

Lars Keld Nielsen

List of Publications by Year in descending order

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267
papers

15,293
citations

17440

63
h-index

24982

109
g-index

285
all docs

285
docs citations

285
times ranked

18602
citing authors

#	ARTICLE	IF	CITATIONS
1	Fermentative butanol production by clostridia. <i>Biotechnology and Bioengineering</i> , 2008, 101, 209-228.	3.3	909
2	Method for generation of homogeneous multicellular tumor spheroids applicable to a wide variety of cell types. <i>Biotechnology and Bioengineering</i> , 2003, 83, 173-180.	3.3	777
3	Genomic characterization of the uncultured Bacteroidales family S24-7 inhabiting the guts of homeothermic animals. <i>Microbiome</i> , 2016, 4, 36.	11.1	533
4	Functional screening in human cardiac organoids reveals a metabolic mechanism for cardiomyocyte cell cycle arrest. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8372-E8381.	7.1	361
5	AraGEM, a Genome-Scale Reconstruction of the Primary Metabolic Network in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 152, 579-589.	4.8	319
6	MEMOTE for standardized genome-scale metabolic model testing. <i>Nature Biotechnology</i> , 2020, 38, 272-276.	17.5	314
7	Microbial hyaluronic acid production. <i>Applied Microbiology and Biotechnology</i> , 2005, 66, 341-351.	3.6	305
8	Towards quantitative metabolomics of mammalian cells: Development of a metabolite extraction protocol. <i>Analytical Biochemistry</i> , 2010, 404, 155-164.	2.4	289
9	Recon 2.2: from reconstruction to model of human metabolism. <i>Metabolomics</i> , 2016, 12, 109.	3.0	243
10	Genome-wide discovery of human splicing branchpoints. <i>Genome Research</i> , 2015, 25, 290-303.	5.5	222
11	OpenFLUX: efficient modelling software for ¹³ C-based metabolic flux analysis. <i>Microbial Cell Factories</i> , 2009, 8, 25.	4.0	218
12	Metabolic and practical considerations on microbial electrosynthesis. <i>Current Opinion in Biotechnology</i> , 2011, 22, 371-377.	6.6	207
13	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. <i>Cell Systems</i> , 2016, 3, 434-443.e8.	6.2	205
14	Molecular Composition of IMP1 Ribonucleoprotein Granules. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 798-811.	3.8	201
15	C4GEM, a Genome-Scale Metabolic Model to Study C4 Plant Metabolism. <i>Plant Physiology</i> , 2010, 154, 1871-1885.	4.8	190
16	An environmental life cycle assessment comparing Australian sugarcane with US corn and UK sugar beet as producers of sugars for fermentation. <i>Biomass and Bioenergy</i> , 2008, 32, 1144-1155.	5.7	189
17	Microbial Propionic Acid Production. <i>Fermentation</i> , 2017, 3, 21.	3.0	185
18	Metabolic flux analysis in mammalian cell culture. <i>Metabolic Engineering</i> , 2010, 12, 161-171.	7.0	182

