Lars Mathias Blank

List of Publications by Year
in descending order

243 papers	10,602 citations	30070 54 h-index	51608 86 g-index
269 all docs	269 docs citations	269 times ranked	9203 citing authors

#	Article	IF	Citations
1	Remobilization of pollutants during extreme flood events poses severe risks to human and environmental health. Journal of Hazardous Materials, 2022, 421, 126691.	12.4	43
2	An integrated yeastâ€based process for cis,cisâ€muconic acid production. Biotechnology and Bioengineering, 2022, 119, 376-387.	3.3	9
3	A plea for the integration of Green Toxicology in sustainable bioeconomy strategies â€“ Biosurfactants and microgel-based pesticide release systems as examples. Journal of Hazardous Materials, 2022, 426, 127800.	12.4	5
4	Early prediction of decompensation (<scp>EPOD</scp>) score: Nonâ€invasive determination of cirrhosis decompensation risk. Liver International, 2022, 42, 640-650.	3.9	6
5	Insights into cell wall disintegration of Chlorella vulgaris. PLoS ONE, 2022, 17, e0262500.	2.5	38
6	Yeast-based production and in situ purification of acetaldehyde. Bioprocess and Biosystems Engineering, 2022, 45, 761-769.	3.4	3
7	Seventeen Ustilaginaceae High-Quality Genome Sequences Allow Phylogenomic Analysis and Provide Insights into Secondary Metabolite Synthesis. Journal of Fungi (Basel, Switzerland), 2022, 8, 269.	3.5	11
8	Nitrogen Metabolism in Pseudomonas putida: Functional Analysis Using Random Barcode Transposon Sequencing. Applied and Environmental Microbiology, 2022, 88, e0243021.	3.1	8
9	The metabolic potential of plastics as biotechnological carbon sources â€“ Review and targets for the future. Metabolic Engineering, 2022, 71, 77-98.	7.0	55
10	Assessment of microbial activity by CO₂ production during heating oil storage. Engineering in Life Sciences, 2022, 22, 508-518.	3.6	4
11	Mix and Match: Promoters and Terminators for Tuning Gene Expression in the Methylotrophic Yeast Ogataea polymorpha. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	4.1	4
12	Customized Woven Carbon Fiber Electrodes for Bioelectrochemical Systemsâ€”A Study of Structural Parameters. Frontiers in Chemical Engineering, 2022, 4, .	2.7	1
13	Ustilago maydis Metabolic Characterization and Growth Quantification with a Genome-Scale Metabolic Model. Journal of Fungi (Basel, Switzerland), 2022, 8, 524.	3.5	6
14	Predicting high recombinant protein producer strains of Pichia pastoris MutS using the oxygen transfer rate as an indicator of metabolic burden. Scientific Reports, 2022, 12, .	3.3	2
15	Upcycling of hydrolyzed PET by microbial conversion to a fatty acid derivative. Methods in Enzymology, 2021, 648, 391-421.	1.0	9
16	Special Issue â€œMetabolic Engineering and Synthetic Biology Volume 2â€. Metabolites, 2021, 11, 35.	2.9	0
17	Genome-scale model reconstruction of the methylotrophic yeast Ogataea polymorpha. BMC Biotechnology, 2021, 21, 23.	3.3	7
18	Correction for Thompson et al., â€œFatty Acid and Alcohol Metabolism in Pseudomonas putida: Functional Analysis Using Random Barcode Transposon Sequencingâ€. Applied and Environmental Microbiology, 2021, 87, .	3.1	0

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19	Proteome Regulation Patterns Determine Escherichia coli Wild-Type and Mutant Phenotypes. MSystems, 2021, 6, .	3.8	6
20	Biodegradation and up-cycling of polyurethanes: Progress, challenges, and prospects. Biotechnology Advances, 2021, 48, 107730.	11.7	95
