# Bastian Blombach

List of Publications by Year
in descending order



| 56 | 2,939 | 147566 | 168136 |
|---|---|---|---|
| papers | citations | 31 h-index | 53 g-index |

| 60 | 60 | 60 | 1917 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Exploiting unconventional prokaryotic hosts for industrial biotechnology. Trends in Biotechnology, 2022, 40, 385-397. | 4.9 | 33 |
| 2 | Metabolic engineering of Vibrio natriegens for anaerobic succinate production. Microbial Biotechnology, 2022, 15, 1671-1684. | 2.0 | 17 |
| 3 | Acetate-based production of itaconic acid with Corynebacterium glutamicum using an integrated pH-coupled feeding control. Bioresource Technology, 2022, 351, 126994. | 4.8 | 19 |
| 4 | Microâ€aerobic production of isobutanol with engineered Pseudomonas putida. Engineering in Life Sciences, 2021, 21, 475-488. | 2.0 | 9 |
| 5 | A Timed Off-Switch for Dynamic Control of Gene Expression in Corynebacterium Glutamicum. Frontiers in Bioengineering and Biotechnology, 2021, 9, 704681. | 2.0 | 10 |
| 6 | Metabolic engineering of Vibrio natriegens. Essays in Biochemistry, 2021, 65, 381-392. | 2.1 | 28 |
| 7 | Exploiting Aerobic Carboxydotrophic Bacteria for Industrial Biotechnology. Advances in Biochemical Engineering/Biotechnology, 2021, , 1-32. | 0.6 | 2 |
| 8 | A synthetic glycerol assimilation pathway demonstrates biochemical constraints of cellular metabolism. FEBS Journal, 2020, 287, 160-172. | 2.2 | 7 |
| 9 | Streamlining the Analysis of Dynamic 13C-Labeling Patterns for the Metabolic Engineering of Corynebacterium glutamicum as l-Histidine Production Host. Metabolites, 2020, 10, 458. | 1.3 | 5 |
| 10 | Engineering Pseudomonas putida KT2440 for the production of isobutanol. Engineering in Life Sciences, 2020, 20, 148-159. | 2.0 | 18 |
| 11 | CO <sub>2</sub> /HCO <sub>3</sub> <sup>â^'</sup> Accelerates Iron Reduction through Phenolic Compounds. MBio, 2020, 11, . | 1.8 | 11 |
| 12 | Comprehensive Analysis of C. glutamicum Anaplerotic Deletion Mutants Under Defined d-Glucose Conditions. Frontiers in Bioengineering and Biotechnology, 2020, 8, 602936. | 2.0 | 2 |
| 13 | Continuous Adaptive Evolution of a Fast-Growing Corynebacterium glutamicum Strain Independent of Protocatechuate. Frontiers in Microbiology, 2019, 10, 1648. | 1.5 | 29 |
| 14 | Exploiting Hydrogenophaga pseudoflava for aerobic syngas-based production of chemicals. Metabolic Engineering, 2019, 55, 220-230. | 3.6 | 28 |
| 15 | Generation of a Prophage-Free Variant of the Fast-Growing Bacterium Vibrio natriegens. Applied and Environmental Microbiology, 2019, 85, . | 1.4 | 31 |
| 16 | Identifying the Growth Modulon of Corynebacterium glutamicum. Frontiers in Microbiology, 2019, 10, 974. | 1.5 | 12 |
| 17 | Modular systems metabolic engineering enables balancing of relevant pathways for l-histidine production with Corynebacterium glutamicum. Biotechnology for Biofuels, 2019, 12, 65. | 6.2 | 34 |
| 18 | Metabolic engineering to guide evolution â€“ Creating a novel mode for L-valine production with Corynebacterium glutamicum. Metabolic Engineering, 2018, 47, 31-41. | 3.6 | 41 |