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19	Generation of Multicellular Tumor Spheroids by the Hanging-Drop Method. <i>Methods in Molecular Medicine</i> , 2007, 140, 141-151.	0.8	181
20	Targeted sequencing for gene discovery and quantification using RNA CaptureSeq. <i>Nature Protocols</i> , 2014, 9, 989-1009.	12.0	171
21	Modeling Hybridoma Cell Metabolism Using a Generic Genome-Scale Metabolic Model of <i>Mus musculus</i> . <i>Biotechnology Progress</i> , 2008, 21, 112-121.	2.6	166
22	Alleviating monoterpene toxicity using a two-phase extractive fermentation for the bioproduction of jet fuel mixtures in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 2012, 109, 2513-2522.	3.3	164
23	Controlling heterologous gene expression in yeast cell factories on different carbon substrates and across the diauxic shift: a comparison of yeast promoter activities. <i>Microbial Cell Factories</i> , 2015, 14, 91.	4.0	161
24	Hanging-drop multicellular spheroids as a model of tumour angiogenesis. <i>Angiogenesis</i> , 2004, 7, 97-103.	7.2	159
25	The genome sequence of <i>E. coli</i> W (ATCC 9637): comparative genome analysis and an improved genome-scale reconstruction of <i>E. coli</i> . <i>BMC Genomics</i> , 2011, 12, 9.	2.8	159
26	Quantitative gene profiling of long noncoding RNAs with targeted RNA sequencing. <i>Nature Methods</i> , 2015, 12, 339-342.	19.0	155
27	Low carbon fuels and commodity chemicals from waste gases – systematic approach to understand energy metabolism in a model acetogen. <i>Green Chemistry</i> , 2016, 18, 3020-3028.	9.0	143
28	Maintenance of ATP Homeostasis Triggers Metabolic Shifts in Gas-Fermenting Acetogens. <i>Cell Systems</i> , 2017, 4, 505-515.e5.	6.2	128
29	Formulation, construction and analysis of kinetic models of metabolism: A review of modelling frameworks. <i>Biotechnology Advances</i> , 2017, 35, 981-1003.	11.7	128
30	Design of Artificial Myocardial Microtissues. <i>Tissue Engineering</i> , 2004, 10, 201-214.	4.6	125
31	Spliced synthetic genes as internal controls in RNA sequencing experiments. <i>Nature Methods</i> , 2016, 13, 792-798.	19.0	123
32	Quorum-sensing linked RNA interference for dynamic metabolic pathway control in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2015, 29, 124-134.	7.0	118
33	Technoeconomic analysis of renewable aviation fuel from microalgae, <i>Pongamia pinnata</i> , and sugarcane. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 416-428.	3.7	112
34	DNase I hypersensitive exons colocalize with promoters and distal regulatory elements. <i>Nature Genetics</i> , 2013, 45, 852-859.	21.4	112
35	Universal Alternative Splicing of Noncoding Exons. <i>Cell Systems</i> , 2018, 6, 245-255.e5.	6.2	110
36	AlgaGEM – a genome-scale metabolic reconstruction of algae based on the <i>Chlamydomonas reinhardtii</i> genome. <i>BMC Genomics</i> , 2011, 12, S5.	2.8	109

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37	Flux balance analysis of CHO cells before and after a metabolic switch from lactate production to consumption. <i>Biotechnology and Bioengineering</i> , 2013, 110, 660-666.	3.3	106
38	H ₂ drives metabolic rearrangements in gas-fermenting <i>Clostridium autoethanogenum</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 55.	6.2	103
39	Spatio-temporal characterization of polyhydroxybutyrate accumulation in sugarcane. <i>Plant Biotechnology Journal</i> , 2007, 5, 173-184.	8.3	102
40	Modeling and optimization of the baculovirus expression vector system in batch suspension culture. <i>Biotechnology and Bioengineering</i> , 1994, 44, 710-719.	3.3	101
41	A Multi-Omics Analysis of Recombinant Protein Production in Hek293 Cells. <i>PLoS ONE</i> , 2012, 7, e43394.	2.5	99
42	Metabolite profiling of CHO cells with different growth characteristics. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1404-1414.	3.3	98
43	Arginine deiminase pathway provides ATP and boosts growth of the gas-fermenting acetogen <i>Clostridium autoethanogenum</i> . <i>Metabolic Engineering</i> , 2017, 41, 202-211.	7.0	96
44	Production of polyhydroxybutyrate in sugarcane. <i>Plant Biotechnology Journal</i> , 2007, 5, 162-172.	8.3	94
45	A multi-tissue genome-scale metabolic modeling framework for the analysis of whole plant systems. <i>Frontiers in Plant Science</i> , 2015, 6, 4.	3.6	94
46	A squalene synthase protein degradation method for improved sesquiterpene production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2017, 39, 209-219.	7.0	91
47	Bioreactors for Hematopoietic Cell Culture. <i>Annual Review of Biomedical Engineering</i> , 1999, 1, 129-152.	12.3	90
48	Engineered protein degradation of farnesyl pyrophosphate synthase is an effective regulatory mechanism to increase monoterpene production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2018, 47, 83-93.	7.0	89
49	Low multiplicity infection of insect cells with a recombinant baculovirus: The cell yield concept. , 2000, 49, 659-666.		85
50	Physiological and Transcriptional Responses of <i>Saccharomyces cerevisiae</i> to α -Limonene Show Changes to the Cell Wall but Not to the Plasma Membrane. <i>Applied and Environmental Microbiology</i> , 2013, 79, 3590-3600.	3.1	84
51	Hyaluronan Molecular Weight Is Controlled by UDP-N-acetylglucosamine Concentration in <i>Streptococcus zooepidemicus</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 18007-18014.	3.4	83
52	Deep sequencing-based transcriptome analysis of <i>Plutella xylostella</i> larvae parasitized by <i>Diadegma semiclausum</i> . <i>BMC Genomics</i> , 2011, 12, 446.	2.8	82
53	Synthetic microbe communities provide internal reference standards for metagenome sequencing and analysis. <i>Nature Communications</i> , 2018, 9, 3096.	12.8	81
54	Ultra-High-Yield Manufacture of Red Blood Cells from Hematopoietic Stem Cells. <i>Tissue Engineering - Part C: Methods</i> , 2011, 17, 1131-1137.	2.1	79