21	A scalable bubbleâ€free membrane aerator for biosurfactant production. Biotechnology and Bioengineering, 2021, 118, 3545-3558.	3.3	13
22	Dataâ€driven personalization of a physiologically based pharmacokinetic model for caffeine: A systematic assessment. CPT: Pharmacometrics and Systems Pharmacology, 2021, 10, 782-793.	2.5	13
23	Lignin Aromatics to PHA Polymers: Nitrogen and Oxygen Are the Key Factors for Pseudomonas. ACS Sustainable Chemistry and Engineering, 2021, 9, 10579-10590.	6.7	18
24	Towards bio-upcycling of polyethylene terephthalate. Metabolic Engineering, 2021, 66, 167-178.	7.0	151
25	MIXed plastics biodegradation and UPcycling using microbial communities: EU Horizon 2020 project MIX-UP started January 2020. Environmental Sciences Europe, 2021, 33, 99.	5.5	33
26	Pseudomonas putida KT2440 endures temporary oxygen limitations. Biotechnology and Bioengineering, 2021, 118, 4735-4750.	3.3	12
27	Brewersâ€™ spent grain as carbon source for itaconate production with engineered Ustilago maydis. Bioresource Technology, 2021, 336, 125262.	9.6	14
28	A Modelâ€Based Workflow to Benchmark the Clinical Cholestasis Risk of Drugs. Clinical Pharmacology and Therapeutics, 2021, 110, 1293-1301.	4.7	3
29	Engineering adipic acid metabolism in Pseudomonas putida. Metabolic Engineering, 2021, 67, 29-40.	7.0	27
30	Impact of the number of rhamnose moieties of rhamnolipids on the structure, lateral organization and morphology of model biomembranes. Soft Matter, 2021, 17, 3191-3206.	2.7	5
31	Ustilaginaceae Biocatalyst for Co-Metabolism of CO2-Derived Substrates toward Carbon-Neutral Itaconate Production. Journal of Fungi (Basel, Switzerland), 2021, 7, 98.	3.5	14
32	An Optimized Ustilago maydis for Itaconic Acid Production at Maximal Theoretical Yield. Journal of Fungi (Basel, Switzerland), 2021, 7, 20.	3.5	29
33	Comparative Analysis of the Behaviour of Marine Litter in Thermochemical Waste Treatment Processes. Processes, 2021, 9, 13.	2.8	6
34	Designed to Be Green, Economic, and Efficient: A Ketoneâ€Esterâ€Alcoholâ€Alkane Blend for Future Sparkâ€Ignition Engines. ChemSusChem, 2021, 14, 5254-5264.	6.8	8
35	Insight to Gene Expression From Promoter Libraries With the Machine Learning Workflow Exp2Ipynb. Frontiers in Bioinformatics, 2021, 1, .	2.1	4
36	Bio-energy conversion with carbon capture and utilization (BECCU): integrated biomass fermentation and chemo-catalytic CO2 hydrogenation for bioethanol and formic acid co-production. Green Chemistry, 2021, 23, 9860-9864.	9.0	7

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37	Mitochondrial carriers of UstilagoÂmaydis and AspergillusÂterreus involved in itaconate production: same physiological role but different biochemical features. FEBS Letters, 2020, 594, 728-739.	2.8	9
38	Biotechnological upcycling of plastic waste and other non-conventional feedstocks in a circular economy. Current Opinion in Biotechnology, 2020, 62, 212-219.	6.6	124
39	Possibilities and limitations of biotechnological plastic degradation and recycling. Nature Catalysis, 2020, 3, 867-871.	34.4	233
40	High titer methyl ketone production with tailored Pseudomonas taiwanensis VLB120. Metabolic Engineering, 2020, 62, 84-94.	7.0	15
41	Comprehensive liamocin biosurfactants analysis by reversed phase liquid chromatography coupled to mass spectrometric and charged-aerosol detection. Journal of Chromatography A, 2020, 1627, 461404.	3.7	8
42	Defined Microbial Mixed Culture for Utilization of Polyurethane Monomers. ACS Sustainable Chemistry and Engineering, 2020, 8, 17466-17474.	6.7	60
