

Akinori Matsushika

List of Publications by Year in descending order

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2628
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#	ARTICLE	IF	CITATIONS
1	Ethanol production from xylose in engineered <i>Saccharomyces cerevisiae</i> strains: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2009, 84, 37-53.	1.7	383
2	Circadian Waves of Expression of the APRR1/TOC1 Family of Pseudo-Response Regulators in <i>Arabidopsis thaliana</i> : Insight into the Plant Circadian Clock. <i>Plant and Cell Physiology</i> , 2000, 41, 1002-1012.	1.5	373
3	The APRR1/TOC1 Quintet Implicated in Circadian Rhythms of <i>Arabidopsis thaliana</i> : I. Characterization with APRR1-Overexpressing Plants. <i>Plant and Cell Physiology</i> , 2002, 43, 58-69.	1.5	210
4	A Link between Circadian-Controlled bHLH Factors and the APRR1/TOC1 Quintet in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 619-629.	1.5	147
5	Bioethanol production performance of five recombinant strains of laboratory and industrial xylose-fermenting <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2009, 100, 2392-2398.	4.8	116
6	The APRR1/TOC1 Quintet Implicated in Circadian Rhythms of <i>Arabidopsis thaliana</i> : II. Characterization with CCA1-Overexpressing Plants. <i>Plant and Cell Physiology</i> , 2002, 43, 118-122.	1.5	112
7	Circadian-Associated Rice Pseudo Response Regulators (OsPRRs): Insight into the Control of Flowering Time. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 410-414.	0.6	106
8	Expression of protein engineered NADP ⁺ -dependent xylitol dehydrogenase increases ethanol production from xylose in recombinant <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2008, 81, 243-255.	1.7	104
9	Bioethanol production from xylose by recombinant <i>Saccharomyces cerevisiae</i> expressing xylose reductase, NADP ⁺ -dependent xylitol dehydrogenase, and xylulokinase. <i>Journal of Bioscience and Bioengineering</i> , 2008, 105, 296-299.	1.1	94
10	Light Response of the Circadian Waves of the APRR1/TOC1 Quintet: When Does the Quintet Start Singing Rhythmically in <i>Arabidopsis</i> ?. <i>Plant and Cell Physiology</i> , 2001, 42, 334-339.	1.5	81
11	Aberrant Expression of the Light-Inducible and Circadian-Regulated APRR9 Gene Belonging to the Circadian-Associated APRR1/TOC1 Quintet Results in the Phenotype of Early Flowering in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2002, 43, 833-843.	1.5	70
12	Characterization of non-oxidative transaldolase and transketolase enzymes in the pentose phosphate pathway with regard to xylose utilization by recombinant <i>Saccharomyces cerevisiae</i> . <i>Enzyme and Microbial Technology</i> , 2012, 51, 16-25.	1.6	67
13	Characterization of the APRR9 Pseudo-Response Regulator Belonging to the APRR1/TOC1 Quintet in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 1237-1245.	1.5	66
14	Bioethanol Production from Lignocellulosic Biomass by a Novel <i>Kluyveromyces marxianus</i> Strain. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1505-1510.	0.6	65
15	Efficient bioethanol production from xylose by recombinant <i>saccharomyces cerevisiae</i> requires high activity of xylose reductase and moderate xylulokinase activity. <i>Journal of Bioscience and Bioengineering</i> , 2008, 106, 306-309.	1.1	64
16	Xylose and xylose/glucose co-fermentation by recombinant <i>Saccharomyces cerevisiae</i> strains expressing individual hexose transporters. <i>Enzyme and Microbial Technology</i> , 2014, 63, 13-20.	1.6	64
17	Efficient Bioethanol Production by a Recombinant Flocculent <i>Saccharomyces cerevisiae</i> Strain with a Genome-Integrated NADP ⁺ -Dependent Xylitol Dehydrogenase Gene. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3818-3822.	1.4	62
18	Transcription analysis of recombinant industrial and laboratory <i>Saccharomyces cerevisiae</i> strains reveals the molecular basis for fermentation of glucose and xylose. <i>Microbial Cell Factories</i> , 2014, 13, 16.	1.9	56