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55	Enhancing CO ₂ -Valorization Using <i>Clostridium autoethanogenum</i> for Sustainable Fuel and Chemicals Production. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 204.	4.1	79
56	Stoichiometric modeling of <i>Clostridium acetobutylicum</i> fermentations with non-linear constraints. <i>Journal of Biotechnology</i> , 1999, 71, 191-205.	3.8	76
57	Functional proteomic analysis of GS-NS0 murine myeloma cell lines with varying recombinant monoclonal antibody production rate. <i>Biotechnology and Bioengineering</i> , 2006, 94, 830-841.	3.3	76
58	Molecular Control of Sucrose Utilization in <i>Escherichia coli</i> W, an Efficient Sucrose-Utilizing Strain. <i>Applied and Environmental Microbiology</i> , 2013, 79, 478-487.	3.1	76
59	Hemocytometer Cell Count Distributions: Implications of Non-Poisson Behavior. <i>Biotechnology Progress</i> , 1991, 7, 560-563.	2.6	74
60	Knock-in/Knock-out (KIKO) vectors for rapid integration of large DNA sequences, including whole metabolic pathways, onto the <i>Escherichia coli</i> chromosome at well-characterised loci. <i>Microbial Cell Factories</i> , 2013, 12, 60.	4.0	74
61	Construction of feasible and accurate kinetic models of metabolism: A Bayesian approach. <i>Scientific Reports</i> , 2016, 6, 29635.	3.3	72
62	Plant genome-scale metabolic reconstruction and modelling. <i>Current Opinion in Biotechnology</i> , 2013, 24, 271-277.	6.6	71
63	Characterization of Hematopoietic Cell Expansion, Oxygen Uptake, and Glycolysis in a Controlled, Stirred-Tank Bioreactor System. <i>Biotechnology Progress</i> , 1998, 14, 466-472.	2.6	68
64	Do genome-scale models need exact solvers or clearer standards?. <i>Molecular Systems Biology</i> , 2015, 11, 831.	7.2	68
65	Blood cell manufacture: current methods and future challenges. <i>Trends in Biotechnology</i> , 2009, 27, 415-422.	9.3	67
66	Engineering and adaptive evolution of <i>Escherichia coli</i> for d-lactate fermentation reveals GatC as a xylose transporter. <i>Metabolic Engineering</i> , 2012, 14, 469-476.	7.0	65
67	Revisiting the Evolution and Taxonomy of Clostridia, a Phylogenomic Update. <i>Genome Biology and Evolution</i> , 2019, 11, 2035-2044.	2.5	65
68	Development of chemically defined medium for <i>Mannheimia succiniciproducens</i> based on its genome sequence. <i>Applied Microbiology and Biotechnology</i> , 2008, 79, 263-272.	3.6	63
69	Engineered Quorum Sensing Using Pheromone-Mediated Cell-to-Cell Communication in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2013, 2, 136-149.	3.8	62
70	Aerobic cultivation of <i>Streptococcus zooepidemicus</i> and the role of NADH oxidase. <i>Biochemical Engineering Journal</i> , 2003, 16, 153-162.	3.6	61
71	Amplifying the cellular reduction potential of. <i>Journal of Biotechnology</i> , 2003, 100, 33-41.	3.8	61
72	Cyclic di-AMP synthesis by the diadenylate cyclase CdaA is modulated by the peptidoglycan biosynthesis enzyme GlmM in <i>actococcus lactis</i> . <i>Molecular Microbiology</i> , 2016, 99, 1015-1027.	2.5	61

