Masashi Kato

List of Publications by Year
in descending order

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100 papers	4,444 citations	117453 34 h-index	106150 65 g-index
100 all docs	100 docs citations	100 times ranked	3690 citing authors

#	Article	IF	Citations
1	Genome sequencing and analysis of Aspergillus oryzae. Nature, 2005, 438, 1157-1161.	13.7	1,128
2	Interaction of HapX with the CCAAT-binding complexâ€"a novel mechanism of gene regulation by iron. EMBO Journal, 2007, 26, 3157-3168.	3.5	209
3	N-Acylhomoserine lactone regulates violacein production inChromobacterium violaceumtype strain ATCC 12472. FEMS Microbiology Letters, 2008, 279, 124-130.	0.7	203
4	Genomics ofAspergillus oryzae. Bioscience, Biotechnology and Biochemistry, 2007, 71, 646-670.	0.6	163
5	The <scp>J</scp> anus transcription factor <scp>H</scp> ap <scp>X</scp> controls fungal adaptation to both iron starvation and iron excess. EMBO Journal, 2014, 33, 2261-2276.	3.5	121
6	Novel Î±-Glucosidase from Aspergillus nidulans with Strong Transglycosylation Activity. Applied and Environmental Microbiology, 2002, 68, 1250-1256.	1.4	120
7	Identification of specific binding sites for XYR1, a transcriptional activator of cellulolytic and xylanolytic genes in Trichoderma reesei. Fungal Genetics and Biology, 2009, 46, 564-574.	0.9	117
8	HAP-Like CCAAT-Binding Complexes in Filamentous Fungi: Implications for Biotechnology. Fungal Genetics and Biology, 1999, 27, 243-252.	0.9	110
9	Genes regulated by AoXlnR, the xylanolytic and cellulolytic transcriptional regulator, in Aspergillus oryzae. Applied Microbiology and Biotechnology, 2009, 85, 141-154.	1.7	104
10	The 2008 update of the Aspergillus nidulans genome annotation: A community effort. Fungal Genetics and Biology, 2009, 46, S2-S13.	0.9	99
11	A Transcriptional Activator, AoXlnR, Controls the Expression of Genes Encoding Xylanolytic Enzymes in Aspergillus oryzae. Fungal Genetics and Biology, 2002, 35, 157-169.	0.9	90
12	Characterization of the amyR gene encoding a transcriptional activator for the amylase genes in Aspergillus nidulans. Current Genetics, 2001, 39, 10-15.	0.8	81
13	The SskA and SrrA Response Regulators Are Implicated in Oxidative Stress Responses of Hyphae and Asexual Spores in the Phosphorelay Signaling Network ofAspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2007, 71, 1003-1014.	0.6	75
14	Characterization of the NikA Histidine Kinase Implicated in the Phosphorelay Signal Transduction ofAspergillus nidulans, with Special Reference to Fungicide Responses. Bioscience, Biotechnology and Biochemistry, 2007, 71, 844-847.	0.6	73
15	A Single Subunit of a Heterotrimeric CCAAT-binding Complex Carries a Nuclear Localization Signal: Piggy Back Transport of the Pre-assembled Complex to the Nucleus. Journal of Molecular Biology, 2004, 342, 515-524.	2.0	70
16	Transcriptional activator, AoXlnR, mediates cellulose-inductive expression of the xylanolytic and cellulolytic genes inAspergillus oryzae. FEBS Letters, 2002, 528, 279-282.	1.3	65
17	Regulation of the amylolytic and (hemi-)cellulolytic genes in aspergilli. Journal of General and Applied Microbiology, 2001, 47, 1-19.	0.4	61
18	An Overview of the CCAAT-Box Binding Factor in Filamentous Fungi: Assembly, Nuclear Translocation, and Transcriptional Enhancement. Bioscience, Biotechnology and Biochemistry, 2005, 69, 663-672.	0.6	54

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19	Novel Î²-1,4-Mannanase Belonging to a New Glycoside Hydrolase Family in Aspergillus nidulans. Journal of Biological Chemistry, 2015, 290, 27914-27927.	1.6	53