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|---|---|---|---|
| 19 | Harnessing novel chromosomal integration loci to utilize an organosolvâ€derived hemicellulose fraction forÂisobutanol production with engineered Corynebacterium glutamicum. Microbial Biotechnology, 2018, 11, 257-263. | 2.0 | 33 |
| 20 | Vibrio natriegens as Host for Expression of Multisubunit Membrane Protein Complexes. Frontiers in Microbiology, 2018, 9, 2537. | 1.5 | 33 |
| 21 | Physiological Response of Corynebacterium glutamicum to Increasingly Nutrient-Rich Growth Conditions. Frontiers in Microbiology, 2018, 9, 2058. | 1.5 | 24 |
| 22 | The RamA regulon: complex regulatory interactions in relation to central metabolism in Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2018, 102, 5901-5910. | 1.7 | 23 |
| 23 | 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 |
| 24 | Cell-Free Protein Synthesis From Fast-Growing Vibrio natriegens. Frontiers in Microbiology, 2018, 9, 1146. | 1.5 | 69 |
| 25 | Deciphering the Adaptation of Corynebacterium glutamicum in Transition from Aerobiosis via Microaerobiosis to Anaerobiosis. Genes, 2018, 9, 297. | 1.0 | 19 |
| 26 | High Substrate Uptake Rates Empower Vibrio natriegens as Production Host for Industrial Biotechnology. Applied and Environmental Microbiology, 2017, 83, . | 1.4 | 112 |
| 27 | Zeroâ€growth bioprocesses: A challenge for microbial production strains and bioprocess engineering. Engineering in Life Sciences, 2017, 17, 27-35. | 2.0 | 26 |
| 28 | Valorization of pyrolysis water: a biorefinery side stream, for 1,2-propanediol production with engineered Corynebacterium glutamicum. Biotechnology for Biofuels, 2017, 10, 277. | 6.2 | 35 |
| 29 | Identification of the agr Peptide of Listeria monocytogenes. Frontiers in Microbiology, 2016, 7, 989. | 1.5 | 36 |
| 30 | Stereospecificity of Corynebacterium glutamicum 2,3-butanediol dehydrogenase and implications for the stereochemical purity of bioproduced 2,3-butanediol. Applied Microbiology and Biotechnology, 2016, 100, 10573-10583. | 1.7 | 10 |
| 31 | Engineering Corynebacterium glutamicum for the production of 2,3-butanediol. Microbial Cell Factories, 2015, 14, 171. | 1.9 | 38 |
| 32 | CO2â€‰â€“â€‰Intrinsic Product, Essential Substrate, and Regulatory Trigger of Microbial and Mammalian Production Processes. Frontiers in Bioengineering and Biotechnology, 2015, 3, 108. | 2.0 | 45 |
| 33 | Application of a Genetically Encoded Biosensor for Live Cell Imaging of L-Valine Production in Pyruvate Dehydrogenase Complex-Deficient Corynebacterium glutamicum Strains. PLoS ONE, 2014, 9, e85731. | 1.1 | 100 |
| 34 | The pyruvate dehydrogenase complex of Corynebacterium glutamicum: An attractive target for metabolic engineering. Journal of Biotechnology, 2014, 192, 339-345. | 1.9 | 44 |
| 35 | CO2/HCO3 â^’ perturbations of simulated large scale gradients in a scale-down device cause fast transcriptional responses in Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2014, 98, 8563-8572. | 1.7 | 63 |
| 36 | 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 Corynebacterium glutamicum. Applied and Environmental Microbiology, 2014, 80, 3015-3024. | 1.4 | 42 |

