

# Bastian Blombach

## List of Publications by Year in descending order

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56  
papers

2,939  
citations

147566

31  
h-index

168136

53  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1917  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Corynebacterium glutamicum</i> Tailored for Efficient Isobutanol Production. Applied and Environmental Microbiology, 2011, 77, 3300-3310.	1.4	290
2	Bio-based production of organic acids with <i>Corynebacterium glutamicum</i> . Microbial Biotechnology, 2013, 6, 87-102.	2.0	154
3	L-Valine Production with Pyruvate Dehydrogenase Complex-Deficient <i>Corynebacterium glutamicum</i> . Applied and Environmental Microbiology, 2007, 73, 2079-2084.	1.4	135
4	<i>Corynebacterium glutamicum</i> tailored for high-yield L-valine production. Applied Microbiology and Biotechnology, 2008, 79, 471-479.	1.7	131
5	Using gas mixtures of CO, CO <sub>2</sub> and H <sub>2</sub> as microbial substrates: the do's and don'ts of successful technology transfer from laboratory to production scale. Microbial Biotechnology, 2018, 11, 606-625.	2.0	126
6	High Substrate Uptake Rates Empower <i>Vibrio natriegens</i> as Production Host for Industrial Biotechnology. Applied and Environmental Microbiology, 2017, 83, .	1.4	112
7	Engineering <i>Corynebacterium glutamicum</i> for the production of pyruvate. Applied Microbiology and Biotechnology, 2012, 94, 449-459.	1.7	108
8	Carbohydrate metabolism in <i>Corynebacterium glutamicum</i> and applications for the metabolic engineering of L-lysine production strains. Applied Microbiology and Biotechnology, 2010, 86, 1313-1322.	1.7	102
9	Application of a Genetically Encoded Biosensor for Live Cell Imaging of L-Valine Production in Pyruvate Dehydrogenase Complex-Deficient <i>Corynebacterium glutamicum</i> Strains. PLoS ONE, 2014, 9, e85731.	1.1	100
10	Platform Engineering of <i>Corynebacterium glutamicum</i> with Reduced Pyruvate Dehydrogenase Complex Activity for Improved Production of L-Lysine, L-Valine, and 2-Ketoisovalerate. Applied and Environmental Microbiology, 2013, 79, 5566-5575.	1.4	98
11	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for 2-Ketoisovalerate Production. Applied and Environmental Microbiology, 2010, 76, 8053-8061.	1.4	97
12	Current knowledge on isobutanol production with <i>Escherichia coli</i> , <i>Bacillus subtilis</i> and <i>Corynebacterium glutamicum</i> . Bioengineered Bugs, 2011, 2, 346-350.	2.0	87
13	Comparative <sup>13</sup> C Metabolic Flux Analysis of Pyruvate Dehydrogenase Complex-Deficient, L-Valine-Producing <i>Corynebacterium glutamicum</i> . Applied and Environmental Microbiology, 2011, 77, 6644-6652.	1.4	70
14	Cell-Free Protein Synthesis From Fast-Growing <i>Vibrio natriegens</i> . Frontiers in Microbiology, 2018, 9, 1146.	1.5	69
15	Importance of NADPH supply for improved L-Valine formation in <i>Corynebacterium glutamicum</i> . Biotechnology Progress, 2010, 26, 361-371.	1.3	67
16	CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> perturbations of simulated large scale gradients in a scale-down device cause fast transcriptional responses in <i>Corynebacterium glutamicum</i> . Applied Microbiology and Biotechnology, 2014, 98, 8563-8572.	1.7	63
17	Effect of pyruvate dehydrogenase complex deficiency on L-lysine production with <i>Corynebacterium glutamicum</i> . Applied Microbiology and Biotechnology, 2007, 76, 615-623.	1.7	60
18	Application of metabolic engineering for the biotechnological production of L-valine. Applied Microbiology and Biotechnology, 2014, 98, 5859-5870.	1.7	59