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19	Cell Autonomous Circadian Waves of the APRR1/TOC1 Quintet in an Established Cell Line of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2003, 44, 360-365.	1.5	45
20	Fermentation of Xylose Causes Inefficient Metabolic State Due to Carbon/Energy Starvation and Reduced Glycolytic Flux in Recombinant Industrial <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , 2013, 8, e69005.	1.1	44
21	A Dual-Signaling Mechanism Mediated by the ArcB Hybrid Sensor Kinase Containing the Histidine-Containing Phosphotransfer Domain in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1998, 180, 3973-3977.	1.0	43
22	Structural and functional characterization of a bifunctional GH30-7 xylanase B from the filamentous fungus <i>Talaromyces cellulolyticus</i> . <i>Journal of Biological Chemistry</i> , 2019, 294, 4065-4078.	1.6	40
23	Draft Genome Sequence of <i>Kluyveromyces marxianus</i> Strain DMB1, Isolated from Sugarcane Bagasse Hydrolysate. <i>Genome Announcements</i> , 2014, 2, .	0.8	31
24	Molecular Dissection of the Promoter of the Light-Induced and Circadian-Controlled APRR9 Gene Encoding a Clock-Associated Component of <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 382-390.	0.6	30
25	Genetic improvement of xylose metabolism by enhancing the expression of pentose phosphate pathway genes in <i>Saccharomyces cerevisiae</i> IR-2 for high-temperature ethanol production. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017, 44, 879-891.	1.4	28
26	Cloning novel sugar transporters from <i>Scheffersomyces (Pichia) stipitis</i> allowing d-xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Letters</i> , 2015, 37, 1973-1982.	1.1	27
27	In Vitro Analysis of His-Asp Phosphorelays in <i>Aspergillus nidulans</i> : The First Direct Biochemical Evidence for the Existence of His-Asp Phosphotransfer Systems in Filamentous Fungi. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 2493-2502.	0.6	25
28	Identification and Characterization of a Novel <i>Issatchenkia orientalis</i> GPI-Anchored Protein, IoGas1, Required for Resistance to Low pH and Salt Stress. <i>PLoS ONE</i> , 2016, 11, e0161888.	1.1	25
29	Characterization of Circadian-Associated Pseudo-Response Regulators: I. Comparative Studies on a Series of Transgenic Lines Misexpressing Five Distinctive PRR Genes in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 527-534.	0.6	24
30	Direct ethanol fermentation from lignocellulosic biomass by Antarctic basidiomycetous yeast <i>Mrakia blollopis</i> under a low temperature condition. <i>Cryobiology</i> , 2013, 67, 241-243.	0.3	24
31	Ethanol Production from Xylo-oligosaccharides by Xylose-Fermenting <i>Saccharomyces cerevisiae</i> Expressing β -Xylosidase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1140-1146.	0.6	23
32	Ethanol fermentation from xylose by metabolically engineered strains of <i>Kluyveromyces marxianus</i> . <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 551-554.	1.1	23
33	The Structure and Function of the Histidine-Containing Phosphotransfer (HPt) Signaling Domain of the <i>Escherichia coli</i> ArcB Sensor. <i>Journal of Biochemistry</i> , 1998, 124, 440-445.	0.9	21
34	<i>Enterobacter oligotrophica</i> sp. nov., a novel oligotroph isolated from leaf soil. <i>MicrobiologyOpen</i> , 2019, 8, e00843.	1.2	19
35	Effect of Initial Cell Concentration on Ethanol Production by Flocculent <i>Saccharomyces cerevisiae</i> with Xylose-Fermenting Ability. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 1952-1960.	1.4	18
36	Mode of Action of GH30-7 Reducing-End Xylose-Releasing Exoxylanase A (Xyn30A) from the Filamentous Fungus <i>Talaromyces cellulolyticus</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	18

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37	Comparative study on a series of recombinant flocculent <i>Saccharomyces cerevisiae</i> strains with different expression levels of xylose reductase and xylulokinase. <i>Enzyme and Microbial Technology</i> , 2011, 48, 466-471.	1.6	17
38	Characterization of Three Putative Sub-Domains in the Signal-Input Domain of the ArcB Hybrid Sensor in <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2000, 127, 855-860.	0.9	15
39	Evolutionary adaptation of recombinant shochu yeast for improved xylose utilization. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 102-105.	1.1	15
40	Bioethanol Production by <i>Pichia stipitis</i> from Enzymatic Hydrolysates of Corn-cob-based Spent Mushroom Substrate. <i>Food Science and Technology Research</i> , 2011, 17, 267-272.	0.3	15
41	Characterization of a Recombinant Flocculent <i>Saccharomyces cerevisiae</i> Strain That Co-Ferments Glucose and Xylose: II. Influence of pH and Acetic Acid on Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2012, 168, 2094-2104.	1.4	15
42	Bench-scale bioethanol production from eucalyptus by high solid saccharification and glucose/xylose fermentation method. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 749-754.	1.7	15
43	Mutational Analysis of the Histidine-containing Phosphotransfer (HPt) Signaling Domain of the ArcB Sensor in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 1998, 62, 2236-2238.	0.6	14
44	Characterization of Circadian-Associated Pseudo-Response Regulators: II. The Function of PRR5 and Its Molecular Dissection in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 535-544.	0.6	14
45	Evaluation of <i>Saccharomyces cerevisiae</i> GAS1 with respect to its involvement in tolerance to low pH and salt stress. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 164-170.	1.1	14
46	High-temperature ethanol production by a series of recombinant xylose-fermenting <i>Kluyveromyces marxianus</i> strains. <i>Enzyme and Microbial Technology</i> , 2019, 129, 109359.	1.6	14
47	Substrate recognition by a bifunctional GH30-7 xylanase B from <i>Talaromyces cellulolyticus</i> . <i>FEBS Open Bio</i> , 2020, 10, 1180-1189.	1.0	13
48	<i>Deinococcus kurensis</i> sp. nov., isolated from pond water collected in Japan. <i>Archives of Microbiology</i> , 2020, 202, 1757-1762.	1.0	9
49	Electrospray multistage mass spectrometry in the negative ion mode for the unambiguous molecular and structural characterization of acidic hydrolysates from 4-O-methylglucuronoxylan generated by endoxylanases. <i>Journal of Mass Spectrometry</i> , 2019, 54, 213-221.	0.7	8
50	IoGAS1, a GPI-Anchored Protein Derived from <i>Issatchenkia orientalis</i> , Confers Tolerance of <i>Saccharomyces cerevisiae</i> to Multiple Acids. <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 1349-1359.	1.4	8
51	Increased ethanol production by deletion of <i>HAP4</i> in recombinant xylose-assimilating <i>Saccharomyces cerevisiae</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1623-1631.	1.4	7
52	GH30-7 Endoxylanase C from the Filamentous Fungus <i>Talaromyces cellulolyticus</i> . <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	7
53	Comparison of <i>Spathaspora passalidarum</i> and recombinant <i>Saccharomyces cerevisiae</i> for integration of first- and second-generation ethanol production. <i>FEMS Yeast Research</i> , 2021, 21, .	1.1	7
54	Application of <i>Pichia kudriavzevii</i> NBRC1279 and NBRC1664 to Simultaneous Saccharification and Fermentation for Bioethanol Production. <i>Fermentation</i> , 2021, 7, 83.	1.4	6