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|---|---|---|---|
| 37 | Application of metabolic engineering for the biotechnological production of l-valine. Applied Microbiology and Biotechnology, 2014, 98, 5859-5870. | 1.7 | 59 |
| 38 | Improving the carbon balance of fermentations by total carbon analyses. Biochemical Engineering Journal, 2014, 90, 162-169. | 1.8 | 34 |
| 39 | Platform Engineering of Corynebacterium glutamicum with Reduced Pyruvate Dehydrogenase Complex Activity for Improved Production of <scp>l</scp> -Lysine, <scp>l</scp> -Valine, and 2-Ketoisovalerate. Applied and Environmental Microbiology, 2013, 79, 5566-5575. | 1.4 | 98 |
| 40 | Bioâ€based production of organic acids with <scp>C</scp>orynebacterium glutamicum. Microbial Biotechnology, 2013, 6, 87-102. | 2.0 | 154 |
| 41 | Impact of different CO2/HCO3â˜ levels on metabolism and regulation in Corynebacterium glutamicum. Journal of Biotechnology, 2013, 168, 331-340. | 1.9 | 40 |
| 42 | Engineering Corynebacterium glutamicum for the production of pyruvate. Applied Microbiology and Biotechnology, 2012, 94, 449-459. | 1.7 | 108 |
| 43 | Current knowledge on isobutanol production withEscherichia coli,Bacillus subtilisandCorynebacterium glutamicum. Bioengineered Bugs, 2011, 2, 346-350. | 2.0 | 87 |
| 44 | Comparative<sup>13</sup>C Metabolic Flux Analysis of Pyruvate Dehydrogenase Complex-Deficient,<scp>l</scp>-Valine-Producing Corynebacterium glutamicum. Applied and Environmental Microbiology, 2011, 77, 6644-6652. | 1.4 | 70 |
| 45 | Corynebacterium glutamicum Tailored for Efficient Isobutanol Production. Applied and Environmental Microbiology, 2011, 77, 3300-3310. | 1.4 | 290 |
| 46 | Importance of NADPH supply for improved <scp>L</scp>â€valine formation in Corynebacterium glutamicum. Biotechnology Progress, 2010, 26, 361-371. | 1.3 | 67 |
| 47 | Carbohydrate metabolism in Corynebacterium glutamicum and applications for the metabolic engineering of l-lysine production strains. Applied Microbiology and Biotechnology, 2010, 86, 1313-1322. | 1.7 | 102 |
| 48 | Studies on substrate utilisation in l-valine-producing Corynebacterium glutamicum strains deficient in pyruvate dehydrogenase complex. Bioprocess and Biosystems Engineering, 2010, 33, 873-883. | 1.7 | 9 |
| 49 | Increased Glucose Utilization in Corynebacterium glutamicum by Use of Maltose, and Its Application for the Improvement of <scp>l</scp> -Valine Productivity. Applied and Environmental Microbiology, 2010, 76, 370-374. | 1.4 | 48 |
| 50 | Metabolic Engineering of Corynebacterium glutamicum for 2-Ketoisovalerate Production. Applied and Environmental Microbiology, 2010, 76, 8053-8061. | 1.4 | 97 |
| 51 | Acetohydroxyacid Synthase, a Novel Target for Improvement of <scp>l</scp> -Lysine Production by Corynebacterium glutamicum. Applied and Environmental Microbiology, 2009, 75, 419-427. | 1.4 | 57 |
| 52 | RamB Is an Activator of the Pyruvate Dehydrogenase Complex Subunit E1p Gene in Corynebacterium glutamicum. Journal of Molecular Microbiology and Biotechnology, 2009, 16, 236-239. | 1.0 | 20 |
| 53 | <scp>l</scp> -Valine Production during Growth of Pyruvate Dehydrogenase Complex- Deficient Corynebacterium glutamicum in the Presence of Ethanol or by Inactivation of the Transcriptional Regulator SugR. Applied and Environmental Microbiology, 2009, 75, 1197-1200. | 1.4 | 55 |
| 54 | Corynebacterium glutamicum tailored for high-yield L-valine production. Applied Microbiology and Biotechnology, 2008, 79, 471-479. | 1.7 | 131 |

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|---|---|---|---|
| 55 | l-Valine Production with Pyruvate Dehydrogenase Complex-Deficient Corynebacterium glutamicum. Applied and Environmental Microbiology, 2007, 73, 2079-2084. | 1.4 | 135 |
| 56 | Effect of pyruvate dehydrogenase complex deficiency on l-lysine production with Corynebacterium glutamicum. Applied Microbiology and Biotechnology, 2007, 76, 615-623. | 1.7 | 60 |