43	Genetic Cell-Surface Modification for Optimized Foam Fractionation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 572892.	4.1	22
44	Interaction of rhamnolipids with model biomembranes of varying complexity. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183431.	2.6	21
45	A Straightforward Assay for Screening and Quantification of Biosurfactants in Microbial Culture Supernatants. Frontiers in Bioengineering and Biotechnology, 2020, 8, 958.	4.1	20
46	Integration of Genetic and Process Engineering for Optimized Rhamnolipid Production Using Pseudomonas putida. Frontiers in Bioengineering and Biotechnology, 2020, 8, 976.	4.1	56
47	A Combined Bio-Chemical Synthesis Route for 1-Octene Sheds Light on Rhamnolipid Structure. Catalysts, 2020, 10, 874.	3.5	9
48	Killing Two Birds With One Stone â€“ Strain Engineering Facilitates the Development of a Unique Rhamnolipid Production Process. Frontiers in Bioengineering and Biotechnology, 2020, 8, 899.	4.1	27
49	GC-MS-Based Metabolomics for the Smut Fungus Ustilago maydis: A Comprehensive Method Optimization to Quantify Intracellular Metabolites. Frontiers in Molecular Biosciences, 2020, 7, 211.	3.5	12
50	The Inflection Point Hypothesis: The Relationship between the Temperature Dependence of Enzyme-Catalyzed Reaction Rates and Microbial Growth Rates. Biochemistry, 2020, 59, 3562-3569.	2.5	20
51	Benzoate Synthesis from Glucose or Glycerol Using Engineered Pseudomonas taiwanensis. Biotechnology Journal, 2020, 15, e2000211.	3.5	10
52	Fatty Acid and Alcohol Metabolism in Pseudomonas putida: Functional Analysis Using Random Barcode Transposon Sequencing. Applied and Environmental Microbiology, 2020, 86, .	3.1	52
53	Consolidated bioprocessing of cellulose to itaconic acid by a co-culture of Trichoderma reesei and Ustilago maydis. Biotechnology for Biofuels, 2020, 13, 207.	6.2	45
54	Coupling an Electroactive Pseudomonas putida KT2440 with Bioelectrochemical Rhamnolipid Production. Microorganisms, 2020, 8, 1959.	3.6	15

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55	Uncoupling Foam Fractionation and Foam Adsorption for Enhanced Biosurfactant Synthesis and Recovery. Microorganisms, 2020, 8, 2029.	3.6	20
56	Selection of a recyclablein situliquidâ€“liquid extraction solvent for foam-free synthesis of rhamnolipids in a two-phase fermentation. Green Chemistry, 2020, 22, 8495-8510.	9.0	25
57	Characterization of Context-Dependent Effects on Synthetic Promoters. Frontiers in Bioengineering and Biotechnology, 2020, 8, 551.	4.1	14
58	Poly-Î³-glutamic acid production by Bacillus subtilis 168 using glucose as the sole carbon source: A metabolomic analysis. Journal of Bioscience and Bioengineering, 2020, 130, 272-282.	2.2	26
59	Machine Learning Applications for Mass Spectrometry-Based Metabolomics. Metabolites, 2020, 10, 243.	2.9	164
60	Electrophysiology of the Facultative Autotrophic Bacterium Desulfosporosinus orientis. Frontiers in Bioengineering and Biotechnology, 2020, 8, 457.	4.1	14
61	Biotechnological synthesis of waterâ€soluble foodâ€grade polyphosphate with Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2020, 117, 2089-2099.	3.3	11
62	Unraveling 1,4-Butanediol Metabolism in Pseudomonas putida KT2440. Frontiers in Microbiology, 2020, 11, 382.	3.5	42
63	Investigating metabolic interactions in a microbial co-culture through integrated modelling and experiments. Computational and Structural Biotechnology Journal, 2020, 18, 1249-1258.	4.1	24