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73	High-Antibody-Producing Chinese Hamster Ovary Cells Up-Regulate Intracellular Protein Transport and Glutathione Synthesis. <i>Journal of Proteome Research</i> , 2015, 14, 609-618.	3.7	60
74	Relationship between oxygen uptake rate and time of infection of Sf9 insect cells infected with a recombinant baculovirus. <i>Cytotechnology</i> , 1994, 15, 157-167.	1.6	58
75	Evolution of the Hyaluronic Acid Synthesis (has) Operon in <i>Streptococcus zooepidemicus</i> and Other Pathogenic <i>Streptococci</i> . <i>Journal of Molecular Evolution</i> , 2008, 67, 13-22.	1.8	58
76	Systems-level engineering and characterisation of <i>Clostridium autoethanogenum</i> through heterologous production of poly-3-hydroxybutyrate (PHB). <i>Metabolic Engineering</i> , 2019, 53, 14-23.	7.0	57
77	Stable production of hyaluronic acid in <i>Streptococcus zooepidemicus</i> chemostats operated at high dilution rate. <i>Biotechnology and Bioengineering</i> , 2005, 90, 685-693.	3.3	55
78	Reducing Recon 2 for steady-state flux analysis of HEK cell culture. <i>Journal of Biotechnology</i> , 2014, 184, 172-178.	3.8	54
79	Dynamic metabolic flux analysis using B-splines to study the effects of temperature shift on CHO cell metabolism. <i>Metabolic Engineering Communications</i> , 2015, 2, 46-57.	3.6	54
80	Redox controls metabolic robustness in the gas-fermenting acetogen <i>Clostridium autoethanogenum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13168-13175.	7.1	54
81	Coupling gene regulatory patterns to bioprocess conditions to optimize synthetic metabolic modules for improved sesquiterpene production in yeast. <i>Biotechnology for Biofuels</i> , 2017, 10, 43.	6.2	53
82	Minimizing Clonal Variation during Mammalian Cell Line Engineering for Improved Systems Biology Data Generation. <i>ACS Synthetic Biology</i> , 2018, 7, 2148-2159.	3.8	51
83	The hematopoietic stem cell niche: what are we trying to replicate?. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 421-443.	3.2	50
84	2,2-Diphenyl-1-picrylhydrazyl as a screening tool for recombinant monoterpene biosynthesis. <i>Microbial Cell Factories</i> , 2013, 12, 76.	4.0	48
85	Kinetics of baculovirus replication and release using real-time quantitative polymerase chain reaction. <i>Biotechnology and Bioengineering</i> , 2002, 77, 476-480.	3.3	47
86	Accuracy of the endpoint assay for virus titration. <i>Cytotechnology</i> , 1992, 8, 231-236.	1.6	46
87	Development of sucrose-utilizing <i>Escherichia coli</i> K-12 strain by cloning β -fructofuranosidases and its application for L-threonine production. <i>Applied Microbiology and Biotechnology</i> , 2010, 88, 905-913.	3.6	46
88	HR Index-A Simple Method for the Prediction of Oxygen Uptake. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 2005-2012.	0.4	46
89	Enhanced polyhydroxybutyrate production in transgenic sugarcane. <i>Plant Biotechnology Journal</i> , 2012, 10, 569-578.	8.3	46
90	Improving culture performance and antibody production in CHO cell culture processes by reducing the Warburg effect. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2315-2327.	3.3	46

