

Jack Jack T Pronk

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L-index

#	Paper	IF	Citations
263	The Ehrlich pathway for fusel alcohol production: a century of research on <i>Saccharomyces cerevisiae</i> metabolism. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2259-66	4.8	873
262	Pyruvate metabolism in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 1996 , 12, 1607-33	3.4	537
261	Genome sequencing and analysis of the filamentous fungus <i>Penicillium chrysogenum</i> . <i>Nature Biotechnology</i> , 2008 , 26, 1161-8	44.5	374
260	Alcoholic fermentation of carbon sources in biomass hydrolysates by <i>Saccharomyces cerevisiae</i> : current status. <i>Antonie Van Leeuwenhoek</i> , 2006 , 90, 391-418	2.1	354
259	Microbial export of lactic and 3-hydroxypropanoic acid: implications for industrial fermentation processes. <i>Metabolic Engineering</i> , 2004 , 6, 245-55	9.7	347
258	Stoichiometry and compartmentation of NADH metabolism in <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Reviews</i> , 2001 , 25, 15-37	15.1	346
257	Homofermentative lactate production cannot sustain anaerobic growth of engineered <i>Saccharomyces cerevisiae</i> : possible consequence of energy-dependent lactate export. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 2898-905	4.8	308
256	Metabolic engineering of a xylose-isomerase-expressing <i>Saccharomyces cerevisiae</i> strain for rapid anaerobic xylose fermentation. <i>FEMS Yeast Research</i> , 2005 , 5, 399-409	3.1	303
255	Malic acid production by <i>Saccharomyces cerevisiae</i> : engineering of pyruvate carboxylation, oxaloacetate reduction, and malate export. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2766-77	4.8	277
254	Evolutionary engineering of mixed-sugar utilization by a xylose-fermenting <i>Saccharomyces cerevisiae</i> strain. <i>FEMS Yeast Research</i> , 2005 , 5, 925-34	3.1	266
253	CRISPR/Cas9: a molecular Swiss army knife for simultaneous introduction of multiple genetic modifications in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2015 , 15,	3.1	264
252	High-level functional expression of a fungal xylose isomerase: the key to efficient ethanolic fermentation of xylose by <i>Saccharomyces cerevisiae</i> ?. <i>FEMS Yeast Research</i> , 2003 , 4, 69-78	3.1	264
251	The genome-wide transcriptional responses of <i>Saccharomyces cerevisiae</i> grown on glucose in aerobic chemostat cultures limited for carbon, nitrogen, phosphorus, or sulfur. <i>Journal of Biological Chemistry</i> , 2003 , 278, 3265-74	5.4	256
250	De novo production of the flavonoid naringenin in engineered <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2012 , 11, 155	6.4	235
249	Metabolic engineering of yeast for production of fuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2013 , 24, 398-404	11.4	231
248	Novel evolutionary engineering approach for accelerated utilization of glucose, xylose, and arabinose mixtures by engineered <i>Saccharomyces cerevisiae</i> strains. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 907-14	4.8	215
247	The <i>Saccharomyces cerevisiae</i> NDE1 and NDE2 genes encode separate mitochondrial NADH dehydrogenases catalyzing the oxidation of cytosolic NADH. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24529-34	5.4	213

246	Role of transcriptional regulation in controlling fluxes in central carbon metabolism of <i>Saccharomyces cerevisiae</i> . A chemostat culture study. <i>Journal of Biological Chemistry</i> , 2004 , 279, 9125-38 ^{5.4}	207
245	Effect of specific growth rate on fermentative capacity of baker's yeast. <i>Applied and Environmental Microbiology</i> , 1998 , 64, 4226-33	4.8 206
244	High-cell-density fed-batch cultivation of the docosahexaenoic acid producing marine alga <i>Cryptothecodinium cohnii</i> . <i>Biotechnology and Bioengineering</i> , 2003 , 81, 666-72	4.9 195
