

# Shinji Takenaka

## List of Publications by Citations

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79  
papers

1,247  
citations

19  
h-index

30  
g-index

79  
ext. papers

1,460  
ext. citations

3.6  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
79	Metabolism of azo dyes by <i>Lactobacillus casei</i> TISTR 1500 and effects of various factors on decolorization. <i>Water Research</i> , <b>2007</b> , 41, 985-92	12.5	82
78	Adaptation of <i>Pseudomonas</i> sp. strain 7-6 to quaternary ammonium compounds and their degradation via dual pathways. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 1797-802	4.8	71
77	Novel genes encoding 2-aminophenol 1,6-dioxygenase from <i>Pseudomonas</i> species AP-3 growing on 2-aminophenol and catalytic properties of the purified enzyme. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 14727-32	5.4	66
76	An integrated process for xylooligosaccharide and bioethanol production from corncob. <i>Bioresource Technology</i> , <b>2018</b> , 256, 399-407	11	56
75	The metabolic pathway of 4-aminophenol in <i>Burkholderia</i> sp. strain AK-5 differs from that of aniline and aniline with C-4 substituents. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 5410-3	4.8	56
74	Purification and characterization of two novel halotolerant extracellular proteases from <i>Bacillus subtilis</i> strain FP-133. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 433-40	2.1	51
73	Screening and characterization of bacteria that can utilize ammonium and nitrate ions simultaneously under controlled cultural conditions. <i>Journal of Bioscience and Bioengineering</i> , <b>2007</b> , 103, 185-91	3.3	39
72	Complete nucleotide sequence and functional analysis of the genes for 2-aminophenol metabolism from <i>Pseudomonas</i> sp. AP-3. <i>Archives of Microbiology</i> , <b>2000</b> , 174, 265-72	3	35
71	Cloning and sequence analysis of two catechol-degrading gene clusters from the aniline-assimilating bacterium <i>Frateuria</i> species ANA-18. <i>Gene</i> , <b>1999</b> , 226, 189-98	3.8	34
70	Cloning and functional analysis of aniline dioxygenase gene cluster, from <i>Frateuria</i> species ANA-18, that metabolizes aniline via an ortho-cleavage pathway of catechol. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2003</b> , 67, 2351-8	2.1	33
69	Purification and characterization of five alkaline, thermotolerant, and maltotetraose-producing $\alpha$ -amylases from <i>Bacillus halodurans</i> MS-2-5, and production of recombinant enzymes in <i>Escherichia coli</i> . <i>Enzyme and Microbial Technology</i> , <b>2008</b> , 43, 321-328	3.8	32
68	Purification, characterization, and molecular cloning of the xylanase from <i>Streptomyces thermovulgaris</i> TISTR1948 and its application to xylooligosaccharide production. <i>Journal of Molecular Catalysis B: Enzymatic</i> , <b>2016</b> , 129, 61-68		30
67	Metabolism of 2-aminophenol by <i>Pseudomonas</i> sp. AP-3: modified meta-cleavage pathway. <i>Archives of Microbiology</i> , <b>1998</b> , 170, 132-7	3	27
66	Purification and characterization of two alkaline, thermotolerant $\alpha$ -amylases from <i>Bacillus halodurans</i> 38C-2-1 and expression of the cloned gene in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2007</b> , 71, 2393-401	2.1	26
65	A cell factory of <i>Bacillus subtilis</i> engineered for the simple bioconversion of myo-inositol to scyllo-inositol, a potential therapeutic agent for Alzheimer's disease. <i>Microbial Cell Factories</i> , <b>2011</b> , 10, 69	6.4	25
64	Constitutive synthesis, purification, and characterization of catechol 1,2-dioxygenase from the aniline-assimilating bacterium <i>Rhodococcus</i> sp. AN-22. <i>Journal of Bioscience and Bioengineering</i> , <b>2004</b> , 98, 71-6	3.3	24
63	Purification and characterization of an eggshell membrane decomposing protease from <i>Pseudomonas aeruginosa</i> strain ME-4. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 107, 373-8	3.3	21