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91	What CHO is made of: Variations in the biomass composition of Chinese hamster ovary cell lines. <i>Metabolic Engineering</i> , 2020, 61, 288-300.	7.0	46
92	Dual gene expression cassette vectors with antibiotic selection markers for engineering in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2013, 12, 96.	4.0	45
93	Clinical scale ex vivo manufacture of neutrophils from hematopoietic progenitor cells. <i>Biotechnology and Bioengineering</i> , 2009, 104, 832-840.	3.3	44
94	Genome Scale Transcriptomics of Baculovirus-Insect Interactions. <i>Viruses</i> , 2013, 5, 2721-2747.	3.3	44
95	Evolutionary Engineering Improves Tolerance for Replacement Jet Fuels in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 3316-3325.	3.1	44
96	Surface-bound stem cell factor and the promotion of hematopoietic cell expansion. <i>Biomaterials</i> , 2009, 30, 4047-4052.	11.4	43
97	Insight into hyaluronic acid molecular weight control. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 6947-6956.	3.6	43
98	Hemin Reconstitutes Proton Extrusion in an H ⁺ -ATPase-Negative Mutant of <i>Lactococcus lactis</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6707-6709.	2.2	42
99	Mammalian cells as biopharmaceutical production hosts in the age of omics. <i>Biotechnology Journal</i> , 2012, 7, 75-89.	3.5	42
100	Dynamic Balancing of Isoprene Carbon Sources Reflects Photosynthetic and Photorespiratory Responses to Temperature Stress. <i>Plant Physiology</i> , 2014, 166, 2051-2064.	4.8	41
101	Model-guided dynamic control of essential metabolic nodes boosts acetyl-coenzyme A-dependent bioproduction in rewired <i>Pseudomonas putida</i> . <i>Metabolic Engineering</i> , 2021, 67, 373-386.	7.0	41
102	Generation and Maturation of Dendritic Cells for Clinical Application Under Serum-Free Conditions. <i>Journal of Immunotherapy</i> , 2005, 28, 599-609.	2.4	40
103	Increased biomass yield of <i>Lactococcus lactis</i> during energetically limited growth and respiratory conditions. <i>Biotechnology and Applied Biochemistry</i> , 2008, 50, 25-33.	3.1	39
104	Toward industrial production of isoprenoids in <i>Escherichia coli</i> : Lessons learned from CRISPR-Cas9 based optimization of a chromosomally integrated mevalonate pathway. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1000-1013.	3.3	39
105	Multicopy Targeted Integration for Accelerated Development of High-Producing Chinese Hamster Ovary Cells. <i>ACS Synthetic Biology</i> , 2020, 9, 2546-2561.	3.8	39
106	Metabolic Profiling and Flux Analysis of MEL-2 Human Embryonic Stem Cells during Exponential Growth at Physiological and Atmospheric Oxygen Concentrations. <i>PLoS ONE</i> , 2014, 9, e112757.	2.5	38
107	Representing genetic variation with synthetic DNA standards. <i>Nature Methods</i> , 2016, 13, 784-791.	19.0	37
108	Ammonia inhibition of hybridomas propagated in batch, fed-batch, and continuous culture. <i>Biotechnology and Bioengineering</i> , 1994, 43, 434-438.	3.3	36