243	The fluxes through glycolytic enzymes in <i>Saccharomyces cerevisiae</i> are predominantly regulated at posttranscriptional levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 15753-8	11.5 192
242	Auxotrophic yeast strains in fundamental and applied research. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2095-100	4.8 192
241	Reproducibility of oligonucleotide microarray transcriptome analyses. An interlaboratory comparison using chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 37001-8	5.4 191
240	Minimal metabolic engineering of <i>Saccharomyces cerevisiae</i> for efficient anaerobic xylose fermentation: a proof of principle. <i>FEMS Yeast Research</i> , 2004 , 4, 655-64	3.1 189
239	De novo sequencing, assembly and analysis of the genome of the laboratory strain <i>Saccharomyces cerevisiae</i> CEN.PK113-7D, a model for modern industrial biotechnology. <i>Microbial Cell Factories</i> , 2012 , 11, 36	6.4 183
238	Pyruvate decarboxylase: An indispensable enzyme for growth of <i>Saccharomyces cerevisiae</i> on glucose 1996 , 12, 247-257	183
237	The two acetyl-coenzyme A synthetases of <i>Saccharomyces cerevisiae</i> differ with respect to kinetic properties and transcriptional regulation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 28953-9	5.4 175
236	Engineering of <i>Saccharomyces cerevisiae</i> for efficient anaerobic alcoholic fermentation of L-arabinose. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 4881-91	4.8 172
235	Directed evolution of pyruvate decarboxylase-negative <i>Saccharomyces cerevisiae</i> , yielding a C2-independent, glucose-tolerant, and pyruvate-hyperproducing yeast. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 159-66	4.8 169
234	Glucose uptake kinetics and transcription of HXT genes in chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1999 , 274, 15350-9	5.4 159
233	Kinetics of growth and sugar consumption in yeasts. <i>Antonie Van Leeuwenhoek</i> , 1993 , 63, 343-52	2.1 153
232	Identification and characterization of phenylpyruvate decarboxylase genes in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 4534-41	4.8 147
231	Regulation of carbon metabolism in chemostat cultures of <i>Saccharomyces cerevisiae</i> grown on mixtures of glucose and ethanol. <i>Yeast</i> , 1995 , 11, 407-18	3.4 133
230	The mitochondrial alcohol dehydrogenase Adh3p is involved in a redox shuttle in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bacteriology</i> , 2000 , 182, 4730-7	3.5 131
229	Identification and characterization of MAE1, the <i>Saccharomyces cerevisiae</i> structural gene encoding mitochondrial malic enzyme. <i>Journal of Bacteriology</i> , 1998 , 180, 2875-82	3.5 122

228	Elimination of glycerol production in anaerobic cultures of a <i>Saccharomyces cerevisiae</i> strain engineered to use acetic acid as an electron acceptor. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 190-5	4.8	121
227	Two-dimensional transcriptome analysis in chemostat cultures. Combinatorial effects of oxygen availability and macronutrient limitation in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 437-47	5.4	117
226	Development of efficient xylose fermentation in <i>Saccharomyces cerevisiae</i> : xylose isomerase as a key component. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2007 , 108, 179-204	1.7	115
225	Metabolic engineering of <i>Saccharomyces cerevisiae</i> for production of carboxylic acids: current status and challenges. <i>FEMS Yeast Research</i> , 2009 , 9, 1123-36	3.1	112
224	In vivo analysis of the mechanisms for oxidation of cytosolic NADH by <i>Saccharomyces cerevisiae</i> mitochondria. <i>Journal of Bacteriology</i> , 2000 , 182, 2823-30	3.5	112
223	<i>Saccharomyces cerevisiae</i> strains for second-generation ethanol production: from academic exploration to industrial implementation. <i>FEMS Yeast Research</i> , 2017 , 17,	3.1	108
