Lars M Blank

List of Publications by Year
in descending order

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177	8,206	41344 49	64796 79
papers	citations	h-index	g-index

191	191	191	7281
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Nitrogen Metabolism in Pseudomonas putida: Functional Analysis Using Random Barcode Transposon Sequencing. Applied and Environmental Microbiology, 2022, 88, e0243021.	3.1	8
4	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
5	Assessment of microbial activity by CO₂ production during heating oil storage. Engineering in Life Sciences, 2022, 22, 508-518.	3.6	4
6	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
7	Customized Woven Carbon Fiber Electrodes for Bioelectrochemical Systemsâ€"A Study of Structural Parameters. Frontiers in Chemical Engineering, 2022, 4, .	2.7	1
8	Ustilago maydis Metabolic Characterization and Growth Quantification with a Genome-Scale Metabolic Model. Journal of Fungi (Basel, Switzerland), 2022, 8, 524.	3.5	6
9	Upcycling of hydrolyzed PET by microbial conversion to a fatty acid derivative. Methods in Enzymology, 2021, 648, 391-421.	1.0	9
10	Genome-scale model reconstruction of the methylotrophic yeast Ogataea polymorpha. BMC Biotechnology, 2021, 21, 23.	3.3	7
11	Biodegradation and up-cycling of polyurethanes: Progress, challenges, and prospects. Biotechnology Advances, 2021, 48, 107730.	11.7	95
12	Towards bio-upcycling of polyethylene terephthalate. Metabolic Engineering, 2021, 66, 167-178.	7.0	151
13	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
14	<i>Pseudomonas putida</i> KT2440 endures temporary oxygen limitations. Biotechnology and Bioengineering, 2021, 118, 4735-4750.	3.3	12
15	Brewersâ€™ spent grain as carbon source for itaconate production with engineered Ustilago maydis. Bioresource Technology, 2021, 336, 125262.	9.6	14
16	A Modelâ€Based Workflow to Benchmark the Clinical Cholestasis Risk of Drugs. Clinical Pharmacology and Therapeutics, 2021, 110, 1293-1301.	4.7	3
17	Engineering adipic acid metabolism in Pseudomonas putida. Metabolic Engineering, 2021, 67, 29-40.	7.0	27
18	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

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19	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
20	Insight to Gene Expression From Promoter Libraries With the Machine Learning Workflow Exp2Ipynb. Frontiers in Bioinformatics, 2021, 1, .	2.1	4
21	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
22	Possibilities and limitations of biotechnological plastic degradation and recycling. Nature Catalysis, 2020, 3, 867-871.	34.4	233
23	High titer methyl ketone production with tailored Pseudomonas taiwanensis VLB120. Metabolic Engineering, 2020, 62, 84-94.	7.0	15
24	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
25	Defined Microbial Mixed Culture for Utilization of Polyurethane Monomers. ACS Sustainable Chemistry and Engineering, 2020, 8, 17466-17474.	6.7	60
26	Genetic Cell-Surface Modification for Optimized Foam Fractionation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 572892.	4.1	22
27	Interaction of rhamnolipids with model biomembranes of varying complexity. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183431.	2.6	21
28	A Straightforward Assay for Screening and Quantification of Biosurfactants in Microbial Culture Supernatants. Frontiers in Bioengineering and Biotechnology, 2020, 8, 958.	4.1	20
29	Integration of Genetic and Process Engineering for Optimized Rhamnolipid Production Using Pseudomonas putida. Frontiers in Bioengineering and Biotechnology, 2020, 8, 976.	4.1	56
30	A Combined Bio-Chemical Synthesis Route for 1-Octene Sheds Light on Rhamnolipid Structure. Catalysts, 2020, 10, 874.	3.5	9
31	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
32	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
33	Benzoate Synthesis from Glucose or Glycerol Using Engineered <i>Pseudomonas taiwanensis</i>. Biotechnology Journal, 2020, 15, e2000211.	3.5	10
34	Fatty Acid and Alcohol Metabolism in Pseudomonas putida: Functional Analysis Using Random Barcode Transposon Sequencing. Applied and Environmental Microbiology, 2020, 86, .	3.1	52
35	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
36	Coupling an Electroactive Pseudomonas putida KT2440 with Bioelectrochemical Rhamnolipid Production. Microorganisms, 2020, 8, 1959.	3.6	15