62	Purification, characterization, and gene analysis of catechol 2,3-dioxygenase from the aniline-assimilating bacterium <i>Pseudomonas</i> species AW-2. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1998</b> , 62, 747-52	2.1	21
61	Cloning of a gene encoding hydroxyquinol 1,2-dioxygenase that catalyzes both intradiol and extradiol ring cleavage of catechol. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>1999</b> , 63, 859-65	2.1	20
60	Microbial transformation of aniline derivatives: regioselective biotransformation and detoxification of 2-phenylenediamine by <i>Bacillus cereus</i> strain PDa-1. <i>Journal of Bioscience and Bioengineering</i> , <b>2006</b> , 102, 21-7	3.3	19
59	Isolation and characterization of thermotolerant bacterium utilizing ammonium and nitrate ions under aerobic conditions. <i>Biotechnology Letters</i> , <b>2007</b> , 29, 385-90	3	18
58	Three inositol dehydrogenases involved in utilization and interconversion of inositol stereoisomers in a thermophile, <i>Geobacillus kaustophilus</i> HTA426. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 1942-1952	2.9	17
57	Purification, characterization, and gene cloning of <i>Ceriporiopsis</i> sp. strain MD-1 peroxidases that decolorize human hair melanin. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 5106-12	4.8	17
56	Characterization of the native form and the carboxy-terminally truncated halotolerant form of $\alpha$ -amylases from <i>Bacillus subtilis</i> strain FP-133. <i>Journal of Basic Microbiology</i> , <b>2015</b> , 55, 780-9	2.7	16
55	Enhanced secretion of natto phytase by <i>Bacillus subtilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2015</b> , 79, 1906-14	2.1	16
54	Purification and characterization of an extracellular laccase from <i>Phlebia radiata</i> strain BP-11-2 that decolorizes fungal melanin. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2009</b> , 73, 939-42	2.1	16
53	Purification and characterization of a halotolerant intracellular protease from <i>Bacillus subtilis</i> strain FP-133. <i>Journal of Basic Microbiology</i> , <b>2006</b> , 46, 294-304	2.7	16
52	Isolation and culture conditions of a <i>Klebsiella pneumoniae</i> strain that can utilize ammonium and nitrate ions simultaneously with controlled iron and molybdate ion concentrations. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2002</b> , 66, 996-1001	2.1	15
51	Aspartic protease from <i>Aspergillus (Eurotium) repens</i> strain MK82 is involved in the hydrolysis and decolourisation of dried bonito (Katsuoobushi). <i>Journal of the Science of Food and Agriculture</i> , <b>2013</b> , 93, 1349-55	4.3	14
50	PhaP phasins play a principal role in poly- $\beta$ -hydroxybutyrate accumulation in free-living <i>Bradyrhizobium japonicum</i> . <i>BMC Microbiology</i> , <b>2013</b> , 13, 290	4.5	14
49	A novel meta-cleavage dioxygenase that cleaves a carboxyl-group-substituted 2-aminophenol. Purification and characterization of 4-amino-3-hydroxybenzoate 2,3-dioxygenase from <i>Bordetella</i> sp. strain 10d. <i>FEBS Journal</i> , <b>2002</b> , 269, 5871-7		14
48	A Dual Role for Ca in Expanding the Spectral Diversity and Stability of Light-Harvesting 1 Reaction Center Photocomplexes of Purple Phototrophic Bacteria. <i>Biochemistry</i> , <b>2019</b> , 58, 2844-2852	3.2	13
47	An improved <i>Bacillus subtilis</i> cell factory for producing scyllo-inositol, a promising therapeutic agent for Alzheimer's disease. <i>Microbial Cell Factories</i> , <b>2013</b> , 12, 124	6.4	13
46	Secretion of heterologous thermostable cellulases in <i>Bacillus subtilis</i> . <i>Journal of General and Applied Microbiology</i> , <b>2014</b> , 60, 175-82	1.5	13
45	Constitutive expression of <i>catABC</i> genes in the aniline-assimilating bacterium <i>Rhodococcus</i> species AN-22: production, purification, characterization and gene analysis of CatA, CatB and CatC. <i>Biochemical Journal</i> , <b>2006</b> , 393, 219-26	3.8	13

