

# Nathan E Lewis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1293008/publications.pdf>

Version: 2024-02-01

148  
papers

15,305  
citations

50276

46  
h-index

22832

112  
g-index

200  
all docs

200  
docs citations

200  
times ranked

15681  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural responses to affective speech, including motherese, map onto clinical and social eye tracking profiles in toddlers with ASD. <i>Nature Human Behaviour</i> , 2022, 6, 443-454.	12.0	14
2	Restoration of DNA repair mitigates genome instability and increases productivity of Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , 2022, 119, 963-982.	3.3	11
3	Valine feeding reduces ammonia production through rearrangement of metabolic fluxes in central carbon metabolism of CHO cells. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 1113-1126.	3.6	4
4	Multiplex genome editing of mammalian cells for producing recombinant heparin. <i>Metabolic Engineering</i> , 2022, 70, 155-165.	7.0	5
5	Harnessing secretory pathway differences between HEK293 and CHO to rescue production of difficult to express proteins. <i>Metabolic Engineering</i> , 2022, 72, 171-187.	7.0	13
6	LIGHT controls distinct homeostatic and inflammatory gene expression profiles in esophageal fibroblasts via differential HVEM and LT1 <sup>2</sup> R-mediated mechanisms. <i>Mucosal Immunology</i> , 2022, 15, 327-337.	6.0	8
7	Elucidating Human Milk Oligosaccharide biosynthetic genes through network-based multi-omics integration. <i>Nature Communications</i> , 2022, 13, 2455.	12.8	27
8	Artificial intelligence in the analysis of glycosylation data. <i>Biotechnology Advances</i> , 2022, 60, 108008.	11.7	7
9	Context-aware deconvolution of cell-cell communication with Tensor-cell2cell. <i>Nature Communications</i> , 2022, 13, .	12.8	32
10	What are housekeeping genes?. <i>PLoS Computational Biology</i> , 2022, 18, e1010295.	3.2	24
11	Deciphering cell-cell interactions and communication from gene expression. <i>Nature Reviews Genetics</i> , 2021, 22, 71-88.	16.3	575
12	Systematically gap-filling the genome-scale metabolic model of CHO cells. <i>Biotechnology Letters</i> , 2021, 43, 73-87.	2.2	10
13	In situ detection of protein interactions for recombinant therapeutic enzymes. <i>Biotechnology and Bioengineering</i> , 2021, 118, 890-904.	3.3	1
14	Big-Data Glycomics: Tools to Connect Glycan Biosynthesis to Extracellular Communication. <i>Trends in Biochemical Sciences</i> , 2021, 46, 284-300.	7.5	34
15	Coordinate regulation of systemic and kidney tryptophan metabolism by the drug transporters OAT1 and OAT3. <i>Journal of Biological Chemistry</i> , 2021, 296, 100575.	3.4	25
16	A Systems View of the Heparan Sulfate Interactome. <i>Journal of Histochemistry and Cytochemistry</i> , 2021, 69, 105-119.	2.5	44
17	The lytic polysaccharide monooxygenase CbpD promotes <i>Pseudomonas aeruginosa</i> virulence in systemic infection. <i>Nature Communications</i> , 2021, 12, 1230.	12.8	57
18	A genome-scale metabolic network model and machine learning predict amino acid concentrations in Chinese Hamster Ovary cell cultures. <i>Biotechnology and Bioengineering</i> , 2021, 118, 2118-2123.	3.3	37