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37	Uncoupling Foam Fractionation and Foam Adsorption for Enhanced Biosurfactant Synthesis and Recovery. Microorganisms, 2020, 8, 2029.	3.6	20
38	Selection of a recyclable<i>in situ</i>liquidâ€“liquid extraction solvent for foam-free synthesis of rhamnolipids in a two-phase fermentation. Green Chemistry, 2020, 22, 8495-8510.	9.0	25
39	Characterization of Context-Dependent Effects on Synthetic Promoters. Frontiers in Bioengineering and Biotechnology, 2020, 8, 551.	4.1	14
40	Unraveling 1,4-Butanediol Metabolism in Pseudomonas putida KT2440. Frontiers in Microbiology, 2020, 11, 382.	3.5	42
41	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
42	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
43	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
44	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
45	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
46	An <i>Ustilago maydis</i> chassis for itaconic acid production without byâ€products. Microbial Biotechnology, 2020, 13, 350-362.	4.2	32
47	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
48	Adaptive laboratory evolution of Pseudomonas putida and Corynebacterium glutamicum to enhance anthranilate tolerance. Microbiology (United Kingdom), 2020, 166, 1025-1037.	1.8	20
49	Evaluation of pyruvate decarboxylaseâ€negative <i>Saccharomyces cerevisiae</i> strains for the production of succinic acid. Engineering in Life Sciences, 2019, 19, 711-720.	3.6	11
50	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
51	Targeting 16S rDNA for Stable Recombinant Gene Expression in <i>Pseudomonas</i>. ACS Synthetic Biology, 2019, 8, 1901-1912.	3.8	19
52	Tailor-made poly-Î³-glutamic acid production. Metabolic Engineering, 2019, 55, 239-248.	7.0	38
53	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
54	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

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55	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
56	Integrated strain- and process design enable production of 220ÂgÂLâˆ'1 itaconic acid with Ustilago maydis. Biotechnology for Biofuels, 2019, 12, 263.	6.2	57
57	Streamlined <i>Pseudomonas taiwanensis</i> VLB120 Chassis Strains with Improved Bioprocess Features. ACS Synthetic Biology, 2019, 8, 2036-2050.	3.8	28
58	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
59	Microfluidic Irreversible Electroporationâ€"A Versatile Tool to Extract Intracellular Contents of Bacteria and Yeast. Metabolites, 2019, 9, 211.	2.9	11
60	The interplay between transport and metabolism in fungal itaconic acid production. Fungal Genetics and Biology, 2019, 125, 45-52.	2.1	28
61	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
62	Laboratory evolution reveals the metabolic and regulatory basis of ethylene glycol metabolism by <i>Pseudomonas putida</i> KT2440. Environmental Microbiology, 2019, 21, 3669-3682.	3.8	85
63	Elevated temperatures do not trigger a conserved metabolic network response among thermotolerant yeasts. BMC Microbiology, 2019, 19, 100.	3.3	16
64	Engineering the morphology and metabolism of pH tolerant Ustilago cynodontis for efficient itaconic acid production. Metabolic Engineering, 2019, 54, 293-300.	7.0	47
65	Process engineering of pH tolerant Ustilago cynodontis for efficient itaconic acid production. Microbial Cell Factories, 2019, 18, 213.	4.0	25
66	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
67	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
68	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
69	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
70	A breath of information: the volatilome. Current Genetics, 2018, 64, 959-964.	1.7	32
71	Malatproduktion aus Rohglycerin mit Ustilago. BioSpektrum, 2018, 24, 218-220.	0.0	0
72	Metabolic engineering of Pseudomonas taiwanensis VLB120 with minimal genomic modifications for high-yield phenol production. Metabolic Engineering, 2018, 47, 121-133.	7.0	87

