# Stefan Bauer

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/12026551/publications.pdf

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|---|---|---|---|
| 42 papers | 3,787 citations | 159358 30 h-index | 264894 42 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 5791 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Functional characterization of genes mediating cell wall metabolism and responses to plant cell wall integrity impairment. BMC Plant Biology, 2019, 19, 320. | 1.6 | 20 |
| 2 | Identification of methanogenesis and syntrophy as important microbial metabolic processes for optimal thermophilic anaerobic digestion of energy cane thin stillage. Bioresource Technology Reports, 2019, 7, 100254. | 1.5 | 17 |
| 3 | Functional genomics of lipid metabolism in the oleaginous yeast Rhodosporidium toruloides. ELife, 2018, 7, . | 2.8 | 98 |
| 4 | Programming mRNA decay to modulate synthetic circuit resource allocation. Nature Communications, 2017, 8, 15128. | 5.8 | 50 |
| 5 | Quantitative Trait Loci (QTL)-Guided Metabolic Engineering of a Complex Trait. ACS Synthetic Biology, 2017, 6, 566-581. | 1.9 | 26 |
| 6 | Anisotropic Cell Expansion Is Affected through the Bidirectional Mobility of Cellulose Synthase Complexes and Phosphorylation at Two Critical Residues on CESA3. Plant Physiology, 2016, 171, 242-250. | 2.3 | 54 |
| 7 | Lignocellulose-derived thin stillage composition and efficient biological treatment with a high-rate hybrid anaerobic bioreactor system. Biotechnology for Biofuels, 2016, 9, 120. | 6.2 | 25 |
| 8 | O-Glycan analysis of cellobiohydrolase I fromNeurospora crassa. Glycobiology, 2016, 26, 670-677. | 1.3 | 4 |
| 9 | Bypassing the Pentose Phosphate Pathway: Towards Modular Utilization of Xylose. PLoS ONE, 2016, 11, e0158111. | 1.1 | 18 |
| 10 | Prospecting for Energy-Rich Renewable Raw Materials: Agave Leaf Case Study. PLoS ONE, 2015, 10, e0135382. | 1.1 | 73 |
| 11 | (Per)Chlorate-Reducing Bacteria Can Utilize Aerobic and Anaerobic Pathways of Aromatic Degradation with (Per)Chlorate as an Electron Acceptor. MBio, 2015, 6, . | 1.8 | 22 |
| 12 | Identification of MEDIATOR16 as the Arabidopsis COBRA suppressor MONGOOSE1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 16048-16053. | 3.3 | 37 |
| 13 | Rapid Small-Scale Determination of Extractives in Biomass. Bioenergy Research, 2015, 8, 68-76. | 2.2 | 23 |
| 14 | Environment Has Little Effect on Biomass Biochemical Composition of Miscanthusâ€‰Ã—â€‰giganteus Across Soil Types, Nitrogen Fertilization, and Times of Harvest. Bioenergy Research, 2015, 8, 1636-1646. | 2.2 | 31 |
| 15 | Fungi isolated from Miscanthus and sugarcane: biomass conversion, fungal enzymes, and hydrolysis of plant cell wall polymers. Biotechnology for Biofuels, 2015, 8, 38. | 6.2 | 41 |
| 16 | Does size matter? Separations on guard columns for fast sample analysis applied to bioenergy research. BMC Biotechnology, 2015, 15, 38. | 1.7 | 0 |
| 17 | Analytical method for the determination of organic acids in dilute acid pretreated biomass hydrolysate by liquid chromatography-time-of-flight mass spectrometry. Biotechnology for Biofuels, 2014, 7, 145. | 6.2 | 33 |
| 18 | The genetic basis of energy conservation in the sulfate-reducing bacterium Desulfovibrio alaskensis G20. Frontiers in Microbiology, 2014, 5, 577. | 1.5 | 61 |

