

Michael Krogh Jensen

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,353
citations

136950

32
h-index

138484

58
g-index

71
all docs

71
docs citations

71
times ranked

5446
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiplex metabolic pathway engineering using CRISPR/Cas9 in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2015, 28, 213-222.	7.0	355
2	The <i>Arabidopsis thaliana</i> NAC transcription factor family: structure–function relationships and determinants of ANAC019 stress signalling. <i>Biochemical Journal</i> , 2010, 426, 183-196.	3.7	354
3	Structure, Function and Networks of Transcription Factors Involved in Abiotic Stress Responses. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5842-5878.	4.1	278
4	Transcriptional regulation by an NAC (NAM–ATAF1,2–CUC2) transcription factor attenuates ABA signalling for efficient basal defence towards <i>Blumeria graminis</i> f. sp. <i>hordei</i> in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2008, 56, 867-880.	5.7	210
5	EasyClone–MarkerFree: A vector toolkit for marker–less integration of genes into <i>Saccharomyces cerevisiae</i> via CRISPR–Cas9. <i>Biotechnology Journal</i> , 2016, 11, 1110-1117.	3.5	206
6	ATAF1 transcription factor directly regulates abscisic acid biosynthetic gene <i>NCED3</i> in <i>Arabidopsis thaliana</i> . <i>FEBS Open Bio</i> , 2013, 3, 321-327.	2.3	182
7	Engineering prokaryotic transcriptional activators as metabolite biosensors in yeast. <i>Nature Chemical Biology</i> , 2016, 12, 951-958.	8.0	182
8	CRISPR/Cas9 advances engineering of microbial cell factories. <i>Metabolic Engineering</i> , 2016, 34, 44-59.	7.0	179
9	Development of biosensors and their application in metabolic engineering. <i>Current Opinion in Chemical Biology</i> , 2015, 28, 1-8.	6.1	149
10	CasEMBLR: Cas9-Facilitated Multiloci Genomic Integration of <i>in Vivo</i> Assembled DNA Parts in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2015, 4, 1226-1234.	3.8	148
11	Combining mechanistic and machine learning models for predictive engineering and optimization of tryptophan metabolism. <i>Nature Communications</i> , 2020, 11, 4880.	12.8	137
12	The HvNAC6 transcription factor: a positive regulator of penetration resistance in barley and <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2007, 65, 137-150.	3.9	136
13	CrEdit: CRISPR mediated multi-loci gene integration in <i>Saccharomyces cerevisiae</i> . <i>Microbial Cell Factories</i> , 2015, 14, 97.	4.0	134
14	Transcriptional reprogramming in yeast using dCas9 and combinatorial gRNA strategies. <i>Microbial Cell Factories</i> , 2017, 16, 46.	4.0	102
15	Engineering of synthetic, stress-responsive yeast promoters. <i>Nucleic Acids Research</i> , 2016, 44, e136-e136.	14.5	99
16	Interactions between plant RING-H2 and plant-specific NAC (NAM/ATAF1/2/CUC2) proteins: RING-H2 molecular specificity and cellular localization. <i>Biochemical Journal</i> , 2003, 371, 97-108.	3.7	97
17	Evolution-guided engineering of small-molecule biosensors. <i>Nucleic Acids Research</i> , 2020, 48, e3-e3.	14.5	92
18	Senescence-associated Barley NAC (NAM, ATAF1,2, CUC) Transcription Factor Interacts with Radical-induced Cell Death 1 through a Disordered Regulatory Domain. <i>Journal of Biological Chemistry</i> , 2011, 286, 35418-35429.	3.4	84

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19	A DNA-binding-site landscape and regulatory network analysis for NAC transcription factors in <i>Arabidopsis thaliana</i> . <i>Nucleic Acids Research</i> , 2014, 42, 7681-7693.	14.5	84
20	NAC transcription factor gene regulatory and protein-protein interaction networks in plant stress responses and senescence. <i>IUBMB Life</i> , 2014, 66, 156-166.	3.4	77
21	Engineering an NADPH/NADP ⁺ Redox Biosensor in Yeast. <i>ACS Synthetic Biology</i> , 2016, 5, 1546-1556.	3.8	66
22	Order by disorder in plant signaling. <i>Trends in Plant Science</i> , 2012, 17, 625-632.	8.8	65
23	Matching NLR Immune Receptors to Autoimmunity in <i>camta3</i> Mutants Using Antimorphic NLR Alleles. <i>Cell Host and Microbe</i> , 2017, 21, 518-529.e4.	11.0	63
24	Regulation of basal resistance by a powdery mildew-induced cysteine-rich receptor-like protein kinase in barley. <i>Molecular Plant Pathology</i> , 2012, 13, 135-147.	4.2	62
25	CasPER, a method for directed evolution in genomic contexts using mutagenesis and CRISPR/Cas9. <i>Metabolic Engineering</i> , 2018, 48, 288-296.	7.0	60
26	Recent applications of synthetic biology tools for yeast metabolic engineering. <i>FEMS Yeast Research</i> , 2014, 15, n/a-n/a.	2.3	59
27	An Orthogonal and pH-Tunable Sensor-Selector for Muconic Acid Biosynthesis in Yeast. <i>ACS Synthetic Biology</i> , 2018, 7, 995-1003.	3.8	50
28	Improvement of <i>cis</i> - <i>cis</i> -Muconic Acid Production in <i>Saccharomyces cerevisiae</i> through Biosensor-Aided Genome Engineering. <i>ACS Synthetic Biology</i> , 2020, 9, 634-646.	3.8	50
29	Metabolic engineering for plant natural products biosynthesis: new procedures, concrete achievements and remaining limits. <i>Natural Product Reports</i> , 2021, 38, 2145-2153.	10.3	48
30	Coupling S-adenosylmethionine-dependent methylation to growth: Design and uses. <i>PLoS Biology</i> , 2019, 17, e2007050.	5.6	39
31	NAC genes. <i>Plant Signaling and Behavior</i> , 2010, 5, 907-910.	2.4	36
32	Design principles for nuclease-deficient CRISPR-based transcriptional regulators. <i>FEMS Yeast Research</i> , 2018, 18, .	2.3	34
33	Lighting up yeast cell factories by transcription factor-based biosensors. <i>FEMS Yeast Research</i> , 2017, 17, .	2.3	32
34	Engineering G protein-coupled receptor signalling in yeast for biotechnological and medical purposes. <i>FEMS Yeast Research</i> , 2020, 20, .	2.3	31
35	Transportome-wide engineering of <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2021, 64, 52-63.	7.0	27
36	High-Resolution Scanning of Optimal Biosensor Reporter Promoters in Yeast. <i>ACS Synthetic Biology</i> , 2020, 9, 218-226.	3.8	26