20	An Aspergillus nidulans nuclear protein, AnCP, involved in enhancement of Taka-amylase A gene expression, binds to the CCAAT-containing taaG2, amdS, and gatA promoters. Molecular Genetics and Genomics, 1997, 254, 119-126.	2.4	52
21	Location of phosphorylation site and DNA-binding site of a positive regulator, OmpR, involved in activation of the osmoregulatory genes ofEscherichia coli. FEBS Letters, 1989, 249, 168-172.	1.3	50
22	<scp>ProA</scp>, a transcriptional regulator of fungal fruiting body development, regulates leaf hyphal network development in the <scp>E</scp>pichloÃ« festucaeâ€“<scp>L</scp>olium perenne symbiosis. Molecular Microbiology, 2013, 90, 551-568.	1.2	49
23	Location of DNA-binding segment of a positive regulator, OmpR, involved in activation of theompFandompCgenes ofEscherichia coli. FEBS Letters, 1988, 242, 27-30.	1.3	45
24	Xylose Triggers Reversible Phosphorylation of XlnR, the Fungal Transcriptional Activator of Xylanolytic and Cellulolytic Genes inAspergillus oryzae. Bioscience, Biotechnology and Biochemistry, 2011, 75, 953-959.	0.6	45
25	Sequence-specific Binding Sites in the Taka-amylase A G2 Promoter for the CreA Repressor Mediating Carbon Catabolite Repression. Bioscience, Biotechnology and Biochemistry, 1996, 60, 1776-1779.	0.6	43
26	Expression Profile of Amylolytic Genes inAspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2363-2370.	0.6	43
27	Biochemical characterization of thermostable Î²-1,4-mannanase belonging to the glycoside hydrolase family 134 from Aspergillus oryzae. Applied Microbiology and Biotechnology, 2017, 101, 3237-3245.	1.7	40
28	The Aspergillus nidulans CCAAT-binding factor AnCP/AnCF is a heteromeric protein analogous to the HAP complex of Saccharomyces cerevisiae. Molecular Genetics and Genomics, 1998, 257, 404-411.	2.4	39
29	Enzymatic saccharification of Eucalyptus bark using hydrothermal pre-treatment with carbon dioxide. Bioresource Technology, 2010, 101, 4936-4939.	4.8	39
30	Regulation of the Violacein Biosynthetic Gene Cluster by Acylhomoserine Lactone-Mediated Quorum Sensing in Chromobacterium violaceum ATCC 12472. Bioscience, Biotechnology and Biochemistry, 2010, 74, 2116-2119.	0.6	37
31	Secretion of Human Interleukin-2 in Biologically Active Form byBacillus brevisDirectly into Cultute Medium. Bioscience, Biotechnology and Biochemistry, 1997, 61, 1858-1861.	0.6	36
32	Structure and expression properties of the endo-ÃŽÂ²-1,4-glucanase A gene from the filamentous fungusAspergillus nidulans. FEMS Microbiology Letters, 1999, 175, 239-245.	0.7	36
33	Deciphering the Combinatorial DNA-binding Code of the CCAAT-binding Complex and the Iron-regulatory Basic Region Leucine Zipper (bZIP) Transcription Factor HapX. Journal of Biological Chemistry, 2015, 290, 6058-6070.	1.6	36
34	Isomaltose formed by Î±-glucosidases triggers amylase induction in Aspergillus nidulans. Current Genetics, 2002, 42, 43-50.	0.8	35
35	Inducer-Dependent Nuclear Localization of a Zn(II)₂Cys₆Transcriptional Activator, AmyR, inAspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2009, 73, 391-399.	0.6	35
36	In Vivo and in Vitro Analyses of the AmyR Binding Site of the Aspergillus nidulans agdA Promoter; Requirement of the CGG Direct Repeat for Induction and High Affinity Binding of AmyR. Bioscience, Biotechnology and Biochemistry, 2001, 65, 1568-1574.	0.6	34

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37	Isolation of genes encoding novel transcription factors which interact with the Hap complex from Aspergillus species. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1576, 176-182.	2.4	33
38	Biochemical Characterization of CYP505D6, a Self-Sufficient Cytochrome P450 from the White-Rot Fungus Phanerochaete chrysosporium. Applied and Environmental Microbiology, 2018, 84, .	1.4	32