44	Cloning of a gene encoding 4-amino-3-hydroxybenzoate 2,3-dioxygenase from <i>Bordetella</i> sp. 10d. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 314, 489-94	3.4	12
43	Molecular cloning and sequence analysis of two distinct halotolerant extracellular proteases from <i>Bacillus subtilis</i> FP-133. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2011</b> , 75, 148-51	2.1	11
42	A novel coupled enzyme assay reveals an enzyme responsible for the deamination of a chemically unstable intermediate in the metabolic pathway of 4-amino-3-hydroxybenzoic acid in <i>Bordetella</i> sp. strain 10d. <i>FEBS Journal</i> , <b>2004</b> , 271, 3248-54		11
41	Evaluating of quality of rice bran protein concentrate prepared by a combination of isoelectronic precipitation and electrolyzed water treatment. <i>LWT - Food Science and Technology</i> , <b>2019</b> , 99, 262-267	5.4	11
40	Enzymatic valorization process of yellow cocoon waste for production of antioxidative sericin and fibroin film. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 953-962	3.5	11
39	Production of catechol from benzoate by the wild strain <i>Ralstonia</i> species Ba-0323 and characterization of its catechol 1,2-dioxygenase. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2001</b> , 65, 1957-64	2.1	10
38	Characterization of thermostable alkaline protease from <i>Bacillus halodurans</i> SE5 and its application in degumming coupled with sericin hydrolysate production from yellow cocoon. <i>Process Biochemistry</i> , <b>2019</b> , 78, 63-70	4.8	10
37	<i>Bradyrhizobium diazoefficiens</i> USDA110 PhaR functions for pleiotropic regulation of cellular processes besides PHB accumulation. <i>BMC Microbiology</i> , <b>2018</b> , 18, 156	4.5	10
36	Heterologous expression and characterisation of the <i>Aspergillus</i> aspartic protease involved in the hydrolysis and decolorisation of red-pigmented proteins. <i>Journal of the Science of Food and Agriculture</i> , <b>2017</b> , 97, 95-101	4.3	9
35	Lycopene-Family Carotenoids Confer Thermostability on Photocomplexes from a New Thermophilic Purple Bacterium. <i>Biochemistry</i> , <b>2020</b> , 59, 2351-2358	3.2	9
34	Characterization of surface <i>Aspergillus</i> community involved in traditional fermentation and ripening of katsuobushi. <i>International Journal of Food Microbiology</i> , <b>2020</b> , 327, 108654	5.8	9
33	Extracellular protease derived from lactic acid bacteria stimulates the fermentative lactic acid production from the by-products of rice as a biomass refinery function. <i>Journal of Bioscience and Bioengineering</i> , <b>2017</b> , 123, 245-251	3.3	8
32	Fe-superoxide dismutase and 2-hydroxy-1,4-benzoquinone reductase preclude the auto-oxidation step in 4-aminophenol metabolism by <i>Burkholderia</i> sp. strain AK-5. <i>Biodegradation</i> , <b>2011</b> , 22, 1-11	4.1	8
31	<i>Bacillus cereus</i> strain 10-L-2 produces two arylamine N-acetyltransferases that transform 4-phenylenediamine into 4-aminoacetanilide. <i>Journal of Bioscience and Bioengineering</i> , <b>2007</b> , 103, 147-54 <sup>2,3</sup>		8
30	Purification, characterization, and gene cloning of cis,cis-muconate cycloisomerase from benzamide-assimilating <i>Arthrobacter</i> sp. BA-5-17. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 231, 119-24	2.9	8
29	Direct bioconversion of rice residue from canteen waste into lipids by new amylolytic oleaginous yeast <i>Sporidiobolus pararoseus</i> KX709872. <i>Preparative Biochemistry and Biotechnology</i> , <b>2018</b> , 48, 361-371 <sup>4</sup>		7
28	Enrichment and characterization of a bacterial culture that can degrade 4-aminopyridine. <i>BMC Microbiology</i> , <b>2013</b> , 13, 62	4.5	7
27	Gene cloning and characterization of arylamine N-acetyltransferase from <i>Bacillus cereus</i> strain 10-L-2. <i>Journal of Bioscience and Bioengineering</i> , <b>2009</b> , 107, 27-32	3.3	7