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109	ll-ACHRB: a scalable algorithm for sampling the feasible solution space of metabolic networks. <i>Bioinformatics</i> , 2016, 32, 2330-2337.	4.1	36
110	Deletion of cscR in <i>Escherichia coli</i> W improves growth and poly-3-hydroxybutyrate (PHB) production from sucrose in fed batch culture. <i>Journal of Biotechnology</i> , 2011, 156, 275-278.	3.8	35
111	Reconstruction of the <i>Saccharopolyspora erythraea</i> genome-scale model and its use for enhancing erythromycin production. <i>Antonie Van Leeuwenhoek</i> , 2012, 102, 493-502.	1.7	35
112	An Expanded Heterologous <i>GAL</i> Promoter Collection for Diauxie-Inducible Expression in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 748-751.	3.8	35
113	Modelling the growth and protein production by insect cells following infection by a recombinant baculovirus in suspension culture. <i>Cytotechnology</i> , 1992, 9, 149-155.	1.6	33
114	A transferable sucrose utilization approach for non-sucrose-utilizing <i>Escherichia coli</i> strains. <i>Biotechnology Advances</i> , 2012, 30, 1001-1010.	11.7	33
115	<i>Saccharopolyspora erythraea</i> genome is organised in high-order transcriptional regions mediated by targeted degradation at the metabolic switch. <i>BMC Genomics</i> , 2013, 14, 15.	2.8	33
116	A General Framework for Thermodynamically Consistent Parameterization and Efficient Sampling of Enzymatic Reactions. <i>PLoS Computational Biology</i> , 2015, 11, e1004195.	3.2	33
117	Method for the generation and cultivation of functional three-dimensional mammary constructs without exogenous extracellular matrix. <i>Cell and Tissue Research</i> , 2005, 320, 207-210.	2.9	32
118	IL10 and IL12B polymorphisms each influence IL-12p70 secretion by dendritic cells in response to LPS. <i>Immunology and Cell Biology</i> , 2006, 84, 227-232.	2.3	32
119	Altered Fatty Acid Metabolism in Long Duration Road Transport: An NMR-based Metabonomics Study in Sheep. <i>Journal of Proteome Research</i> , 2011, 10, 1073-1087.	3.7	32
120	Network Thermodynamic Curation of Human and Yeast Genome-Scale Metabolic Models. <i>Biophysical Journal</i> , 2014, 107, 493-503.	0.5	32
121	Multicenter European Prevalence Study of Neurocognitive Impairment and Associated Factors in HIV Positive Patients. <i>AIDS and Behavior</i> , 2018, 22, 1573-1583.	2.7	32
122	Plant genome-scale reconstruction: from single cell to multi-tissue modelling and omics analyses. <i>Current Opinion in Biotechnology</i> , 2018, 49, 42-48.	6.6	32
123	Attenuating apoptosis in Chinese hamster ovary cells for improved biopharmaceutical production. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1187-1203.	3.3	31
124	On the reconstruction of the <i>Mus musculus</i> genome-scale metabolic network model. <i>Genome Informatics</i> , 2008, 21, 89-100.	0.4	31
125	Tissue transplantation by stealth Coherent alginate microcapsules for immunoisolation. <i>Biochemical Engineering Journal</i> , 2010, 48, 337-347.	3.6	30
126	Emulsion strategies in the microencapsulation of cells: Pathways to thin coherent membranes. <i>Biotechnology and Bioengineering</i> , 2005, 92, 45-53.	3.3	29