39	Comparison and characterization of Î±-amylase inducers in Aspergillus nidulans based on nuclear localization of AmyR. Applied Microbiology and Biotechnology, 2012, 94, 1629-1635.	1.7	30
40	Mode of AmyR Binding to the CGGN8AGG Sequence in theAspergillus oryzaetaaG2Promoter. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1906-1911.	0.6	29
41	Insertion sequence IS5 contains a sharply curved DNA structure at its terminus. Molecular Genetics and Genomics, 1988, 214, 433-438.	2.4	28
42	Identification of the cis-acting elements involved in regulation of xylanase III gene expression in Trichoderma reesei PC-3-7. Fungal Genetics and Biology, 2008, 45, 1094-1102.	0.9	27
43	Structure and expression properties of the endo-Î²-1,4-glucanase A gene from the filamentous fungus Aspergillus nidulans. FEMS Microbiology Letters, 1999, 175, 239-245.	0.7	26
44	Identification and characterization of a thermostable pectate lyase from Aspergillus luchuensis var. saitoi. Food Chemistry, 2019, 276, 503-510.	4.2	26
45	An Aspergillus oryzae CCAAT-binding protein, AoCP, is involved in the high-level expression of the Taka-amylase A gene. Current Genetics, 2000, 37, 380-387.	0.8	25
46	Nuclear translocation of the heterotrimeric CCAAT binding factor of Aspergillus oryzae is dependent on two redundant localising signals in a single subunit. Archives of Microbiology, 2005, 184, 93-100.	1.0	25
47	In VitroAnalysis of His-Asp Phosphorelays inAspergillus nidulans: The First Direct Biochemical Evidence for the Existence of His-Asp Phosphotransfer Systems in Filamentous Fungi. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2493-2502.	0.6	25
48	Two family G xylanase genes from Chaetomium gracile and their expression in Aspergillus nidulans. Current Genetics, 1995, 29, 73-80.	0.8	24
49	Novel Promoter Sequence Required for Inductive Expression of theAspergillus nidulansEndoglucanase GeneeglA. Bioscience, Biotechnology and Biochemistry, 2008, 72, 312-320.	0.6	23
50	Regulation of cellulolytic genes by McmA, the SRF-MADS box protein in Aspergillus nidulans. Biochemical and Biophysical Research Communications, 2013, 431, 777-782.	1.0	23
51	A novel nuclear factor, SREB, binds to a cis-acting element, SRE, required for inducible expression of the Aspergillus oryzae Taka-amylase A gene in A. nidulans. Molecular Genetics and Genomics, 2000, 263, 232-238.	2.4	22
52	Functional analysis of the egl3 upstream region in filamentous fungus Trichoderma reesei. Applied Microbiology and Biotechnology, 2008, 78, 515-524.	1.7	20
53	Comparison of the paralogous transcription factors AraR and XlnR in Aspergillus oryzae. Current Genetics, 2018, 64, 1245-1260.	0.8	19
54	AoHapB, AoHapC and AoHapE, subunits of the Aspergillus oryzae CCAAT-binding complex, are functionally interchangeable with the corresponding subunits in Aspergillus nidulans. Current Genetics, 2001, 39, 175-182.	0.8	17

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55	GFP-Tagged Expression Analysis Revealed That Some Histidine Kinases ofAspergillus nidulansShow Temporally and Spatially Different Expression during the Life Cycle. Bioscience, Biotechnology and Biochemistry, 2008, 72, 428-434.	0.6	16
56	Thiamine synthesis regulates the fermentation mechanisms in the fungus Aspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1768-1775.	0.6	15
57	Oxygen-radical pretreatment promotes cellulose degradation by cellulolytic enzymes. Biotechnology for Biofuels, 2017, 10, 290.	6.2	15
58	Molecular Analysis by Deletion and Site-Directed Mutagenesis of the cis-Acting Upstream Sequence Involved in Activation of the ompF Promoter in Escherichia coli1. Journal of Biochemistry, 1989, 105, 341-347.	0.9	14