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73	Defined inoculum for the investigation of microbial contaminations of liquid fuels. International Biodeterioration and Biodegradation, 2018, 132, 84-93.	3.9	9
74	Multi-capillary Column Ion Mobility Spectrometry of Volatile Metabolites for Phenotyping of Microorganisms. Methods in Molecular Biology, 2018, 1671, 229-258.	0.9	2
75	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
76	From beech wood to itaconic acid: case study on biorefinery process integration. Biotechnology for Biofuels, 2018, 11, 279.	6.2	52
77	Online in vivo monitoring of cytosolic NAD redox dynamics in Ustilago maydis. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 1015-1024.	1.0	13
78	CO2 to succinic acid â€" Estimating the potential of biocatalytic routes. Metabolic Engineering Communications, 2018, 7, e00075.	3.6	31
79	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
80	Physiologic and metabolic characterization of Saccharomyces cerevisiae reveals limitations in the synthesis of the triterpene squalene. FEMS Yeast Research, 2018, 18, .	2.3	8
81	Genetic Optimization Algorithm for Metabolic Engineering Revisited. Metabolites, 2018, 8, 33.	2.9	13
82	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
83	Improved microscale cultivation of Pichia pastoris for clonal screening. Fungal Biology and Biotechnology, 2018, 5, 8.	5.1	12
84	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
85	Engineering Pseudomonas putida KT2440 for efficient ethylene glycol utilization. Metabolic Engineering, 2018, 48, 197-207.	7.0	125
86	Metabolic engineering of Ustilago trichophora TZ1 for improved malic acid production. Metabolic Engineering Communications, 2017, 4, 12-21.	3.6	53
87	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
88	Regulation of solvent tolerance inPseudomonas putidaS12 mediated by mobile elements. Microbial Biotechnology, 2017, 10, 1558-1568.	4.2	12
89	Comprehensive Real-Time Analysis of the Yeast Volatilome. Scientific Reports, 2017, 7, 14236.	3.3	34
90	Fermentation and purification strategies for the production of betulinic acid and its lupaneâ€type precursors in <i>Saccharomyces cerevisiae</i>. Biotechnology and Bioengineering, 2017, 114, 2528-2538.	3.3	41

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91	Miniaturized octupole cytometry for cell type independent trapping and analysis. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
92	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
93	Let's talk about flux or the importance of (intracellular) reaction rates. Microbial Biotechnology, 2017, 10, 28-30.	4.2	6
94	Efficient itaconic acid production from glycerol with Ustilago vetiveriae TZ1. Biotechnology for Biofuels, 2017, 10, 131.	6.2	53
95	Metabolic response of <i>Pseudomonas putida</i> to increased NADH regeneration rates. Engineering in Life Sciences, 2017, 17, 47-57.	3.6	27
96	Promoters from the itaconate cluster of Ustilago maydis are induced by nitrogen depletion. Fungal Biology and Biotechnology, 2017, 4, 11.	5.1	23
97	Exploration and Exploitation of the Yeast Volatilome. Current Metabolomics, 2017, 5, .	0.5	15
98	Enhanced malic acid production from glycerol with high-cell density Ustilago trichophora TZ1 cultivations. Biotechnology for Biofuels, 2016, 9, 135.	6.2	64
99	Microbial challenges for domestic heating oil storage tanks. Engineering in Life Sciences, 2016, 16, 474-482.	3.6	1
100	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
101	Dynamics of benzoate metabolism in Pseudomonas putida KT2440. Metabolic Engineering Communications, 2016, 3, 97-110.	3.6	37
102	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
103	<i>Ustilago maydis</i> produces itaconic acid via the unusual intermediate <i>trans</i>â€aconitate. Microbial Biotechnology, 2016, 9, 116-126.	4.2	107
104	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
105	A rapid method to estimate NADH regeneration rates in living cells. Journal of Microbiological Methods, 2016, 130, 92-94.	1.6	1
106	Rhamnolipid biosurfactant analysis using online turbulent flow chromatography-liquid chromatography-tandem mass spectrometry. Journal of Chromatography A, 2016, 1465, 90-97.	3.7	19
107	Draft Genome Sequence of <i>Ustilago trichophora</i> RK089, a Promising Malic Acid Producer. Genome Announcements, 2016, 4, .	0.8	17
108	Genetic and biochemical insights into the itaconate pathway of Ustilago maydis enable enhanced production. Metabolic Engineering, 2016, 38, 427-435.	7.0	58