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|---|---|---|---|
| 19 | A comparative systems analysis of polysaccharideâ€elicited responses in <scp>N</scp>eurospora crassa reveals carbon sourceâ€specific cellular adaptations. Molecular Microbiology, 2014, 91, 275-299. | 1.2 | 95 |
| 20 | The Arabidopsis COBRA Protein Facilitates Cellulose Crystallization at the Plasma Membrane. Journal of Biological Chemistry, 2014, 289, 34911-34920. | 1.6 | 35 |
| 21 | Comprehensive Analysis of Monomeric Phenolics in Dilute Acid Plant Hydrolysates. Bioenergy Research, 2014, 7, 654-669. | 2.2 | 61 |
| 22 | Identification and characterization of a galacturonic acid transporter from Neurospora crassa and its application for Saccharomyces cerevisiae fermentation processes. Biotechnology for Biofuels, 2014, 7, 20. | 6.2 | 54 |
| 23 | Rapid determination of cellulose. Biotechnology and Bioengineering, 2014, 111, 2355-2357. | 1.7 | 32 |
| 24 | Downscaled method using glass microfiber filters for the determination of Klason lignin and structural carbohydrates. Biomass and Bioenergy, 2014, 68, 75-81. | 2.9 | 46 |
| 25 | Fermentation of hydrolysate detoxified by pervaporation through block copolymer membranes. Green Chemistry, 2014, 16, 4206-4213. | 4.6 | 22 |
| 26 | Overcoming inefficient cellobiose fermentation by cellobiose phosphorylase in the presence of xylose. Biotechnology for Biofuels, 2014, 7, 85. | 6.2 | 28 |
| 27 | Roles of Small Laccases from Streptomyces in Lignin Degradation. Biochemistry, 2014, 53, 4047-4058. | 1.2 | 159 |
| 28 | Dissecting a complex chemical stress: chemogenomic profiling of plant hydrolysates. Molecular Systems Biology, 2013, 9, 674. | 3.2 | 103 |
| 29 | Compositional analysis of Miscanthus giganteus by near infrared spectroscopy. Cellulose, 2013, 20, 1629-1637. | 2.4 | 33 |
| 30 | Studies on the Vanadium-Catalyzed Nonoxidative Depolymerization of Miscanthus giganteus-Derived Lignin. ACS Catalysis, 2013, 3, 1369-1377. | 5.5 | 150 |
| 31 | Physiological and Genetic Description of Dissimilatory Perchlorate Reduction by the Novel Marine Bacterium Arcobacter sp. Strain CAB. MBio, 2013, 4, e00217-13. | 1.8 | 64 |
| 32 | Cloning and Expression of Hemicellulases from Aspergillus nidulans in Pichia pastoris. Methods in Molecular Biology, 2012, 824, 393-416. | 0.4 | 4 |
| 33 | Structural Transformation of Miscanthus Ã— giganteus Lignin Fractionated under Mild Formosolv, Basic Organosolv, and Cellulolytic Enzyme Conditions. Journal of Agricultural and Food Chemistry, 2012, 60, 144-152. | 2.4 | 56 |
| 34 | CHITINASE-LIKE1/POM-POM1 and Its Homolog CTL2 Are Glucan-Interacting Proteins Important for Cellulose Biosynthesis in Arabidopsis. Plant Cell, 2012, 24, 589-607. | 3.1 | 158 |
| 35 | Characterization of Miscanthus giganteus Lignin Isolated by Ethanol Organosolv Process under Reflux Condition. Journal of Agricultural and Food Chemistry, 2012, 60, 8203-8212. | 2.4 | 200 |
| 36 | Mass Spectrometry for Characterizing Plant Cell Wall Polysaccharides. Frontiers in Plant Science, 2012, 3, 45. | 1.7 | 42 |

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|---|---|---|---|
| 37 | Biochemical Analyses of Multiple Endoxylanases from the Rumen Bacterium Ruminococcus albus 8 and Their Synergistic Activities with Accessory Hemicellulose-Degrading Enzymes. Applied and Environmental Microbiology, 2011, 77, 5157-5169. | 1.4 | 37 |
| 38 | A new method for isolating large quantities of Arabidopsis trichomes for transcriptome, cell wall and other types of analyses. Plant Journal, 2008, 56, 483-492. | 2.8 | 72 |
| 39 | The Arabidopsis irregular xylem8 Mutant Is Deficient in Glucuronoxylan and Homogalacturonan, Which Are Essential for Secondary Cell Wall Integrity. Plant Cell, 2007, 19, 237-255. | 3.1 | 251 |
| 40 | Development and application of a suite of polysaccharide-degrading enzymes for analyzing plant cell walls. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11417-11422. | 3.3 | 300 |
| 41 | Cloning, expression, and characterization of an oligoxyloglucan reducing end-specific xyloglucanobiohydrolase from Aspergillus nidulans. Carbohydrate Research, 2005, 340, 2590-2597. | 1.1 | 60 |
| 42 | Toward a Systems Approach to Understanding Plant Cell Walls. Science, 2004, 306, 2206-2211. | 6.0 | 1,090 |