Microbial Cell Factories*, **2007**, 6, 6	6.4	170
55	Sampling for metabolome analysis of microorganisms. *Analytical Chemistry*, **2007**, 79, 3843-9	7.8	316

54	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, 336-42	2.2	8
53	Complete genome sequence of the myxobacterium Sorangium cellulosum. *Nature Biotechnology*, **2007**, 25, 1281-9	44.5	307
52	Physiology of the yeast Kluyveromyces marxianus during batch and chemostat cultures with glucose as the sole carbon source. *FEMS Yeast Research*, **2007**, 7, 422-35	3.1	87
51	The l-Lysine Story: From Metabolic Pathways to Industrial Production **2007**, 39-70		48
50	Standard reporting requirements for biological samples in metabolomics experiments: microbial and in vitro biology experiments. *Metabolomics*, **2007**, 3, 189-194	4.7	45
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