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109	Draft Genome Sequences of Itaconate-Producing <i>Ustilaginaceae</i>. Genome Announcements, 2016, 4, .	0.8	15
110	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
111	Efficient malic acid production from glycerol with Ustilago trichophora TZ1. Biotechnology for Biofuels, 2016, 9, 67.	6.2	58
112	Strain- and Substrate-Dependent Redox Mediator and Electricity Production by Pseudomonas aeruginosa. Applied and Environmental Microbiology, 2016, 82, 5026-5038.	3.1	57
113	Mechanism-specific and whole-organism ecotoxicity of mono-rhamnolipids. Science of the Total Environment, 2016, 548-549, 155-163.	8.0	68
114	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
115	Plastic waste as a novel substrate for industrial biotechnology. Microbial Biotechnology, 2015, 8, 900-903.	4.2	134
116	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
117	Engineering mediator-based electroactivity in the obligate aerobic bacterium Pseudomonas putida KT2440. Frontiers in Microbiology, 2015, 6, 284.	3.5	100
118	Metabolic Engineering of Pseudomonas putida KT2440 to Produce Anthranilate from Glucose. Frontiers in Microbiology, 2015, 6, 1310.	3.5	51
119	Whole-Cell Biocatalytic Production of 2,5-Furandicarboxylic Acid. Microbiology Monographs, 2015, , 207-223.	0.6	11
120	GC-MS-Based Determination of Mass Isotopomer Distributions for 13C-Based Metabolic Flux Analysis. Springer Protocols, 2015, , 223-243.	0.3	8
121	Integration of biocatalyst and process engineering for sustainable and efficient <i>n</i>â€butanol production. Engineering in Life Sciences, 2015, 15, 4-19.	3.6	18
122	Tn7-Based Device for Calibrated Heterologous Gene Expression in <i>Pseudomonas putida</i>. ACS Synthetic Biology, 2015, 4, 1341-1351.	3.8	169
123	<scp>D</scp>â€Xylose assimilation via the <scp>W</scp>eimberg pathway by solventâ€tolerant <scp><i>P</i></scp><i>seudomonas taiwanensis</i>â€…<scp>VLB</scp>120. Environmental Microbiology, 2015, 17, 156-170.	3.8	55
124	Critical Factors for Microbial Contamination of Domestic Heating Oil. Energy & Fuels, 2015, 29, 6394-6403.	5.1	16
125	Multi-Capillary Column-Ion Mobility Spectrometry of Volatile Metabolites Emitted by Saccharomyces Cerevisiae. Metabolites, 2014, 4, 751-774.	2.9	13
126	A minimal growth medium for the basidiomycete Pleurotus sapidus for metabolic flux analysis. Fungal Biology and Biotechnology, 2014, 1, 9.	5.1	11