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19	Acetohydroxyacid Synthase, a Novel Target for Improvement of <i>Corynebacterium glutamicum</i> L-Lysine Production by Applied and Environmental Microbiology, 2009, 75, 419-427.	1.4	57
20	<i>Corynebacterium glutamicum</i> L-Valine Production during Growth of Pyruvate Dehydrogenase Complex- Deficient <i>Corynebacterium glutamicum</i> in the Presence of Ethanol or by Inactivation of the Transcriptional Regulator SugR. Applied and Environmental Microbiology, 2009, 75, 1197-1200.	1.4	55
21	Increased Glucose Utilization in <i>Corynebacterium glutamicum</i> by Use of Maltose, and Its Application for the Improvement of <i>Corynebacterium glutamicum</i> L-Valine Productivity. Applied and Environmental Microbiology, 2010, 76, 370-374.	1.4	48
22	CO <sub>2</sub> Intrinsic Product, Essential Substrate, and Regulatory Trigger of Microbial and Mammalian Production Processes. Frontiers in Bioengineering and Biotechnology, 2015, 3, 108.	2.0	45
23	The pyruvate dehydrogenase complex of <i>Corynebacterium glutamicum</i> : An attractive target for metabolic engineering. Journal of Biotechnology, 2014, 192, 339-345.	1.9	44
24	Carbon Flux Analysis by <sup>13</sup> C Nuclear Magnetic Resonance To Determine the Effect of CO <sub>2</sub> on Anaerobic Succinate Production by <i>Corynebacterium glutamicum</i> . Applied and Environmental Microbiology, 2014, 80, 3015-3024.	1.4	42
25	Metabolic engineering to guide evolution – Creating a novel mode for L-valine production with <i>Corynebacterium glutamicum</i> . Metabolic Engineering, 2018, 47, 31-41.	3.6	41
26	Impact of different CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> levels on metabolism and regulation in <i>Corynebacterium glutamicum</i> . Journal of Biotechnology, 2013, 168, 331-340.	1.9	40
27	Engineering <i>Corynebacterium glutamicum</i> for the production of 2,3-butanediol. Microbial Cell Factories, 2015, 14, 171.	1.9	38
28	Identification of the agr Peptide of <i>Listeria monocytogenes</i> . Frontiers in Microbiology, 2016, 7, 989.	1.5	36
29	Valorization of pyrolysis water: a biorefinery side stream, for 1,2-propanediol production with engineered <i>Corynebacterium glutamicum</i> . Biotechnology for Biofuels, 2017, 10, 277.	6.2	35
30	Improving the carbon balance of fermentations by total carbon analyses. Biochemical Engineering Journal, 2014, 90, 162-169.	1.8	34
31	Modular systems metabolic engineering enables balancing of relevant pathways for L-histidine production with <i>Corynebacterium glutamicum</i> . Biotechnology for Biofuels, 2019, 12, 65.	6.2	34
32	Harnessing novel chromosomal integration loci to utilize an organosolv-derived hemicellulose fraction for isobutanol production with engineered <i>Corynebacterium glutamicum</i> . Microbial Biotechnology, 2018, 11, 257-263.	2.0	33
33	<i>Vibrio natriegens</i> as Host for Expression of Multisubunit Membrane Protein Complexes. Frontiers in Microbiology, 2018, 9, 2537.	1.5	33
34	Exploiting unconventional prokaryotic hosts for industrial biotechnology. Trends in Biotechnology, 2022, 40, 385-397.	4.9	33
35	Generation of a Prophage-Free Variant of the Fast-Growing Bacterium <i>Vibrio natriegens</i> . Applied and Environmental Microbiology, 2019, 85, .	1.4	31
36	Continuous Adaptive Evolution of a Fast-Growing <i>Corynebacterium glutamicum</i> Strain Independent of Protocatechuate. Frontiers in Microbiology, 2019, 10, 1648.	1.5	29