64	Double bond localization in unsaturated rhamnolipid precursors 3-(3-hydroxyalkanoyloxy)alkanoic acids by liquid chromatographyâ€“mass spectrometry applying online PaternÃ²â€“BÃ¼chi reaction. Analytical and Bioanalytical Chemistry, 2020, 412, 5601-5613.	3.7	6
65	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
66	Methods for the Analysis of Polyphosphate in the Life Sciences. Analytical Chemistry, 2020, 92, 4167-4176.	6.5	49
67	Identification of Key Metabolites in Poly-Î³-Glutamic Acid Production by Tuning Î³-PGA Synthetase Expression. Frontiers in Bioengineering and Biotechnology, 2020, 8, 38.	4.1	13
68	Haemophilus influenzae Glucose Catabolism Leading to Production of the Immunometabolite Acetate Has a Key Contribution to the Host Airwayâ€“Pathogen Interplay. ACS Infectious Diseases, 2020, 6, 406-421.	3.8	15
69	Exploiting the Natural Diversity of RhlA Acyltransferases for the Synthesis of the Rhamnolipid Precursor 3-(3-Hydroxyalkanoyloxy)Alkanoic Acid. Applied and Environmental Microbiology, 2020, 86, .	3.1	37
70	An Ustilago maydis chassis for itaconic acid production without byâ€products. Microbial Biotechnology, 2020, 13, 350-362.	4.2	32
71	Systems Analysis of NADH Dehydrogenase Mutants Reveals Flexibility and Limits of Pseudomonas taiwanensis VLB120â€™s Metabolism. Applied and Environmental Microbiology, 2020, 86, .	3.1	4
72	Complete Genome Sequence and Annotation of the Paracoccus pantotrophus Type Strain DSM 2944. Microbiology Resource Announcements, 2020, 9, .	0.6	7

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73	Seawater activated TiO2 photocatalyst for degradation of organic compounds. Sustainable Chemistry and Pharmacy, 2020, 16, 100251.	3.3	6
74	Adaptive laboratory evolution of Pseudomonas putida and Corynebacterium glutamicum to enhance anthranilate tolerance. Microbiology (United Kingdom), 2020, 166, 1025-1037.	1.8	20
75	Evaluation of pyruvate decarboxylaseâ€negative Saccharomyces cerevisiae strains for the production of succinic acid. Engineering in Life Sciences, 2019, 19, 711-720.	3.6	11
76	Exploiting the diversity of streptococcal hyaluronan synthases for the production of molecular weightâ€“tailored hyaluronan. Applied Microbiology and Biotechnology, 2019, 103, 7567-7581.	3.6	11
77	Targeting 16S rDNA for Stable Recombinant Gene Expression in Pseudomonas. ACS Synthetic Biology, 2019, 8, 1901-1912.	3.8	19
78	Multi-Omics Analysis of Fatty Alcohol Production in Engineered Yeasts Saccharomyces cerevisiae and Yarrowia lipolytica. Frontiers in Genetics, 2019, 10, 747.	2.3	32
79	Tailor-made poly-Î³-glutamic acid production. Metabolic Engineering, 2019, 55, 239-248.	7.0	38
80	Electrochemical conversion of a bio-derivable hydroxy acid to a drop-in oxygenate diesel fuel. Energy and Environmental Science, 2019, 12, 2406-2411.	30.8	45
81	Boosting Heterologous Phenazine Production in Pseudomonas putida KT2440 Through the Exploration of the Natural Sequence Space. Frontiers in Microbiology, 2019, 10, 1990.	3.5	36
82	Rational Engineering of Phenylalanine Accumulation in Pseudomonas taiwanensis to Enable High-Yield Production of Trans-Cinnamate. Frontiers in Bioengineering and Biotechnology, 2019, 7, 312.	4.1	23
83	Integrated strain- and process design enable production of 220ÂgÂLâ^'1 itaconic acid with Ustilago maydis. Biotechnology for Biofuels, 2019, 12, 263.	6.2	57
84	Streamlined Pseudomonas taiwanensis VLB120 Chassis Strains with Improved Bioprocess Features. ACS Synthetic Biology, 2019, 8, 2036-2050.	3.8	28