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127	Prospecting the biodiversity of the fungal family Ustilaginaceae for the production of value-added chemicals. Fungal Biology and Biotechnology, 2014, 1, 2.	5.1	80
128	A blueprint of the amino acid biosynthesis network of hemiascomycetes. FEMS Yeast Research, 2014, 14, n/a-n/a.	2.3	17
129	Improved sake metabolic profile during fermentation due to increased mitochondrial pyruvate dissimilation. FEMS Yeast Research, 2014, 14, 249-260.	2.3	14
130	The Functional Structure of Central Carbon Metabolism in Pseudomonas putida KT2440. Applied and Environmental Microbiology, 2014, 80, 5292-5303.	3.1	93
131	High temperature stimulates acetic acid accumulation and enhances the growth inhibition and ethanol production by Saccharomyces cerevisiae under fermenting conditions. Applied Microbiology and Biotechnology, 2014, 98, 6085-6094.	3.6	43
132	Successful Downsizing for High-Throughput 13C-MFA Applications. Methods in Molecular Biology, 2014, 1191, 127-142.	0.9	4
133	Identification of an endo-1,4-beta-xylanase of Ustilago maydis. BMC Biotechnology, 2013, 13, 59.	3.3	31
134	Complete genome sequence of Pseudomonas sp. strain VLB120 a solvent tolerant, styrene degrading bacterium, isolated from forest soil. Journal of Biotechnology, 2013, 168, 729-730.	3.8	51
135	From measurement to implementation of metabolic fluxes. Current Opinion in Biotechnology, 2013, 24, 13-21.	6.6	13
136	Subtoxic product levels limit the epoxidation capacity of recombinant E. coli by increasing microbial energy demands. Journal of Biotechnology, 2013, 163, 194-203.	3.8	25
137	Picoliter nDEP traps enable time-resolved contactless single bacterial cell analysis in controlled microenvironments. Lab on A Chip, 2013, 13, 397-408.	6.0	42
138	Proline Availability Regulates Proline-4-Hydroxylase Synthesis and Substrate Uptake in Proline-Hydroxylating Recombinant Escherichia coli. Applied and Environmental Microbiology, 2013, 79, 3091-3100.	3.1	33
139	The cell and P: from cellular function to biotechnological application. Current Opinion in Biotechnology, 2012, 23, 846-851.	6.6	34
140	Flux-P: Automating Metabolic Flux Analysis. Metabolites, 2012, 2, 872-890.	2.9	28
141	Analysis of carbon and nitrogen co-metabolism in yeast by ultrahigh-resolution mass spectrometry applying 13C- and 15N-labeled substrates simultaneously. Analytical and Bioanalytical Chemistry, 2012, 403, 2291-2305.	3.7	27
142	The glycerophospholipid inventory of <i>Pseudomonas putida</i> is conserved between strains and enables growth conditionâ€related alterations. Microbial Biotechnology, 2012, 5, 45-58.	4.2	42
143	Ethanol reduces mitochondrial membrane integrity and thereby impacts carbon metabolism of Saccharomyces cerevisiae. FEMS Yeast Research, 2012, 12, 675-684.	2.3	53
144	Engineering yield and rate of reductive biotransformation in Escherichia coli by partial cyclization of the pentose phosphate pathway and PTS-independent glucose transport. Applied Microbiology and Biotechnology, 2012, 93, 1459-1467.	3.6	32