#	ARTICLE	IF	CITATIONS
19	Genome-wide screens uncover KDM2B as a modifier of protein binding to heparan sulfate. <i>Nature Chemical Biology</i> , 2021, 17, 684-692.	8.0	14
20	From omics to cellular mechanisms in mammalian cell factory development. <i>Current Opinion in Chemical Engineering</i> , 2021, 32, 100688.	7.8	5
21	Systems glycobiology for discovering drug targets, biomarkers, and rational designs for glyco-immunotherapy. <i>Journal of Biomedical Science</i> , 2021, 28, 50.	7.0	5
22	A Chinese hamster transcription start site atlas that enables targeted editing of CHO cells. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab061.	3.2	7
23	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes. <i>Metabolic Engineering</i> , 2021, 66, 114-122.	7.0	17
24	An integrated modular framework for modeling the effect of ammonium on the sialylation process of monoclonal antibodies produced by CHO cells. <i>Biotechnology Journal</i> , 2021, 16, e2100019.	3.5	7
25	Model-based assessment of mammalian cell metabolic functionalities using omics data. <i>Cell Reports Methods</i> , 2021, 1, 100040.	2.9	25
26	Systematic evaluation of parameters for genome-scale metabolic models of cultured mammalian cells. <i>Metabolic Engineering</i> , 2021, 66, 21-30.	7.0	16
27	A unique esophageal extracellular matrix proteome alters normal fibroblast function in severe eosinophilic esophagitis. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 486-494.	2.9	14
28	Correcting for sparsity and interdependence in glycomics by accounting for glycan biosynthesis. <i>Nature Communications</i> , 2021, 12, 4988.	12.8	22
29	An optimized genome-wide, virus-free CRISPR screen for mammalian cells. <i>Cell Reports Methods</i> , 2021, 1, 100062.	2.9	14
30	Immune response to intravenous immunoglobulin in patients with Kawasaki disease and MIS-C. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	31
31	Atypical genomic cortical patterning in autism with poor early language outcome. <i>Science Advances</i> , 2021, 7, eabh1663.	10.3	21
32	Synergisms of machine learning and constraint-based modeling of metabolism for analysis and optimization of fermentation parameters. <i>Biotechnology Journal</i> , 2021, 16, e2100212.	3.5	18
33	Endothelial Heparan Sulfate Mediates Hepatic Neutrophil Trafficking and Injury during <i>Staphylococcus aureus</i> Sepsis. <i>MBio</i> , 2021, 12, e0118121.	4.1	8
34	Dysregulation of the secretory pathway connects Alzheimer's disease genetics to aggregate formation. <i>Cell Systems</i> , 2021, 12, 873-884.e4.	6.2	11
35	Multiple freeze-thaw cycles lead to a loss of consistency in poly(A)-enriched RNA sequencing. <i>BMC Genomics</i> , 2021, 22, 69.	2.8	12
36	Type 2 Immunity and Age Modify Gene Expression of Coronavirus-induced Disease 2019 Receptors in Eosinophilic Gastrointestinal Disorders. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2021, 72, 718-722.	1.8	12

#	ARTICLE	IF	CITATIONS
37	Awakening dormant glycosyltransferases in CHO cells with CRISPRa. <i>Biotechnology and Bioengineering</i> , 2020, 117, 593-598.	3.3	27
38	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. <i>Nature Communications</i> , 2020, 11, 68.	12.8	74
39	Ptpn6 inhibits caspase-8- and Ripk3/Mlkl-dependent inflammation. <i>Nature Immunology</i> , 2020, 21, 54-64.	14.5	33
40	Virus-Receptor Interactions of Glycosylated SARS-CoV-2 Spike and Human ACE2 Receptor. <i>Cell Host and Microbe</i> , 2020, 28, 586-601.e6.	11.0	334
41	Increased Production of LIGHT by T Cells in Eosinophilic Esophagitis Promotes Differentiation of Esophageal Fibroblasts Toward an Inflammatory Phenotype. <i>Gastroenterology</i> , 2020, 159, 1778-1792.e13.	1.3	29
42	A consensus-based and readable extension of <i>LiCoRR</i> for reaction rules (LiCoRR). <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 2645-2662.	2.2	14
43	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. <i>PLoS Computational Biology</i> , 2020, 16, e1007764.	3.2	20
44	A metabolic network-based approach for developing feeding strategies for CHO cells to increase monoclonal antibody production. <i>Bioprocess and Biosystems Engineering</i> , 2020, 43, 1381-1389.	3.4	36
45	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
46	MEMOTE for standardized genome-scale metabolic model testing. <i>Nature Biotechnology</i> , 2020, 38, 272-276.	17.5	314
47	A Markov model of glycosylation elucidates isozyme specificity and glycosyltransferase interactions for glycoengineering. <i>Current Research in Biotechnology</i> , 2020, 2, 22-36.	3.7	17
48	ZNF263 is a transcriptional regulator of heparin and heparan sulfate biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9311-9317.	7.1	30
49	Prenatal Origins of ASD: The When, What, and How of ASD Development. <i>Trends in Neurosciences</i> , 2020, 43, 326-342.	8.6	100
50	Multiplex secretome engineering enhances recombinant protein production and purity. <i>Nature Communications</i> , 2020, 11, 1908.	12.8	63
51	Dietary serine-microbiota interaction enhances chemotherapeutic toxicity without altering drug conversion. <i>Nature Communications</i> , 2020, 11, 2587.	12.8	37
52	CHOmics: A web-based tool for multi-omics data analysis and interactive visualization in CHO cell lines. <i>PLoS Computational Biology</i> , 2020, 16, e1008498.	3.2	4
53	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0
54	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0