59	Cloning of a thermostable ascorbate oxidase gene from Acremonium sp. HI-25 and modification of the azide sensitivity of the enzyme by site-directed mutagenesis. BBA - Proteins and Proteomics, 1998, 1388, 444-456.	2.1	13
60	Control of reactive oxygen species (ROS) production through histidine kinases in Aspergillus nidulans under different growth conditions. FEBS Open Bio, 2014, 4, 90-95.	1.0	13
61	Development of a Highly Efficient Gene Replacement System for an Industrial Strain of Aspergillus oryzae Used in the Production of Miso, a Japanese Fermented Soybean Paste. Food Science and Technology Research, 2011, 17, 161-166.	0.3	12
62	Sequence Analysis and Heterologous Expression of Rhamnogalacturonan Lyase A Gene (AsrglA) from Shoyu Koji Mold, Aspergillus sojae KBN1340. Food Science and Technology Research, 2012, 18, 901-909.	0.3	12
63	Efficient Production of Casoxin D, a Bradykinin Agonist Peptide Derived from Human Casein, byBacillus brevis. Bioscience, Biotechnology and Biochemistry, 1995, 59, 2056-2059.	0.6	11
64	Oxygen radical based on non-thermal atmospheric pressure plasma alleviates lignin-derived phenolic toxicity in yeast. Biotechnology for Biofuels, 2020, 13, 18.	6.2	11
65	Depression of the xylanase-encoding cgxA gene of Chaetomium gracile in Aspergillus nidulans. Microbiological Research, 1999, 153, 369-376.	2.5	10
66	Title is missing!. Biotechnology Letters, 2002, 24, 1089-1096.	1.1	10
67	High-throughput screening of DNA binding sites for transcription factor AmyR from Aspergillus nidulans using DNA beads display system. Journal of Bioscience and Bioengineering, 2010, 109, 519-525.	1.1	10
68	Involvement of an SRF-MADS protein McmA in regulation of extracellular enzyme production and asexual/sexual development in Aspergillus nidulans. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1820-1828.	0.6	10
69	Characterization of pH-tolerant and thermostable GH 134 Î²-1,4-mannanase SsGH134 possessing carbohydrate binding module 10 from Streptomyces sp. NRRL B-24484. Journal of Bioscience and Bioengineering, 2018, 125, 287-294.	1.1	10
70	No Factors Except for the Hap Complex increase the Taka-amylase A Gene Expression by Binding to the CCAAT Sequence in the Promoter Region. Bioscience, Biotechnology and Biochemistry, 2001, 65, 2340-2342.	0.6	9
71	Upward shift of the pH optimum of Acremonium ascorbate oxidase. BBA - Proteins and Proteomics, 2002, 1596, 36-46.	2.1	9
72	Ability of Saccharomyces cerevisiae MC87-46 to assimilate isomaltose and its effects on sake taste. Scientific Reports, 2019, 9, 13908.	1.6	9

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73	A Simple and Rapid Method for the Preparation of a Cell-free Extract with CCAAT-Binding Activity from Filamentous Fungi. Bioscience, Biotechnology and Biochemistry, 2000, 64, 455-457.	0.6	8
74	Sequence Analysis and Heterologous Expression of Polygalacturonase Gene (AspecA) from a Shoyu Koji Mold, Aspergillus sojae KBN1340. Food Science and Technology Research, 2011, 17, 579-584.	0.3	7
75	Disruption and Overexpression of Acid Phosphatase Gene (aphA) from a Miso Koji Mold, Aspergillus oryzae KBN630, and Characterization of the Gene Product. Food Science and Technology Research, 2012, 18, 59-65.	0.3	7
76	Characterization of AnRP-mediated negative regulation of the xylanase gene, cgxA, from Chaetomium gracile in Aspergillus nidulans. Letters in Applied Microbiology, 2003, 36, 59-63.	1.0	6
77	Molecular Analysis of the Î±-Amylase Gene, AstaaG1, from Shoyu Koji Mold, Aspergillus sojae KBN1340. Food Science and Technology Research, 2013, 19, 255-261.	0.3	6
78	Biochemical Characterization of a Pectate Lyase AnPL9 from Aspergillus nidulans. Applied Biochemistry and Biotechnology, 2022, 194, 5627-5643.	1.4	6