85	A Physiology-Based Model of Human Bile Acid Metabolism for Predicting Bile Acid Tissue Levels After Drug Administration in Healthy Subjects and BRIC Type 2 Patients. Frontiers in Physiology, 2019, 10, 1192.	2.8	10
86	Rational Selection of Carbon Fiber Properties for High-Performance Textile Electrodes in Bioelectrochemical Systems. Frontiers in Energy Research, 2019, 7, .	2.3	10
87	Microfluidic Irreversible Electroporationâ€”A Versatile Tool to Extract Intracellular Contents of Bacteria and Yeast. Metabolites, 2019, 9, 211.	2.9	11
88	The interplay between transport and metabolism in fungal itaconic acid production. Fungal Genetics and Biology, 2019, 125, 45-52.	2.1	28
89	High-Yield Production of 4-Hydroxybenzoate From Glucose or Glycerol by an Engineered Pseudomonas taiwanensis VLB120. Frontiers in Bioengineering and Biotechnology, 2019, 7, 130.	4.1	31
90	Laboratory evolution reveals the metabolic and regulatory basis of ethylene glycol metabolism by Pseudomonas putida KT2440. Environmental Microbiology, 2019, 21, 3669-3682.	3.8	85

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91	Elevated temperatures do not trigger a conserved metabolic network response among thermotolerant yeasts. BMC Microbiology, 2019, 19, 100.	3.3	16
92	Engineering the morphology and metabolism of pH tolerant Ustilago cynodontis for efficient itaconic acid production. Metabolic Engineering, 2019, 54, 293-300.	7.0	47
93	Polyphosphate Chain Length Determination in the Range of Two to Several Hundred P-Subunits with a New Enzyme Assay and ³¹P NMR. Analytical Chemistry, 2019, 91, 7654-7661.	6.5	11
94	Aromatisation of bio-derivable isobutyraldehyde over HZSM-5 zeolite catalysts. Green Chemistry, 2019, 21, 1710-1717.	9.0	18
95	The Transcriptome and Flux Profiling of Crabtreeâ€Negative Hydroxy Acidâ€Producing Strains ofSaccharomyces cerevisiaeReveals Changes in the Central Carbon Metabolism. Biotechnology Journal, 2019, 14, 1900013.	3.5	3
96	Saccharomyces cerevisiae containing 28% polyphosphate and production of a polyphosphate-rich yeast extract thereof. FEMS Yeast Research, 2019, 19, .	2.3	27
97	Process engineering of pH tolerant Ustilago cynodontis for efficient itaconic acid production. Microbial Cell Factories, 2019, 18, 213.	4.0	25
98	Microfluidic Platform for Multimodal Analysis of Enzyme Secretion in Nanoliter Droplet Arrays. Analytical Chemistry, 2019, 91, 2066-2073.	6.5	62
99	Comparison of Three Xylose Pathways in Pseudomonas putida KT2440 for the Synthesis of Valuable Products. Frontiers in Bioengineering and Biotechnology, 2019, 7, 480.	4.1	83
100	Pseudomonas mRNA 2.0: Boosting Gene Expression Through Enhanced mRNA Stability and Translational Efficiency. Frontiers in Bioengineering and Biotechnology, 2019, 7, 458.	4.1	17
101	Comparison of Isomerase and Weimberg Pathway for Î³-PGA Production From Xylose by Engineered Bacillus subtilis. Frontiers in Bioengineering and Biotechnology, 2019, 7, 476.	4.1	21
102	Integration of genome-scale metabolic networks into whole-body PBPK models shows phenotype-specific cases of drug-induced metabolic perturbation. Npj Systems Biology and Applications, 2018, 4, 10.	3.0	28
103	Enzymatic quantification and length determination of polyphosphate down to a chain length of two. Analytical Biochemistry, 2018, 548, 82-90.	2.4	26
104	Heterologous production of long-chain rhamnolipids from Burkholderia glumae in Pseudomonas putidaâ€”a step forward to tailor-made rhamnolipids. Applied Microbiology and Biotechnology, 2018, 102, 1229-1239.	3.6	51