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37	Engineering yeast metabolism for the discovery and production of polyamines and polyamine analogues. <i>Nature Catalysis</i> , 2021, 4, 498-509.	34.4	26
38	System-level perturbations of cell metabolism using CRISPR/Cas9. <i>Current Opinion in Biotechnology</i> , 2017, 46, 134-140.	6.6	25
39	Integrating continuous hypermutation with high-throughput screening for optimization of <i>cis,cis</i> -muconic acid production in yeast. <i>Microbial Biotechnology</i> , 2021, 14, 2617-2626.	4.2	22
40	Ca ²⁺ Induces Spontaneous Dephosphorylation of a Novel P5A-type ATPase. <i>Journal of Biological Chemistry</i> , 2012, 287, 28336-28348.	3.4	17
41	Regulatory control circuits for stabilizing long-term anabolic product formation in yeast. <i>Metabolic Engineering</i> , 2020, 61, 369-380.	7.0	17
42	Directed evolution of VanR biosensor specificity in yeast. <i>Biotechnology Notes</i> , 2020, 1, 9-15.	1.2	17
43	A synthetic RNA-mediated evolution system in yeast. <i>Nucleic Acids Research</i> , 2021, 49, e88-e88.	14.5	17
44	Burden Imposed by Heterologous Protein Production in Two Major Industrial Yeast Cell Factories: Identifying Sources and Mitigation Strategies. <i>Frontiers in Fungal Biology</i> , 2022, 3, .	2.0	17
45	Modular 5'-UTR hexamers for context-independent tuning of protein expression in eukaryotes. <i>Nucleic Acids Research</i> , 2018, 46, e127.	14.5	15
46	Engineered Production of Short-Chain Acyl-Coenzyme A Esters in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 1105-1115.	3.8	14
47	Supplying plant natural products by yeast cell factories. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 33, 100567.	5.9	14
48	Deploying Microbial Synthesis for Halogenating and Diversifying Medicinal Alkaloid Scaffolds. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 594126.	4.1	13
49	Programmable polyketide biosynthesis platform for production of aromatic compounds in yeast. <i>Synthetic and Systems Biotechnology</i> , 2020, 5, 11-18.	3.7	13
50	Serotonin G Protein-Coupled Receptor-Based Biosensing Modalities in Yeast. <i>ACS Sensors</i> , 2022, 7, 1323-1335.	7.8	13
51	Transcriptome and Genome Size Analysis of the Venus Flytrap. <i>PLoS ONE</i> , 2015, 10, e0123887.	2.5	12
52	Engineered Reversal of Function in Glycolytic Yeast Promoters. <i>ACS Synthetic Biology</i> , 2019, 8, 1462-1468.	3.8	12
53	Design, Engineering, and Characterization of Prokaryotic Ligand-Binding Transcriptional Activators as Biosensors in Yeast. <i>Methods in Molecular Biology</i> , 2018, 1671, 269-290.	0.9	11
54	A Reporter System for Cytosolic Protein Aggregates in Yeast. <i>ACS Synthetic Biology</i> , 2021, 10, 466-477.	3.8	9

#	ARTICLE	IF	CITATIONS
55	How can we exploit functional genomics approaches for understanding the nature of plant defences? Barley as a case study. <i>European Journal of Plant Pathology</i> , 2008, 121, 257-266.	1.7	8
56	Assembly and Multiplex Genome Integration of Metabolic Pathways in Yeast Using CasEMBLR. <i>Methods in Molecular Biology</i> , 2018, 1671, 185-201.	0.9	8
57	A FAIR-compliant parts catalogue for genome engineering and expression control in <i>Saccharomyces cerevisiae</i> . <i>Synthetic and Systems Biotechnology</i> , 2022, 7, 657-663.	3.7	4
58	Dietary Change Enables Robust Growth-Coupling of Heterologous Methyltransferase Activity in Yeast. <i>ACS Synthetic Biology</i> , 2020, 9, 3408-3415.	3.8	3
59	How can we exploit functional genomics approaches for understanding the nature of plant defences? Barley as a case study. , 2008, , 257-266.		1
60	RNA-mediated in vivo Directed Evolution in Yeast. <i>Bio-protocol</i> , 2022, 12, e4346.	0.4	0