#	ARTICLE	IF	CITATIONS
55	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0
56	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0
57	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0
58	StanDep: Capturing transcriptomic variability improves context-specific metabolic models. , 2020, 16, e1007764.		0
59	Title is missing!. , 2020, 16, e1008498.		0
60	Title is missing!. , 2020, 16, e1008498.		0
61	Title is missing!. , 2020, 16, e1008498.		0
62	Title is missing!. , 2020, 16, e1008498.		0
63	Title is missing!. , 2020, 16, e1008498.		0
64	Title is missing!. , 2020, 16, e1008498.		0
65	The ASD Living Biology: from cell proliferation to clinical phenotype. <i>Molecular Psychiatry</i> , 2019, 24, 88-107.	7.9	210
66	Assessing key decisions for transcriptomic data integration in biochemical networks. <i>PLoS Computational Biology</i> , 2019, 15, e1007185.	3.2	52
67	Proteomic atlas of organ vasculopathies triggered by <i>Staphylococcus aureus</i> sepsis. <i>Nature Communications</i> , 2019, 10, 4656.	12.8	46
68	Increased mAb production in amplified CHO cell lines is associated with increased interaction of CREB1 with transgene promoter. <i>Current Research in Biotechnology</i> , 2019, 1, 49-57.	3.7	12
69	Dual RNA-seq identifies human mucosal immunity protein Mucin-13 as a hallmark of <i>Plasmodium</i> exoerythrocytic infection. <i>Nature Communications</i> , 2019, 10, 488.	12.8	45
70	Increasing consensus of context-specific metabolic models by integrating data-inferred cell functions. <i>PLoS Computational Biology</i> , 2019, 15, e1006867.	3.2	61
71	Combating viral contaminants in CHO cells by engineering innate immunity. <i>Scientific Reports</i> , 2019, 9, 8827.	3.3	13
72	Proteogenomic Annotation of Chinese Hamsters Reveals Extensive Novel Translation Events and Endogenous Retroviral Elements. <i>Journal of Proteome Research</i> , 2019, 18, 2433-2445.	3.7	15