222	amdSYM, a new dominant recyclable marker cassette for <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2013 , 13, 126-39	3.1	106
221	Proteome analysis of yeast response to various nutrient limitations. <i>Molecular Systems Biology</i> , 2006 , 2, 2006.0026	12.2	103
220	The <i>Saccharomyces cerevisiae</i> ICL2 gene encodes a mitochondrial 2-methylisocitrate lyase involved in propionyl-coenzyme A metabolism. <i>Journal of Bacteriology</i> , 2000 , 182, 7007-13	3.5	103
219	Xylose metabolism in the anaerobic fungus <i>Piromyces</i> sp. strain E2 follows the bacterial pathway. <i>Archives of Microbiology</i> , 2003 , 180, 134-41	3	101
218	Effects of acetic acid on the kinetics of xylose fermentation by an engineered, xylose-isomerase-based <i>Saccharomyces cerevisiae</i> strain. <i>FEMS Yeast Research</i> , 2009 , 9, 358-64	3.1	100
217	Quantitative proteomics and transcriptomics of anaerobic and aerobic yeast cultures reveals post-transcriptional regulation of key cellular processes. <i>Microbiology (United Kingdom)</i> , 2007 , 153, 3864-3878	2.9	99
216	Regulation of fermentative capacity and levels of glycolytic enzymes in chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Enzyme and Microbial Technology</i> , 2000 , 26, 724-736	3.8	99
215	Physiological characterization of the ARO10-dependent, broad-substrate-specificity 2-oxo acid decarboxylase activity of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2005 , 71, 3276-84	4.8	97
214	Carbon dioxide fixation by Calvin-Cycle enzymes improves ethanol yield in yeast. <i>Biotechnology for Biofuels</i> , 2013 , 6, 125	7.8	93
213	Acclimation of <i>Saccharomyces cerevisiae</i> to low temperature: a chemostat-based transcriptome analysis. <i>Molecular Biology of the Cell</i> , 2007 , 18, 5100-12	3.5	93
212	A new laboratory evolution approach to select for constitutive acetic acid tolerance in <i>Saccharomyces cerevisiae</i> and identification of causal mutations. <i>Biotechnology for Biofuels</i> , 2016 , 9, 173	7.8	88
211	Under pressure: evolutionary engineering of yeast strains for improved performance in fuels and chemicals production. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 47-56	11.4	88

210	Prolonged selection in aerobic, glucose-limited chemostat cultures of <i>Saccharomyces cerevisiae</i> causes a partial loss of glycolytic capacity. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 1657-1669	2.9	87
209	Growth requirements of pyruvate-decarboxylase-negative <i>Saccharomyces cerevisiae</i> . <i>FEMS Microbiology Letters</i> , 1999 , 174, 73-9	2.9	87
208	Regulation of alcoholic fermentation in batch and chemostat cultures of <i>Kluyveromyces lactis</i> CBS 2359. <i>Yeast</i> , 1998 , 14, 459-69	3.4	86
207	Oxidation and Reduction of Iron by Acidophilic Bacteria. <i>Geomicrobiology Journal</i> , 1992 , 10, 153-171	2.5	86
206	Metabolic engineering of glycerol production in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2002 , 68, 2814-21	4.8	84
205	Replacement of the <i>Saccharomyces cerevisiae</i> acetyl-CoA synthetases by alternative pathways for cytosolic acetyl-CoA synthesis. <i>Metabolic Engineering</i> , 2014 , 21, 46-59	9.7	82
204	Engineering cytosolic acetyl-coenzyme A supply in <i>Saccharomyces cerevisiae</i> : Pathway stoichiometry, free-energy conservation and redox-cofactor balancing. <i>Metabolic Engineering</i> , 2016 , 36, 99-115	9.7	81
203	Fermentative capacity in high-cell-density fed-batch cultures of baker's yeast. <i>Biotechnology and Bioengineering</i> , 2000 , 68, 517-523	4.9	81
202	<i>S. cerevisiae</i> × <i>S. eubayanus</i> interspecific hybrid, the best of both worlds and beyond. <i>FEMS Yeast Research</i> , 2015 , 15,	3.1	79
201	Increasing ATP conservation in maltose consuming yeast, a challenge for industrial organic acid production in non-aerated reactors. <i>BMC Proceedings</i> , 2014 , 8, P185	2.3	78