26	Constitutive synthesis of enzymes involved in 2-aminophenol metabolism and inducible synthesis of enzymes involved in benzoate, p-hydroxybenzoate, and protocatechuate metabolism in <i>Pseudomonas</i> sp. strain AP-3. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 1033-5	2.1	7
25	Influences of N-linked glycosylation on the biochemical properties of aspartic protease from <i>Aspergillus glaucus</i> MA0196. <i>Process Biochemistry</i> , <b>2019</b> , 79, 74-80	4.8	7
24	<i>Bacillus subtilis</i> iolU encodes an additional NADP-dependent scyllo-inositol dehydrogenase. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2017</b> , 81, 1026-1032	2.1	6
23	Metabolism of steroids by cytochrome P450 2C9 variants. <i>Biopharmaceutics and Drug Disposition</i> , <b>2018</b> , 39, 371-377	1.7	6
22	Ammonia assimilation in <i>Klebsiella pneumoniae</i> F-5-2 that can utilize ammonium and nitrate ions simultaneously: purification and characterization of glutamate dehydrogenase and glutamine synthetase. <i>Journal of Bioscience and Bioengineering</i> , <b>2002</b> , 93, 584-8	3.3	6
21	Enantioselective N-acetylation of 2-phenylglycine by an unusual N-acetyltransferase from <i>Chryseobacterium</i> sp. <i>Biotechnology Letters</i> , <b>2013</b> , 35, 1053-9	3	5
20	Gene cloning and characterization of a deaminase from the 4-amino-3-hydroxybenzoate-assimilating <i>Bordetella</i> sp. strain 10d. <i>FEMS Microbiology Letters</i> , <b>2009</b> , 298, 93-8	2.9	5
19	Purification and characterization of muconate cycloisomerase from aniline-assimilating <i>Rhodococcus erythropolis</i> AN-13. <i>Journal of Bioscience and Bioengineering</i> , <b>1998</b> , 85, 521-524		5
18	Regulation by two CatR proteins that differ in binding affinity to catB promoters expressing two cat gene clusters. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2001</b> , 65, 2146-53	2.1	5
17	Isolation and characterization of an aspartic protease able to hydrolyze and decolorize heme proteins from <i>Aspergillus glaucus</i> . <i>Journal of the Science of Food and Agriculture</i> , <b>2019</b> , 99, 2042-2047	4.3	5
16	<i>Bacillus subtilis</i> IolQ (DegA) is a transcriptional repressor of iolX encoding NAD-dependent scyllo-inositol dehydrogenase. <i>BMC Microbiology</i> , <b>2017</b> , 17, 154	4.5	4
15	Biochemical and Spectroscopic Characterizations of a Hybrid Light-Harvesting Reaction Center Core Complex. <i>Biochemistry</i> , <b>2018</b> , 57, 4496-4503	3.2	4
14	Metabolism of 7-ethoxycoumarin, flavanone and steroids by cytochrome P450 2C9 variants. <i>Biopharmaceutics and Drug Disposition</i> , <b>2017</b> , 38, 486-493	1.7	4
13	Electrostatic charge controls the lowest LH1 Q transition energy in the triply extremophilic purple phototrophic bacterium, <i>Halorhodospira halochloris</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2021</b> , 1862, 148473	4.6	4
12	Characterization and mutation analysis of a halotolerant serine protease from a new isolate of <i>Bacillus subtilis</i> . <i>Biotechnology Letters</i> , <b>2018</b> , 40, 189-196	3	3
11	Molecular characterization of a novel N-acetyltransferase from <i>Chryseobacterium</i> sp. <i>Applied and Environmental Microbiology</i> , <b>2014</b> , 80, 1770-6	4.8	3
10	Hyperphosphorylation of DegU cancels CcpA-dependent catabolite repression of rocG in <i>Bacillus subtilis</i> . <i>BMC Microbiology</i> , <b>2015</b> , 15, 43	4.5	2
9	Metabolism of 4-amino-3-hydroxybenzoic acid by <i>Bordetella</i> sp. strain 10d: A different modified meta-cleavage pathway for 2-aminophenols. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 2653-61 <sup>1</sup>		2

8	Identification and characterization of extracellular enzymes secreted by <i>Aspergillus</i> spp. involved in lipolysis and lipid-antioxidation during katsuobushi fermentation and ripening. <i>International Journal of Food Microbiology</i> , <b>2021</b> , 353, 109299	5.8	2
7	Improvement of the halotolerance of a <i>Bacillus</i> serine protease by protein surface engineering. <i>Journal of Basic Microbiology</i> , <b>2021</b> ,	2.7	1
6	Efficient Enzymatic Process for Mulberry Paper Production: An Approach for Xylooligosaccharide Production Coupled with Minimizing Bleaching Agent Doses. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 5347-5360	3.2	1
5	Salt- and pH-Dependent Thermal Stability of Photocomplexes from Extremophilic Bacteriochlorophyll b-Containing Halorhodospira Species. <i>Microorganisms</i> , <b>2022</b> , 10, 959	4.9	1
4	Characterization of an organic-solvent-stable elastase from <i>Pseudomonas indica</i> and its potential use in eggshell membrane hydrolysis. <i>Process Biochemistry</i> , <b>2019</b> , 85, 156-163	4.8	0
3	Effect of protease addition for reducing turbidity and flocculation of solid particles in drainage water derived from wheat-flour noodle boiling process and its electrostatic properties. <i>Water Resources and Industry</i> , <b>2021</b> , 25, 100150	4.5	0
2	Functional characterization of CYP1A9 and CYP1C1 from <i>Anguilla japonica</i> . <i>Environmental Toxicology and Pharmacology</i> , <b>2015</b> , 40, 360-8	5.8	
1	Homology modeling and prediction of the amino acid residues participating in the transfer of acetyl-CoA to arylalkylamine by the N-acetyltransferase from <i>Chryseobacterium</i> sp. <i>Biotechnology Letters</i> , <b>2017</b> , 39, 1699-1707	3	