#	ARTICLE	IF	CITATIONS
73	Reduced apoptosis in Chinese hamster ovary cells via optimized CRISPR interference. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1813-1819.	3.3	39
74	Mitigating Clonal Variation in Recombinant Mammalian Cell Lines. <i>Trends in Biotechnology</i> , 2019, 37, 931-942.	9.3	41
75	A Multiscale Map of the Stem Cell State in Pancreatic Adenocarcinoma. <i>Cell</i> , 2019, 177, 572-586.e22.	28.9	107
76	From genotype to phenotype: augmenting deep learning with networks and systems biology. <i>Current Opinion in Systems Biology</i> , 2019, 15, 68-73.	2.6	27
77	Systematic Evaluation of Site-Specific Recombinant Gene Expression for Programmable Mammalian Cell Engineering. <i>ACS Synthetic Biology</i> , 2019, 8, 758-774.	3.8	32
78	Creation and analysis of biochemical constraint-based models using the COBRA Toolbox v.3.0. <i>Nature Protocols</i> , 2019, 14, 639-702.	12.0	833
79	A perturbed gene network containing PI3K, AKT, RAS, ERK and WNT/β-catenin pathways in leukocytes is linked to ASD genetics and symptom severity. <i>Nature Neuroscience</i> , 2019, 22, 1624-1634.	14.8	71
80	A reference genome of the Chinese hamster based on a hybrid assembly strategy. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2087-2100.	3.3	95
81	Human milk oligosaccharide composition predicts risk of necrotising enterocolitis in preterm infants. <i>Gut</i> , 2018, 67, 1064-1070.	12.1	193
82	The emerging role of systems biology for engineering protein production in CHO cells. <i>Current Opinion in Biotechnology</i> , 2018, 51, 64-69.	6.6	67
83	Large-scale associations between the leukocyte transcriptome and BOLD responses to speech differ in autism early language outcome subtypes. <i>Nature Neuroscience</i> , 2018, 21, 1680-1688.	14.8	69
84	Revealing Key Determinants of Clonal Variation in Transgene Expression in Recombinant CHO Cells Using Targeted Genome Editing. <i>ACS Synthetic Biology</i> , 2018, 7, 2867-2878.	3.8	39
85	Characterizing posttranslational modifications in prokaryotic metabolism using a multiscale workflow. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11096-11101.	7.1	44
86	Modeling Meets Metabolomics—The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism <i>Caenorhabditis elegans</i> . <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 96.	3.5	40
87	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
88	An enhanced CRISPR repressor for targeted mammalian gene regulation. <i>Nature Methods</i> , 2018, 15, 611-616.	19.0	361
89	Functional interrogation of Plasmodium genus metabolism identifies species- and stage-specific differences in nutrient essentiality and drug targeting. <i>PLoS Computational Biology</i> , 2018, 14, e1005895.	3.2	24
90	Can we capture an accurate view of tissue metabolism from an expression profile?. <i>FASEB Journal</i> , 2018, 32, .	0.5	0

#	ARTICLE	IF	CITATIONS
91	A novel systems-level approach to unravel the regulation and biosynthetic steps of glycosylation. <i>FASEB Journal</i> , 2018, 32, 544.23.	0.5	0
92	Encoding and Estimating the Remarkable Diversity of Possible Sialyltrisaccharides in Nature. <i>FASEB Journal</i> , 2018, 32, 673.22.	0.5	0
93	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein synthesis and secretion. <i>FASEB Journal</i> , 2018, 32, 526.18.	0.5	0
94	Ribosome profiling-guided depletion of an mRNA increases cell growth rate and protein secretion. <i>Scientific Reports</i> , 2017, 7, 40388.	3.3	48
95	Whole-Genome Sequencing of Invasion-Resistant Cells Identifies Laminin $\beta 2$ as a Host Factor for Bacterial Invasion. <i>MBio</i> , 2017, 8, .	4.1	36
96	A Systematic Evaluation of Methods for Tailoring Genome-Scale Metabolic Models. <i>Cell Systems</i> , 2017, 4, 318-329.e6.	6.2	178
97	Improvements in protein production in mammalian cells from targeted metabolic engineering. <i>Current Opinion in Systems Biology</i> , 2017, 6, 1-6.	2.6	34
98	Combinatorial CRISPR-Cas9 screens for de novo mapping of genetic interactions. <i>Nature Methods</i> , 2017, 14, 573-576.	19.0	287
99	PinAPL-Py: A comprehensive web-application for the analysis of CRISPR/Cas9 screens. <i>Scientific Reports</i> , 2017, 7, 15854.	3.3	75
100	Hierarchical cortical transcriptome disorganization in autism. <i>Molecular Autism</i> , 2017, 8, 29.	4.9	24
101	Predictive glycoengineering of biosimilars using a Markov chain glycosylation model. <i>Biotechnology Journal</i> , 2017, 12, 1600489.	3.5	28
102	The Emerging Facets of Non-Cancerous Warburg Effect. <i>Frontiers in Endocrinology</i> , 2017, 8, 279.	3.5	59
103	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. <i>Cell Systems</i> , 2016, 3, 434-443.e8.	6.2	205
104	Recon 2.2: from reconstruction to model of human metabolism. <i>Metabolomics</i> , 2016, 12, 109.	3.0	243
105	Modulating carbohydrate-protein interactions through glycoengineering of monoclonal antibodies to impact cancer physiology. <i>Current Opinion in Structural Biology</i> , 2016, 40, 104-111.	5.7	21
106	Novel personalized pathway-based metabolomics models reveal key metabolic pathways for breast cancer diagnosis. <i>Genome Medicine</i> , 2016, 8, 34.	8.2	122
107	Quantitative feature extraction from the Chinese hamster ovary bioprocess bibliome using a novel meta-analysis workflow. <i>Biotechnology Advances</i> , 2016, 34, 621-633.	11.7	40
108	A Markov chain model for N-linked protein glycosylation towards a low-parameter tool for model-driven glycoengineering. <i>Metabolic Engineering</i> , 2016, 33, 52-66.	7.0	86