200	Resolving Phenylalanine Metabolism Sheds Light on Natural Synthesis of Penicillin G in <i>Penicillium chrysogenum</i> . <i>Eukaryotic Cell</i> , 2013 , 12, 151-151		78
199	Quantitative physiology of <i>Saccharomyces cerevisiae</i> at near-zero specific growth rates. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5607-14	4.8	78
198	Integrated multilaboratory systems biology reveals differences in protein metabolism between two reference yeast strains. <i>Nature Communications</i> , 2010 , 1, 145	17.4	78
197	Generic and specific transcriptional responses to different weak organic acids in anaerobic chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2007 , 7, 819-33	3.1	76
196	Polycistronic expression of a β -carotene biosynthetic pathway in <i>Saccharomyces cerevisiae</i> coupled to β -ionone production. <i>Journal of Biotechnology</i> , 2014 , 192 Pt B, 383-92	3.7	75
195	A versatile, efficient strategy for assembly of multi-fragment expression vectors in <i>Saccharomyces cerevisiae</i> using 60 bp synthetic recombination sequences. <i>Microbial Cell Factories</i> , 2013 , 12, 47	6.4	74
194	Engineering topology and kinetics of sucrose metabolism in <i>Saccharomyces cerevisiae</i> for improved ethanol yield. <i>Metabolic Engineering</i> , 2011 , 13, 694-703	9.7	74
193	Genome duplication and mutations in ACE2 cause multicellular, fast-sedimenting phenotypes in evolved <i>Saccharomyces cerevisiae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E4223-31	11.5	71

192	Batch and continuous culture-based selection strategies for acetic acid tolerance in xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2011 , 11, 299-306	3.1	71
191	Engineering acetyl coenzyme A supply: functional expression of a bacterial pyruvate dehydrogenase complex in the cytosol of <i>Saccharomyces cerevisiae</i> . <i>MBio</i> , 2014 , 5, e01696-14	7.8	70
190	Effects of growth conditions on mitochondrial morphology in <i>Saccharomyces cerevisiae</i> . <i>Antonie Van Leeuwenhoek</i> , 1995 , 67, 243-53	2.1	69
189	High-level expression of <i>Plasmodium vivax</i> apical membrane antigen 1 (AMA-1) in <i>Pichia pastoris</i> : strong immunogenicity in <i>Macaca mulatta</i> immunized with <i>P. vivax</i> AMA-1 and adjuvant SBAS2. <i>Infection and Immunity</i> , 1999 , 67, 43-9	3.7	69
188	Substrate specificity of thiamine pyrophosphate-dependent 2-oxo-acid decarboxylases in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2012 , 78, 7538-48	4.8	68
187	Physiological and transcriptional responses to high concentrations of lactic acid in anaerobic chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5759-68	4.8	68
186	Metabolome, transcriptome and metabolic flux analysis of arabinose fermentation by engineered <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2010 , 12, 537-51	9.7	66
185	Glucose metabolism and gluconic acid production by <i>Acetobacter diazotrophicus</i> . <i>Journal of Bioscience and Bioengineering</i> , 1991 , 72, 101-105		66
184	An internal deletion in MTH1 enables growth on glucose of pyruvate-decarboxylase negative, non-fermentative <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2012 , 11, 131	6.4	65
183	Carbonic anhydrase (Nce103p): an essential biosynthetic enzyme for growth of <i>Saccharomyces cerevisiae</i> at atmospheric carbon dioxide pressure. <i>Biochemical Journal</i> , 2005 , 391, 311-6	3.8	65
182	Pyruvate decarboxylase: an indispensable enzyme for growth of <i>Saccharomyces cerevisiae</i> on glucose. <i>Yeast</i> , 1996 , 12, 247-57	3.4	65
181	Genome-wide analytical approaches for reverse metabolic engineering of industrially relevant phenotypes in yeast. <i>FEMS Yeast Research</i> , 2012 , 12, 183-96	3.1	64
180	Exploring and dissecting genome-wide gene expression responses of <i>Penicillium chrysogenum</i> to phenylacetic acid consumption and penicillinG production. <i>BMC Genomics</i> , 2009 , 10, 75	4.5	64