105	A breath of information: the volatilome. Current Genetics, 2018, 64, 959-964.	1.7	32
106	Malatproduktion aus Rohglycerin mit Ustilago. BioSpektrum, 2018, 24, 218-220.	0.0	0
107	Metabolic engineering of Pseudomonas taiwanensis VLB120 with minimal genomic modifications for high-yield phenol production. Metabolic Engineering, 2018, 47, 121-133.	7.0	87
108	Defined inoculum for the investigation of microbial contaminations of liquid fuels. International Biodeterioration and Biodegradation, 2018, 132, 84-93.	3.9	9

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109	Multi-capillary Column Ion Mobility Spectrometry of Volatile Metabolites for Phenotyping of Microorganisms. Methods in Molecular Biology, 2018, 1671, 229-258.	0.9	2
110	A model-based assay design to reproduce in vivo patterns of acute drug-induced toxicity. Archives of Toxicology, 2018, 92, 553-555.	4.2	23
111	Analytical polyphosphate extraction from Saccharomyces cerevisiae. Analytical Biochemistry, 2018, 563, 71-78.	2.4	20
112	Restoration of biofuel production levels and increased tolerance under ionic liquid stress is enabled by a mutation in the essential Escherichia coli gene cydC. Microbial Cell Factories, 2018, 17, 159.	4.0	33
113	From beech wood to itaconic acid: case study on biorefinery process integration. Biotechnology for Biofuels, 2018, 11, 279.	6.2	52
114	Online in vivo monitoring of cytosolic NAD redox dynamics in Ustilago maydis. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1015-1024.	1.0	13
115	CO2 to succinic acid â€“ Estimating the potential of biocatalytic routes. Metabolic Engineering Communications, 2018, 7, e00075.	3.6	31
116	Mass spectrometric characterization of siderophores produced by Pseudomonas taiwanensis VLB120 assisted by stable isotope labeling of nitrogen source. BioMetals, 2018, 31, 785-795.	4.1	3
117	Using quantitative systems pharmacology to evaluate the drug efficacy of COX-2 and 5-LOX inhibitors in therapeutic situations. Npj Systems Biology and Applications, 2018, 4, 28.	3.0	15
118	Physiologic and metabolic characterization of Saccharomyces cerevisiae reveals limitations in the synthesis of the triterpene squalene. FEMS Yeast Research, 2018, 18, .	2.3	8
119	Genetic Optimization Algorithm for Metabolic Engineering Revisited. Metabolites, 2018, 8, 33.	2.9	13
120	Discovery and Evaluation of Biosynthetic Pathways for the Production of Five Methyl Ethyl Ketone Precursors. ACS Synthetic Biology, 2018, 7, 1858-1873.	3.8	29
121	Improved microscale cultivation of Pichia pastoris for clonal screening. Fungal Biology and Biotechnology, 2018, 5, 8.	5.1	12
122	Evolutionary freedom in the regulation of the conserved itaconate cluster by Ria1 in related Ustilaginaceae. Fungal Biology and Biotechnology, 2018, 5, 14.	5.1	14
123	Engineering Pseudomonas putida KT2440 for efficient ethylene glycol utilization. Metabolic Engineering, 2018, 48, 197-207.	7.0	125
124	Ultrasonically manufactured microfluidic device for yeast analysis. Microsystem Technologies, 2017, 23, 2139-2144.	2.0	12
125	Model-based contextualization of in vitro toxicity data quantitatively predicts in vivo drug response in patients. Archives of Toxicology, 2017, 91, 865-883.	4.2	16
126	Metabolic engineering of Ustilago trichophora TZ1 for improved malic acid production. Metabolic Engineering Communications, 2017, 4, 12-21.	3.6	53