#	ARTICLE	IF	CITATIONS
109	BiGG Models: A platform for integrating, standardizing and sharing genome-scale models. <i>Nucleic Acids Research</i> , 2016, 44, D515-D522.	14.5	746
110	CRISPR/Cas9-mediated genome engineering of CHO cell factories: Application and perspectives. <i>Biotechnology Journal</i> , 2015, 10, 979-994.	3.5	104
111	Systems analysis of host-parasite interactions. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2015, 7, 381-400.	6.6	55
112	Do genome-scale models need exact solvers or clearer standards?. <i>Molecular Systems Biology</i> , 2015, 11, 831.	7.2	68
113	Cell cycle networks link gene expression dysregulation, mutation, and brain maldevelopment in autistic toddlers. <i>Molecular Systems Biology</i> , 2015, 11, 841.	7.2	78
114	A novel low-parameter computational model to aid in-silico glycoengineering. <i>BMC Proceedings</i> , 2015, 9, .	1.6	0
115	Optimizing eukaryotic cell hosts for protein production through systems biotechnology and genome-scale modeling. <i>Biotechnology Journal</i> , 2015, 10, 939-949.	3.5	46
116	Escher: A Web Application for Building, Sharing, and Embedding Data-Rich Visualizations of Biological Pathways. <i>PLoS Computational Biology</i> , 2015, 11, e1004321.	3.2	344
117	Elucidation of the CHO Super-Ome (CHO-SO) by Proteoinformatics. <i>Journal of Proteome Research</i> , 2015, 14, 4687-4703.	3.7	35
118	JSBML 1.0: providing a smorgasbord of options to encode systems biology models. <i>Bioinformatics</i> , 2015, 31, 3383-3386.	4.1	37
119	Multi-Tissue Computational Modeling Analyzes Pathophysiology of Type 2 Diabetes in MKR Mice. <i>PLoS ONE</i> , 2014, 9, e102319.	2.5	15
120	From random mutagenesis to systems biology in metabolic engineering of mammalian cells. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 355-358.	0.8	10
121	Rapid neurogenesis through transcriptional activation in human stem cells. <i>Molecular Systems Biology</i> , 2014, 10, 760.	7.2	187
122	Minimal metabolic pathway structure is consistent with associated biomolecular interactions. <i>Molecular Systems Biology</i> , 2014, 10, 737.	7.2	41
123	The role of replicates for error mitigation in next-generation sequencing. <i>Nature Reviews Genetics</i> , 2014, 15, 56-62.	16.3	267
124	Systems glycobiology for glycoengineering. <i>Current Opinion in Biotechnology</i> , 2014, 30, 218-224.	6.6	47
125	Genomic landscapes of Chinese hamster ovary cell lines as revealed by the <i>Cricetulus griseus</i> draft genome. <i>Nature Biotechnology</i> , 2013, 31, 759-765.	17.5	340
126	Reconstruction of Genome-Scale Metabolic Networks. , 2013, , 229-250.		1