79	A quantity control mechanism regulating levels of the HapE subunit of the Hap complex inAspergillus nidulans: no accumulation of HapE inhapCdeletion mutants. FEBS Letters, 2002, 512, 227-229.	1.3	5
80	Novel 4-methyl-2-oxopentanoate reductase involved in synthesis of the Japanese sake flavor, ethyl leucate. Applied Microbiology and Biotechnology, 2016, 100, 3137-3145.	1.7	5
81	Artificial AmyR::XlnR transcription factor induces Î±-amylase production in response to non-edible xylan-containing hemicellulosic biomass. Enzyme and Microbial Technology, 2021, 145, 109762.	1.6	5
82	Characterization of two 1,2,4-trihydroxybenzene 1,2-dioxygenases from Phanerochaete chrysosporium. Applied Microbiology and Biotechnology, 2022, 106, 4499-4509.	1.7	5
83	Structural features of the glycogen branching enzyme encoding genes from aspergilli. Microbiological Research, 2002, 157, 337-344.	2.5	4
84	Upregulation of promoter activity of the Aspergillus oryzae xylanase gene by site-directed mutagenesis. Biotechnology Letters, 2003, 25, 371-374.	1.1	4
85	The Region in a Subunit of theAspergillusCCAAT-Binding Protein Similar to the HAP4p-Recruiting Domain ofSaccharomyces cerevisiaeHap5p Is Not Essential for Transcriptional Enhancement. Bioscience, Biotechnology and Biochemistry, 2006, 70, 782-787.	0.6	4
86	Atomic oxygen radicalâ€induced intracellular oxidization of mould spore cells. Plasma Processes and Polymers, 2020, 17, 2000001.	1.6	4
87	Expression and Secretion of Recombinant Aspartic Proteinases by Bacillus Brevis. Advances in Experimental Medicine and Biology, 1995, 362, 589-596.	0.8	4
88	Characterization of Acid Phosphatase (AphC) from the Miso Koji Mold, Aspergillus oryzae KBN630: AphC is Mainly Responsible for Both Acid Phosphatase Activity and 5â€²-IMP Dephosphorylation Activity in Soybean-Koji Culture. Food Science and Technology Research, 2014, 20, 367-374.	0.3	3
89	Characterization of FsXEG12A from the cellulose-degrading ectosymbiotic fungus Fusarium spp. strain EI cultured by the ambrosia beetle. AMB Express, 2020, 10, 96.	1.4	2
90	Administration of Aspergillus oryzae suppresses DSS-induced colitis. Food Chemistry Molecular Sciences, 2022, 4, 100063.	0.9	2

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91	é¤1è€CCAAT-boxçµåˆè‡åˆä½“ã®ã‚¢ã‚»ãƒ–ãƒªãƒ¼è»¢å†™ä¿ƒé€²è£½ã«é–¢ã™ã‚‹ç©¶. Nippon Nogeikagaku Kaishi, 2003, 77, 960-9	0.3	1
92	Molecular Analysis of AsamyR Gene Encoding Transcriptional Factor for Amylolytic Gene from Shoyu Koji Mold, Aspergillus sojae KBN1340. Food Science and Technology Research, 2013, 19, 505-511.	0.3	1
93	A Study on Time Efficiency of CSMA/CA in Inter-Vehicle Communication Systems. , 2019, , .		1
94	Enhanced Bioremediation of 4-Chlorophenol by Electrically Neutral Reactive Species Generated from Nonthermal Atmospheric-Pressure Plasma. ACS Omega, 2022, 7, 16197-16203.	1.6	1
95	Chapter 6 Structural characteristics of presecretory proteins: their implication as to translocation competency. New Comprehensive Biochemistry, 1992, 22, 63-74.	0.1	0
96	Title is missing!. Kagaku To Seibutsu, 2009, 47, 718-724.	0.0	0
97	The appeal of fermented foods in Aichi prefecture. Journal for the Integrated Study of Dietary Habits, 2021, 31, 195-199.	0.0	0
98	[Review] Isolation and Characterization of GH134 Family Î²-Mannanases. Bulletin of Applied Glycoscience, 2020, 10, 83-88.	0.0	0
99	Study on biomass degradation by filamentous fungi and its contribution to Sustainable Developement Goals (SDGs). Mycotoxins, 2020, 70, 83-94.	0.2	0
100	Promotion of Amylase Productions from Aspergillus Oryzae Spores Exposed to Oxygen Radicals. , 2020, , .		0