179	Transcriptional responses of <i>Saccharomyces cerevisiae</i> to preferred and nonpreferred nitrogen sources in glucose-limited chemostat cultures. <i>FEMS Yeast Research</i> , 2007 , 7, 604-20	3.1	64
178	Genome-scale analyses of butanol tolerance in <i>Saccharomyces cerevisiae</i> reveal an essential role of protein degradation. <i>Biotechnology for Biofuels</i> , 2013 , 6, 48	7.8	63
177	Catalase overexpression reduces lactic acid-induced oxidative stress in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2009 , 75, 2320-5	4.8	62
176	Validation of a metabolic network for <i>Saccharomyces cerevisiae</i> using mixed substrate studies. <i>Biotechnology Progress</i> , 1996 , 12, 434-48	2.8	59
175	Key process conditions for production of C(4) dicarboxylic acids in bioreactor batch cultures of an engineered <i>Saccharomyces cerevisiae</i> strain. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 744-50	4.8	57

174	Effects of pyruvate decarboxylase overproduction on flux distribution at the pyruvate branch point in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 1998 , 64, 2133-40	4.8	57
173	Energy coupling in <i>Saccharomyces cerevisiae</i> : selected opportunities for metabolic engineering. <i>FEMS Yeast Research</i> , 2012 , 12, 387-97	3.1	54
172	Metabolic flux analysis of a glycerol-overproducing <i>Saccharomyces cerevisiae</i> strain based on GC-MS, LC-MS and NMR-derived C-labelling data. <i>FEMS Yeast Research</i> , 2007 , 7, 216-31	3.1	54
171	Dynamics of glycolytic regulation during adaptation of <i>Saccharomyces cerevisiae</i> to fermentative metabolism. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 5710-23	4.8	52
170	Physiological and transcriptional responses of <i>Saccharomyces cerevisiae</i> to zinc limitation in chemostat cultures. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 7680-92	4.8	52
169	A new physiological role for Pdr12p in <i>Saccharomyces cerevisiae</i> : export of aromatic and branched-chain organic acids produced in amino acid catabolism. <i>FEMS Yeast Research</i> , 2006 , 6, 937-45	3.1	52
168	Evolutionary engineering to enhance starter culture performance in food fermentations. <i>Current Opinion in Biotechnology</i> , 2015 , 32, 1-7	11.4	51
167	Chromosomal Copy Number Variation in <i>Saccharomyces pastorianus</i> Is Evidence for Extensive Genome Dynamics in Industrial Lager Brewing Strains. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 6253-67	4.8	50
166	Pyruvate decarboxylase catalyzes decarboxylation of branched-chain 2-oxo acids but is not essential for fusel alcohol production by <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 1998 , 64, 1303-7	4.8	50
165	Increasing free-energy (ATP) conservation in maltose-grown <i>Saccharomyces cerevisiae</i> by expression of a heterologous maltose phosphorylase. <i>Metabolic Engineering</i> , 2011 , 13, 518-26	9.7	48
164	Functional analysis of structural genes for NAD(+)-dependent formate dehydrogenase in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2002 , 19, 509-20	3.4	48
163	Chemostat-based micro-array analysis in baker's yeast. <i>Advances in Microbial Physiology</i> , 2009 , 54, 257-314	11.4	47
162	Combinatorial effects of environmental parameters on transcriptional regulation in <i>Saccharomyces cerevisiae</i> : a quantitative analysis of a compendium of chemostat-based transcriptome data. <i>BMC Genomics</i> , 2009 , 10, 53	4.5	46
161	Control of the glycolytic flux in <i>Saccharomyces cerevisiae</i> grown at low temperature: a multi-level analysis in anaerobic chemostat cultures. <i>Journal of Biological Chemistry</i> , 2007 , 282, 10243-51	5.4	46
160	Physiological and genome-wide transcriptional responses of <i>Saccharomyces cerevisiae</i> to high carbon dioxide concentrations. <i>FEMS Yeast Research</i> , 2005 , 5, 579-93	3.1	46