#	ARTICLE	IF	CITATIONS
127	The emerging CHO systems biology era: harnessing the omics revolution for biotechnology. <i>Current Opinion in Biotechnology</i> , 2013, 24, 1102-1107.	6.6	159
128	Analysis of omics data with genome-scale models of metabolism. <i>Molecular BioSystems</i> , 2013, 9, 167-174.	2.9	176
129	The evolution of genome-scale models of cancer metabolism. <i>Frontiers in Physiology</i> , 2013, 4, 237.	2.8	79
130	Proteomic Analysis of Chinese Hamster Ovary Cells. <i>Journal of Proteome Research</i> , 2012, 11, 5265-5276.	3.7	168
131	Constraining the metabolic genotype-phenotype relationship using a phylogeny of in silico methods. <i>Nature Reviews Microbiology</i> , 2012, 10, 291-305.	28.6	721
132	Network Context and Selection in the Evolution to Enzyme Specificity. <i>Science</i> , 2012, 337, 1101-1104.	12.6	249
133	In silico method for modelling metabolism and gene product expression at genome scale. <i>Nature Communications</i> , 2012, 3, 929.	12.8	238
134	A proof for loop-law constraints in stoichiometric metabolic networks. <i>BMC Systems Biology</i> , 2012, 6, 140.	3.0	21
135	Elimination of Thermodynamically Infeasible Loops in Steady-State Metabolic Models. <i>Biophysical Journal</i> , 2011, 100, 544-553.	0.5	203
136	Microbial laboratory evolution in the era of genome-scale science. <i>Molecular Systems Biology</i> , 2011, 7, 509.	7.2	245
137	Quantitative prediction of cellular metabolism with constraint-based models: the COBRA Toolbox v2.0. <i>Nature Protocols</i> , 2011, 6, 1290-1307.	12.0	1,408
138	The genomic sequence of the Chinese hamster ovary (CHO)-K1 cell line. <i>Nature Biotechnology</i> , 2011, 29, 735-741.	17.5	699
139	The role of cellular objectives and selective pressures in metabolic pathway evolution. <i>Current Opinion in Biotechnology</i> , 2011, 22, 595-600.	6.6	31
140	Insight into human alveolar macrophage and <i>M. tuberculosis</i> interactions via metabolic reconstructions. <i>Molecular Systems Biology</i> , 2010, 6, 422.	7.2	246
141	Large-scale in silico modeling of metabolic interactions between cell types in the human brain. <i>Nature Biotechnology</i> , 2010, 28, 1279-1285.	17.5	246
142	RNA polymerase mutants found through adaptive evolution reprogram <i>Escherichia coli</i> for optimal growth in minimal media. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20500-20505.	7.1	219
143	Omic data from evolved <i>E. coli</i> are consistent with computed optimal growth from genome-scale models. <i>Molecular Systems Biology</i> , 2010, 6, 390.	7.2	615
144	Deletion of Genes Encoding Cytochrome Oxidases and Quinol Monooxygenase Blocks the Aerobic-Anaerobic Shift in <i>Escherichia coli</i> K-12 MG1655. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6529-6540.	3.1	49

#	ARTICLE	IF	CITATIONS
145	Design and analysis of synthetic carbon fixation pathways. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8889-8894.	7.1	402
146	Gene Expression Profiling and the Use of Genome-Scale In Silico Models of <i>Escherichia coli</i> for Analysis: Providing Context for Content. Journal of Bacteriology, 2009, 191, 3437-3444.	2.2	51
147	Metabolic Systems Biology. , 2009, , 5535-5552.		6
148	Systemic Post-Translational Control of Bacterial Metabolism Regulates Adaptation in Dynamic Environments. SSRN Electronic Journal, 0, , .	0.4	0