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55	Crystal structure of GH30-7 endoxylanase C from the filamentous fungus <i>Talaromyces cellulolyticus</i> . <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2020, 76, 341-349.	0.4	6
56	Characterization of a Recombinant Flocculent <i>Saccharomyces cerevisiae</i> Strain that Co-ferments Glucose and Xylose: I. Influence of the Ratio of Glucose/Xylose on Ethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 712-721.	1.4	5
57	Breeding of a xylose-fermenting hybrid strain by mating genetically engineered haploid strains derived from industrial <i>Saccharomyces cerevisiae</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 1773-1781.	1.4	5
58	Complete Genome Sequence of <i>Ureibacillus thermosphaericus</i> A1, a Thermophilic Bacillus Isolated from Compost. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
59	Identification and functional characterization of NAD(P) + dependent meso-diaminopimelate dehydrogenase from <i>Numidum massiliense</i> . <i>MicrobiologyOpen</i> , 2020, 9, e1059.	1.2	5
60	Comparison of the Performance of Eight Recombinant Strains of Xylose-Fermenting <i>Saccharomyces cerevisiae</i> s to Bioethanol Production from Rice Straw Enzymatic Hydrolyzate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1579-1582.	0.6	4
61	The Putative Transcription Factor Gene <i>thaB</i> Regulates Cellulase and Xylanase Production at the Enzymatic and Transcriptional Level in the Fungus <i>Talaromyces cellulolyticus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 190, 1360-1370.	1.4	3
62	Characterization of an NAD(P)+-dependent meso-diaminopimelate dehydrogenase from <i>Thermosyntropha lipolytica</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2020, 1868, 140476.	1.1	3
63	Application of a Pyruvate-Producing <i>Escherichia coli</i> Strain LAFPCPt-accBC-aceE: A Case Study for d-Lactate Production. <i>Fermentation</i> , 2020, 6, 70.	1.4	3
64	Improving Biomass Sugar Utilization by Engineered <i>Saccharomyces cerevisiae</i> . <i>Microbiology Monographs</i> , 2012, , 137-160.	0.3	2
65	Effect of Fermentation Conditions on the Flocculation of Recombinant <i>Saccharomyces cerevisiae</i> Capable of Co-fermenting Glucose and Xylose. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 623-631.	1.4	1
66	Draft genome sequence of <i>Deinococcus</i> sp. KR-1, a potential strain for palladium-leaching. <i>Journal of Genomics</i> , 2020, 8, 21-24.	0.6	1
67	<i>Paenibacillus glycanilyticus</i> subsp. <i>hiroshimensis</i> subsp. nov., isolated from leaf soil collected in Japan. <i>Archives of Microbiology</i> , 2021, 203, 1787-1793.	1.0	1
68	The Transcription Factor Gene <i>tclB2</i> Regulates Mannanolytic Enzyme Production in the Fungus <i>Talaromyces cellulolyticus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 3163-3172.	1.4	1
69	Draft Genome Sequence of <i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i> CCI2, Isolated from Leaf Soil. <i>Microbiology Resource Announcements</i> , 2021, 10, e0034321.	0.3	1
70	Draft Genome Sequence of <i>Enterobacter oligotrophicus</i> CCA3, Isolated from Leaf Soil. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	1
71	Influence of individual HXT transporters in xylose fermentation by recombinant <i>Saccharomyces cerevisiae</i> strains. <i>BMC Proceedings</i> , 2014, 8, P209.	1.8	0
72	Isolation, draft genome sequencing and identification of <i>Enterobacter roggenkampii</i> CCI9. <i>Journal of Genomics</i> , 2021, 9, 1-5.	0.6	0

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73	Performance of <i>Burkholderia multivorans</i> CCA53 for ethyl red degradation. Journal of General and Applied Microbiology, 2020, 66, 220-227.	0.4	0