159	Genome editing in <i>Kluyveromyces</i> and <i>Ogataea</i> yeasts using a broad-host-range Cas9/gRNA co-expression plasmid. <i>FEMS Yeast Research</i> , 2018 , 18,	3.1	45
158	Engineering of <i>Penicillium chrysogenum</i> for fermentative production of a novel carbamoylated cephem antibiotic precursor. <i>Metabolic Engineering</i> , 2009 , 11, 125-37	9.7	45
157	Laboratory evolution of new lactate transporter genes in a <i>jen1</i> mutant of <i>Saccharomyces cerevisiae</i> and their identification as ADY2 alleles by whole-genome resequencing and transcriptome analysis. <i>FEMS Yeast Research</i> , 2012 , 12, 359-374	3.1	44

156	Mutations in PMR1 stimulate xylose isomerase activity and anaerobic growth on xylose of engineered <i>Saccharomyces cerevisiae</i> by influencing manganese homeostasis. <i>Scientific Reports</i> , 2017 , 7, 46155	4.9	44
155	Prolonged maltose-limited cultivation of <i>Saccharomyces cerevisiae</i> selects for cells with improved maltose affinity and hypersensitivity. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1956-63	4.8	44
154	Transcription factor control of growth rate dependent genes in <i>Saccharomyces cerevisiae</i> : a three factor design. <i>BMC Genomics</i> , 2008 , 9, 341	4.5	43
153	One-step assembly and targeted integration of multigene constructs assisted by the I-SceI meganuclease in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2013 , 13, 769-81	3.1	42
152	Physiological and genetic engineering of cytosolic redox metabolism in <i>Saccharomyces cerevisiae</i> for improved glycerol production. <i>Metabolic Engineering</i> , 2006 , 8, 532-42	9.7	42
151	Comparative genotyping of the <i>Saccharomyces cerevisiae</i> laboratory strains S288C and CEN.PK113-7D using oligonucleotide microarrays. <i>FEMS Yeast Research</i> , 2003 , 4, 259-69	3.1	42
150	Oxidation of reduced sulphur compounds by intact cells of <i>Thiobacillus acidophilus</i> . <i>Archives of Microbiology</i> , 1992 , 157, 161-168	3	42
149	Enzymic analysis of NADPH metabolism in beta-lactam-producing <i>Penicillium chrysogenum</i> : presence of a mitochondrial NADPH dehydrogenase. <i>Metabolic Engineering</i> , 2006 , 8, 91-101	9.7	40
148	Industrial Relevance of Chromosomal Copy Number Variation in <i>Saccharomyces</i> Yeasts. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	39
147	Exploiting combinatorial cultivation conditions to infer transcriptional regulation. <i>BMC Genomics</i> , 2007 , 8, 25	4.5	39
146	Hydrolytic activity in baker's yeast limits the yield of asymmetric 3-oxo ester reduction. <i>Biotechnology and Bioengineering</i> , 2000 , 69, 370-6	4.9	39
145	Connecting central carbon and aromatic amino acid metabolisms to improve de novo 2-phenylethanol production in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2019 , 56, 165-180	9.7	37
144	Anaplerotic role for cytosolic malic enzyme in engineered <i>Saccharomyces cerevisiae</i> strains. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 732-8	4.8	37
143	Overproduction of threonine aldolase circumvents the biosynthetic role of pyruvate decarboxylase in glucose-limited chemostat cultures of <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2003 , 69, 2094-9	4.8	37
142	Oxygen requirements of the food spoilage yeast <i>Zygosaccharomyces bailii</i> in synthetic and complex media. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 2123-8	4.8	37
141	Physiology of the fuel ethanol strain <i>Saccharomyces cerevisiae</i> PE-2 at low pH indicates a context-dependent performance relevant for industrial applications. <i>FEMS Yeast Research</i> , 2014 , 14, 1196-205	3.1	36
140	Transcriptome-based characterization of interactions between <i>Saccharomyces cerevisiae</i> and <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> in lactose-grown chemostat cocultures. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 5949-61	4.8	36