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127	ON THE RECONSTRUCTION OF THE <i>MUS MUSCULUS</i> GENOME-SCALE METABOLIC NETWORK MODEL , 2008, , .		29
128	Quantitative analysis of intracellular sugar phosphates and sugar nucleotides in encapsulated streptococci using HPAEC-PAD. <i>Biotechnology Journal</i> , 2009, 4, 58-63.	3.5	29
129	The ascorbic acid paradox. <i>Biochemical and Biophysical Research Communications</i> , 2010, 400, 466-470.	2.1	29
130	Advances in analytical tools for high throughput strain engineering. <i>Current Opinion in Biotechnology</i> , 2018, 54, 33-40.	6.6	29
131	Shedding light: The importance of reverse transcription efficiency standards in data interpretation. <i>Biomolecular Detection and Quantification</i> , 2019, 17, 100077.	7.0	29
132	Dynamic regulation of gene expression using sucrose responsive promoters and RNA interference in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2015, 14, 43.	4.0	28
133	RNA-Seq Highlights High Clonal Variation in Monoclonal Antibody Producing CHO Cells. <i>Biotechnology Journal</i> , 2018, 13, e1700231.	3.5	28
134	Transcriptome Sequencing of and Microarray Development for a <i>Helicoverpa zea</i> Cell Line to Investigate In Vitro Insect Cell-Baculovirus Interactions. <i>PLoS ONE</i> , 2012, 7, e36324.	2.5	28
135	Synthesis and characterization of alginate/poly-L-ornithine/alginate microcapsules for local immunosuppression. <i>Journal of Microencapsulation</i> , 2008, 25, 387-398.	2.8	27
136	In vitro production of <i>Helicoverpa baculovirus</i> biopesticides—Automated selection of insect cell clones for manufacturing and systems biology studies. <i>Journal of Virological Methods</i> , 2011, 175, 197-205.	2.1	27
137	<i>Escherichia coli</i> W shows fast, highly oxidative sucrose metabolism and low acetate formation. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 9033-9044.	3.6	27
138	The Role of Hyaluronic Acid Precursor Concentrations in Molecular Weight Control in <i>Streptococcus zooepidemicus</i> . <i>Molecular Biotechnology</i> , 2014, 56, 147-156.	2.4	26
139	A depth-first search algorithm to compute elementary flux modes by linear programming. <i>BMC Systems Biology</i> , 2014, 8, 94.	3.0	26
140	Real-time method for determining the colony-forming cell content of human hematopoietic cell cultures. , 1997, 55, 693-700.		25
141	Engineering a mammalian super producer. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 905-914.	3.2	25
142	Genome scale analysis of differential mRNA expression of <i>Helicoverpa zea</i> insect cells infected with a <i>H. armigera</i> baculovirus. <i>Virology</i> , 2013, 444, 158-170.	2.4	25
143	Toward Synthetic Biology Strategies for Adipic Acid Production: An <i>in Silico</i> Tool for Combined Thermodynamics and Stoichiometric Analysis of Metabolic Networks. <i>ACS Synthetic Biology</i> , 2018, 7, 490-509.	3.8	25
144	Systems analysis of methylerythritol-phosphate pathway flux in <i>E. coli</i> : insights into the role of oxidative stress and the validity of lycopene as an isoprenoid reporter metabolite. <i>Microbial Cell Factories</i> , 2015, 14, 193.	4.0	24

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145	Metabolic Reconstruction of <i>Setaria italica</i> : A Systems Biology Approach for Integrating Tissue-Specific Omics and Pathway Analysis of Bioenergy Grasses. <i>Frontiers in Plant Science</i> , 2016, 7, 1138.	3.6	24
146	Monocyte-derived DC Primed With TLR Agonists Secrete IL-12p70 in a CD40-dependent Manner Under Hyperthermic Conditions. <i>Journal of Immunotherapy</i> , 2006, 29, 606-615.	2.4	23
147	Manufactured RBC – Rivers of blood, or an oasis in the desert?. <i>Biotechnology Advances</i> , 2011, 29, 661-666.	11.7	23
148	Improved production of propionic acid using genome shuffling. <i>Biotechnology Journal</i> , 2017, 12, 1600120.	3.5	23
149	SmartPeak Automates Targeted and Quantitative Metabolomics Data Processing. <i>Analytical Chemistry</i> , 2020, 92, 15968-15974.	6.5	23
150	Temporal Dynamics of the <i>Saccharopolyspora erythraea</i> Phosphoproteome. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 1219-1230.	3.8	22
151	Cell cycle model to describe animal cell size variation and lag between cell number and biomass dynamics. , 1997, 56, 372-379.		21
152	Lactic acid enrichment with inorganic nanofiltration and molecular sieving membranes by pervaporation. <i>Food and Bioproducts Processing</i> , 2008, 86, 290-295.	3.6	21
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