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127	Multiscale modeling reveals inhibitory and stimulatory effects of caffeine on acetaminophenâ€induced toxicity in humans. CPT: Pharmacometrics and Systems Pharmacology, 2017, 6, 136-146.	2.5	8
128	Integrated process development of a reactive extraction concept for itaconic acid and application to a real fermentation broth. Engineering in Life Sciences, 2017, 17, 809-816.	3.6	24
129	Regulation of solvent tolerance inPseudomonas putidaS12 mediated by mobile elements. Microbial Biotechnology, 2017, 10, 1558-1568.	4.2	12
130	Novel insights into biosynthesis and uptake of rhamnolipids and their precursors. Applied Microbiology and Biotechnology, 2017, 101, 2865-2878.	3.6	89
131	Comprehensive Real-Time Analysis of the Yeast Volatilome. Scientific Reports, 2017, 7, 14236.	3.3	34
132	Fermentation and purification strategies for the production of betulinic acid and its lupaneâ€type precursors in Saccharomyces cerevisiae. Biotechnology and Bioengineering, 2017, 114, 2528-2538.	3.3	41
133	Miniaturized octupole cytometry for cell type independent trapping and analysis. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
134	A comprehensive evaluation of constraining amino acid biosynthesis in compartmented models for metabolic flux analysis. Metabolic Engineering Communications, 2017, 5, 34-44.	3.6	12
135	Let's talk about flux or the importance of (intracellular) reaction rates. Microbial Biotechnology, 2017, 10, 28-30.	4.2	6
136	Anionic Extraction for Efficient Recovery of Biobased 2,3â€Butanediolâ€”A Platform for Bulk and Fine Chemicals. ChemSusChem, 2017, 10, 3252-3259.	6.8	25
137	Efficient itaconic acid production from glycerol with Ustilago vetiveriae TZ1. Biotechnology for Biofuels, 2017, 10, 131.	6.2	53
138	Metabolic response of Pseudomonas putida to increased NADH regeneration rates. Engineering in Life Sciences, 2017, 17, 47-57.	3.6	27
139	Rhamnolipids: Production, Performance, and Application. , 2017, , 587-622.		4
140	Promoters from the itaconate cluster of Ustilago maydis are induced by nitrogen depletion. Fungal Biology and Biotechnology, 2017, 4, 11.	5.1	23
141	Designer rhamnolipids by reduction of congener diversity: production and characterization. Microbial Cell Factories, 2017, 16, 225.	4.0	93
142	A Comparative Analysis of Drug-Induced Hepatotoxicity in Clinically Relevant Situations. PLoS Computational Biology, 2017, 13, e1005280.	3.2	10
143	Exploration and Exploitation of the Yeast Volatilome. Current Metabolomics, 2017, 5, .	0.5	15
144	Rhamnolipids: Production, Performance, and Application. , 2017, , 1-37.		2

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145	Enhanced malic acid production from glycerol with high-cell density Ustilago trichophora TZ1 cultivations. Biotechnology for Biofuels, 2016, 9, 135.	6.2	64
146	Microbial challenges for domestic heating oil storage tanks. Engineering in Life Sciences, 2016, 16, 474-482.	3.6	1
147	High performance liquid chromatography-charged aerosol detection applying an inverse gradient for quantification of rhamnolipid biosurfactants. Journal of Chromatography A, 2016, 1455, 125-132.	3.7	45
148	Dynamics of benzoate metabolism in Pseudomonas putida KT2440. Metabolic Engineering Communications, 2016, 3, 97-110.	3.6	37
149	Engineering and systems-level analysis of Saccharomyces cerevisiae for production of 3-hydroxypropionic acid via malonyl-CoA reductase-dependent pathway. Microbial Cell Factories, 2016, 15, 53.	4.0	98
150	Ustilago maydis produces itaconic acid via the unusual intermediate transâ€aconitate. Microbial Biotechnology, 2016, 9, 116-126.	4.2	107