139	Cellular responses of <i>Saccharomyces cerevisiae</i> at near-zero growth rates: transcriptome analysis of anaerobic retentostat cultures. <i>FEMS Yeast Research</i> , 2011 , 11, 603-20	3.1	36

138	Phosphoenolpyruvate carboxykinase as the sole anaplerotic enzyme in <i>Saccharomyces cerevisiae</i> . <i>Applied and Environmental Microbiology</i> , 2010 , 76, 5383-9	4.8	36
137	Two mechanisms for oxidation of cytosolic NADPH by <i>Kluyveromyces lactis</i> mitochondria. <i>Yeast</i> , 2002 , 19, 813-24	3.4	36
136	Contribution of the <i>Saccharomyces cerevisiae</i> transcriptional regulator Leu3p to physiology and gene expression in nitrogen- and carbon-limited chemostat cultures. <i>FEMS Yeast Research</i> , 2005 , 5, 885-97	3.7	36
135	Involvement of vacuolar sequestration and active transport in tolerance of <i>Saccharomyces cerevisiae</i> to hop iso-alpha-acids. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 318-28	4.8	34
134	Vitamin requirements and biosynthesis in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2020 , 37, 283-304	3.4	33
133	Improving ethanol yield in acetate-reducing <i>Saccharomyces cerevisiae</i> by cofactor engineering of 6-phosphogluconate dehydrogenase and deletion of ALD6. <i>Microbial Cell Factories</i> , 2016 , 15, 67	6.4	33
132	A three-way proteomics strategy allows differential analysis of yeast mitochondrial membrane protein complexes under anaerobic and aerobic conditions. <i>Proteomics</i> , 2009 , 9, 4787-98	4.8	33
131	Laboratory evolution of new lactate transporter genes in a <i>jen1</i> mutant of <i>Saccharomyces cerevisiae</i> and their identification as ADY2 alleles by whole-genome resequencing and transcriptome analysis. <i>FEMS Yeast Research</i> , 2012 , 12, 359-374	3.1	33
130	Engineering NADH metabolism in <i>Saccharomyces cerevisiae</i> : formate as an electron donor for glycerol production by anaerobic, glucose-limited chemostat cultures. <i>FEMS Yeast Research</i> , 2006 , 6, 1193-203	3.1	33
129	The <i>Penicillium chrysogenum</i> <i>aclA</i> gene encodes a broad-substrate-specificity acyl-coenzyme A ligase involved in activation of adipic acid, a side-chain precursor for cephem antibiotics. <i>Fungal Genetics and Biology</i> , 2010 , 47, 33-42	3.9	32
128	<i>Pichia pastoris</i> Exhibits High Viability and a Low Maintenance Energy Requirement at Near-Zero Specific Growth Rates. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 4570-4583	4.8	30
127	Evolutionary engineering of a glycerol-3-phosphate dehydrogenase-negative, acetate-reducing <i>Saccharomyces cerevisiae</i> strain enables anaerobic growth at high glucose concentrations. <i>Microbial Biotechnology</i> , 2014 , 7, 44-53	6.3	30
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22	Laboratory evolution of a <i>Saccharomyces cerevisiae</i> x <i>S. eubayanus</i> hybrid under simulated lager-brewing conditions: genetic diversity and phenotypic convergence		3
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11	Regulation of pyruvate metabolism in chemostat cultures of <i>Kluyveromyces lactis</i> CBS 2359 2000 , 16, 611		2
10	Fermentative capacity in high-cell-density fed-batch cultures of baker's yeast 2000 , 68, 517		2
9	Allele-specific genome editing using CRISPR-Cas9 causes off-target mutations in diploid yeast		1
8	Growth requirements of pyruvate-decarboxylase-negative <i>Saccharomyces cerevisiae</i>		1
7	Adaptive laboratory evolution and reverse engineering of single-vitamin prototrophies in <i>Saccharomyces cerevisiae</i>		1
6	Re-oxidation of cytosolic NADH is a major contributor to the high oxygen requirements of the thermotolerant yeast <i>Ogataea parapolymorpha</i> in oxygen-limited cultures		1
5	Engineering the thermotolerant industrial yeast <i>Kluyveromyces marxianus</i> for anaerobic growth		1
4	Engineering oxygen-independent biotin biosynthesis in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2021 , 67, 88-103	9.7	1
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