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37	Exploiting <i>Hydrogenophaga pseudoflava</i> for aerobic syngas-based production of chemicals. <i>Metabolic Engineering</i> , 2019, 55, 220-230.	3.6	28
38	Metabolic engineering of <i>Vibrio natriegens</i> . <i>Essays in Biochemistry</i> , 2021, 65, 381-392.	2.1	28
39	Zero-growth bioprocesses: A challenge for microbial production strains and bioprocess engineering. <i>Engineering in Life Sciences</i> , 2017, 17, 27-35.	2.0	26
40	Physiological Response of <i>Corynebacterium glutamicum</i> to Increasingly Nutrient-Rich Growth Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 2058.	1.5	24
41	The RamA regulon: complex regulatory interactions in relation to central metabolism in <i>Corynebacterium glutamicum</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5901-5910.	1.7	23
42	RamB Is an Activator of the Pyruvate Dehydrogenase Complex Subunit E1p Gene in <i>Corynebacterium glutamicum</i> . <i>Journal of Molecular Microbiology and Biotechnology</i> , 2009, 16, 236-239.	1.0	20
43	Deciphering the Adaptation of <i>Corynebacterium glutamicum</i> in Transition from Aerobiosis via Microaerobiosis to Anaerobiosis. <i>Genes</i> , 2018, 9, 297.	1.0	19
44	Acetate-based production of itaconic acid with <i>Corynebacterium glutamicum</i> using an integrated pH-coupled feeding control. <i>Bioresource Technology</i> , 2022, 351, 126994.	4.8	19
45	Engineering <i>Pseudomonas putida</i> KT2440 for the production of isobutanol. <i>Engineering in Life Sciences</i> , 2020, 20, 148-159.	2.0	18
46	Metabolic engineering of <i>Vibrio natriegens</i> for anaerobic succinate production. <i>Microbial Biotechnology</i> , 2022, 15, 1671-1684.	2.0	17
47	Identifying the Growth Modulon of <i>Corynebacterium glutamicum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 974.	1.5	12
48	CO <sub>2</sub> /HCO <sub>3</sub> <sup>-</sup> Accelerates Iron Reduction through Phenolic Compounds. <i>MBio</i> , 2020, 11, .	1.8	11
49	Stereospecificity of <i>Corynebacterium glutamicum</i> 2,3-butanediol dehydrogenase and implications for the stereochemical purity of bioproduced 2,3-butanediol. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 10573-10583.	1.7	10
50	A Timed Off-Switch for Dynamic Control of Gene Expression in <i>Corynebacterium Glutamicum</i> . <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 704681.	2.0	10
51	Studies on substrate utilisation in l-valine-producing <i>Corynebacterium glutamicum</i> strains deficient in pyruvate dehydrogenase complex. <i>Bioprocess and Biosystems Engineering</i> , 2010, 33, 873-883.	1.7	9
52	Microaerobic production of isobutanol with engineered <i>Pseudomonas putida</i> . <i>Engineering in Life Sciences</i> , 2021, 21, 475-488.	2.0	9
53	A synthetic glycerol assimilation pathway demonstrates biochemical constraints of cellular metabolism. <i>FEBS Journal</i> , 2020, 287, 160-172.	2.2	7
54	Streamlining the Analysis of Dynamic <sup>13</sup> C-Labeling Patterns for the Metabolic Engineering of <i>Corynebacterium glutamicum</i> as l-Histidine Production Host. <i>Metabolites</i> , 2020, 10, 458.	1.3	5

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55	Comprehensive Analysis of <i>C. glutamicum</i> Anaplerotic Deletion Mutants Under Defined d-Glucose Conditions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 602936.	2.0	2
56	Exploiting Aerobic Carboxydophilic Bacteria for Industrial Biotechnology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2021, , 1-32.	0.6	2