151	A Physiologically Based Pharmacokinetic Model of Isoniazid and Its Application in Individualizing Tuberculosis Chemotherapy. Antimicrobial Agents and Chemotherapy, 2016, 60, 6134-6145.	3.2	40
152	A rapid method to estimate NADH regeneration rates in living cells. Journal of Microbiological Methods, 2016, 130, 92-94.	1.6	1
153	Creating metabolic demand as an engineering strategy in Pseudomonas putida â€“ Rhamnolipid synthesis as an example. Metabolic Engineering Communications, 2016, 3, 234-244.	3.6	73
154	Rhamnolipid biosurfactant analysis using online turbulent flow chromatography-liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2016, 1465, 90-97.	3.7	19
155	Elucidation of the regulatory role of the fructose operon reveals a novel target for enhancing the NADPH supply in Corynebacterium glutamicum. Metabolic Engineering, 2016, 38, 344-357.	7.0	18
156	Draft Genome Sequence of Ustilago trichophora RK089, a Promising Malic Acid Producer. Genome Announcements, 2016, 4, .	0.8	17
157	Genetic and biochemical insights into the itaconate pathway of Ustilago maydis enable enhanced production. Metabolic Engineering, 2016, 38, 427-435.	7.0	58
158	Draft Genome Sequences of Itaconate-Producing Ustilaginaceae. Genome Announcements, 2016, 4, .	0.8	15
159	Activating Intrinsic Carbohydrate-Active Enzymes of the Smut Fungus Ustilago maydis for the Degradation of Plant Cell Wall Components. Applied and Environmental Microbiology, 2016, 82, 5174-5185.	3.1	45
160	The trade-off of availability and growth inhibition through copper for the production of copper-dependent enzymes by Pichia pastoris. BMC Biotechnology, 2016, 16, 20.	3.3	2
161	Efficient malic acid production from glycerol with Ustilago trichophora TZ1. Biotechnology for Biofuels, 2016, 9, 67.	6.2	58
162	Strain- and Substrate-Dependent Redox Mediator and Electricity Production by Pseudomonas aeruginosa. Applied and Environmental Microbiology, 2016, 82, 5026-5038.	3.1	57

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163	Mechanism-specific and whole-organism ecotoxicity of mono-rhamnolipids. Science of the Total Environment, 2016, 548-549, 155-163.	8.0	68
164	Characterization of rhamnolipids by liquid chromatography/mass spectrometry after solid-phase extraction. Analytical and Bioanalytical Chemistry, 2016, 408, 2505-2514.	3.7	48
165	Activation of the Glutamic Acid-Dependent Acid Resistance System in Escherichia coli BL21(DE3) Leads to Increase of the Fatty Acid Biotransformation Activity. PLoS ONE, 2016, 11, e0163265.	2.5	25
166	Plastic waste as a novel substrate for industrial biotechnology. Microbial Biotechnology, 2015, 8, 900-903.	4.2	134
167	Methods for Recombinant Rhamnolipid Production. Springer Protocols, 2015, , 65-94.	0.3	7
168	A Comparison of the Microbial Production and Combustion Characteristics of Three Alcohol Biofuels: Ethanol, 1-Butanol, and 1-Octanol. Frontiers in Bioengineering and Biotechnology, 2015, 3, 112.	4.1	25
169	Engineering mediator-based electroactivity in the obligate aerobic bacterium Pseudomonas putida KT2440. Frontiers in Microbiology, 2015, 6, 284.	3.5	100
170	Metabolic Engineering of Pseudomonas putida KT2440 to Produce Anthranilate from Glucose. Frontiers in Microbiology, 2015, 6, 1310.	3.5	51
171	Whole-Cell Biocatalytic Production of 2,5-Furandicarboxylic Acid. Microbiology Monographs, 2015, , 207-223.	0.6	11
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