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145	Pressure-resistant and reversible on-tube-sealing for microfluidics. Microfluidics and Nanofluidics, 2011, 10, 679-684.	2.2	8
146	Growth independent rhamnolipid production from glucose using the non-pathogenic Pseudomonas putida KT2440. Microbial Cell Factories, 2011, 10, 80.	4.0	206
147	Carbon metabolism limits recombinant protein production in <i>Pichia pastoris</i>. Biotechnology and Bioengineering, 2011, 108, 1942-1953.	3.3	93
148	Quantification of metabolic limitations during recombinant protein production in Escherichia coli. Journal of Biotechnology, 2011, 155, 178-184.	3.8	58
149	Response of Pseudomonas putida KT2440 to Increased NADH and ATP Demand. Applied and Environmental Microbiology, 2011, 77, 6597-6605.	3.1	110
150	Metabolic flux distributions: genetic information, computational predictions, and experimental validation. Applied Microbiology and Biotechnology, 2010, 86, 1243-1255.	3.6	29
151	Systems biotechnology â€“ Rational wholeâ€cell biocatalyst and bioprocess design. Engineering in Life Sciences, 2010, 10, 384-397.	3.6	51
152	Redox Biocatalysis and Metabolism: Molecular Mechanisms and Metabolic Network Analysis. Antioxidants and Redox Signaling, 2010, 13, 349-394.	5.4	101
153	Simple enzymatic procedure for <scp>l</scp>â€carnosine synthesis: wholeâ€cell biocatalysis and efficient biocatalyst recycling. Microbial Biotechnology, 2010, 3, 74-83.	4.2	34
154	Quantitative physiology of <i>Pichia pastoris</i> during glucoseâ€limited highâ€cell density fedâ€batch cultivation for recombinant protein production. Biotechnology and Bioengineering, 2010, 107, 357-368.	3.3	90
155	Chemical and biological single cell analysis. Current Opinion in Biotechnology, 2010, 21, 12-20.	6.6	173
156	Hypothesis-driven omics integration. Nature Chemical Biology, 2010, 6, 485-487.	8.0	22
157	Grand Challenge Commentary: Chassis cells for industrial biochemical production. Nature Chemical Biology, 2010, 6, 875-877.	8.0	64
158	Metabolic and Transcriptional Response to Cofactor Perturbations in Escherichia coli. Journal of Biological Chemistry, 2010, 285, 17498-17506.	3.4	115
159	Single Cell Analytics: An Overview. Advances in Biochemical Engineering/Biotechnology, 2010, 124, 99-122.	1.1	16
160	Single cell analysis reveals unexpected growth phenotype of <i>S. cerevisiae</i>. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 130-139.	1.5	25
161	Metabolic flux analysis of a phenol producing mutant of Pseudomonas putida S12: Verification and complementation of hypotheses derived from transcriptomics. Journal of Biotechnology, 2009, 143, 124-129.	3.8	25
162	The Envirostat â€“ a new bioreactor concept. Lab on A Chip, 2009, 9, 576-585.	6.0	58

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163	Towards real time analysis of protein secretion from single cells. Lab on A Chip, 2009, 9, 3047.	6.0	21
164	Correlation between TCA cycle flux and glucose uptake rate during respiro-fermentative growth of Saccharomyces cerevisiae. Microbiology (United Kingdom), 2009, 155, 3827-3837.	1.8	91
165	Evolution of the Hyaluronic Acid Synthesis (has) Operon in Streptococcus zooepidemicus and Other Pathogenic Streptococci. Journal of Molecular Evolution, 2008, 67, 13-22.	1.8	58
166	Metabolic capacity estimation of <i>Escherichia coli</i> as a platform for redox biocatalysis: constraintâ€based modeling and experimental verification. Biotechnology and Bioengineering, 2008, 100, 1050-1065.	3.3	84
167	Metabolic response of <i>Pseudomonasâ€ƒputida</i> during redox biocatalysis in the presence of a second octanol phase. FEBS Journal, 2008, 275, 5173-5190.	4.7	135
168	NADH Availability Limits Asymmetric Biocatalytic Epoxidation in a Growing Recombinant <i>Escherichia coli</i> Strain. Applied and Environmental Microbiology, 2008, 74, 1436-1446.	3.1	74
169	Increased TCA cycle activity and reduced oxygen consumption during cytochrome P450-dependent biotransformation in fission yeast. Yeast, 2006, 23, 779-794.	1.7	27
170	Metabolic-flux and network analysis in fourteen hemiascomycetous yeasts. FEMS Yeast Research, 2005, 5, 545-558.	2.3	192
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