

# Shinji Takenaka

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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         |
| 78 | Improvement of the halotolerance of a Bacillus serine protease by protein surface engineering. <i>Journal of Basic Microbiology</i> , <b>2021</b> ,   | 2.7 | 1         |
| 77 | 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         |
| 76 | 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         |
| 75 | 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        |
| 74 | Identification and characterization of extracellular enzymes secreted by Aspergillus 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         |
| 73 | Electrostatic charge controls the lowest LH1 Q transition energy in the triply extremophilic purple phototrophic bacterium, Halorhodospira halochloris. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2021</b> , 1862, 148473                           | 4.6 | 4         |
| 72 | 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         |
| 71 | Characterization of surface Aspergillus community involved in traditional fermentation and ripening of katsuobushi. <i>International Journal of Food Microbiology</i> , <b>2020</b> , 327, 108654   | 5.8 | 9         |
| 70 | Characterization of an organic-solvent-stable elastase from Pseudomonas indica and its potential use in eggshell membrane hydrolysis. <i>Process Biochemistry</i> , <b>2019</b> , 85, 156-163   | 4.8 | 0         |
| 69 | 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        |
| 68 | Isolation and characterization of an aspartic protease able to hydrolyze and decolorize heme proteins from Aspergillus glaucus. <i>Journal of the Science of Food and Agriculture</i> , <b>2019</b> , 99, 2042-2047   | 4.3 | 5         |
| 67 | Influences of N-linked glycosylation on the biochemical properties of aspartic protease from Aspergillus glaucus MA0196. <i>Process Biochemistry</i> , <b>2019</b> , 79, 74-80  | 4.8 | 7         |
| 66 | Characterization of thermostable alkaline protease from Bacillus halodurans 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        |
| 65 | 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        |
| 64 | Direct bioconversion of rice residue from canteen waste into lipids by new amylolytic oleaginous yeast Sporidiobolus pararoseus KX709872. <i>Preparative Biochemistry and Biotechnology</i> , <b>2018</b> , 48, 361-371   | 4   | 7         |
| 63 | An integrated process for xylooligosaccharide and bioethanol production from corncob. <i>Bioresource Technology</i> , <b>2018</b> , 256, 399-407  | 11  | 56        |

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|----|--|-----|----|
| 62 | 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  |
| 61 | 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  |
| 60 | Metabolism of steroids by cytochrome P450 2C9 variants. <i>Biopharmaceutics and Drug Disposition</i> , <b>2018</b> , 39, 371-377   | 1.7 | 6  |
| 59 | Bradyrhizobium diazoefficiens USDA110 PhaR functions for pleiotropic regulation of cellular processes besides PHB accumulation. <i>BMC Microbiology</i> , <b>2018</b> , 18, 156  | 4.5 | 10 |
| 58 | 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  |
| 57 | <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  |
| 56 | <i>Bacillus subtilis</i> lolQ (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  |
| 55 | 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   |    |
| 54 | 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  |
| 53 | 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  |
| 52 | 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 |
| 51 | 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 |    |
| 50 | 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  |
| 49 | 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 |
| 48 | 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 |
| 47 | 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 |
| 46 | 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  |
| 45 | Enrichment and characterization of a bacterial culture that can degrade 4-aminopyridine. <i>BMC Microbiology</i> , <b>2013</b> , 13, 62  | 4.5 | 7  |

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|----|--|------|----|
| 44 | Aspartic protease from <i>Aspergillus (Eurotium) repens</i> strain MK82 is involved in the hydrolysis and decolourisation of dried bonito (Katsuo-bushi). <i>Journal of the Science of Food and Agriculture</i> , <b>2013</b> , 93, 1349-55  | 4.3  | 14 |
| 43 | 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 |
| 42 | 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 |
| 41 | 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  |
| 40 | 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 |
| 39 | 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  |
| 38 | 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 |
| 37 | 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 |
| 36 | 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  |
| 35 | 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 |
| 34 | 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  |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |

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|----|--|-----|----|
| 26 | Bacillus cereus 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   | 3.3 | 8  |
| 25 | 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 |
| 24 | Purification and characterization of a halotolerant intracellular protease from Bacillus subtilis strain FP-133. <i>Journal of Basic Microbiology</i> , <b>2006</b> , 46, 294-304  | 2.7 | 16 |
| 23 | Purification and characterization of two novel halotolerant extracellular proteases from Bacillus subtilis strain FP-133. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 433-40   | 2.1 | 51 |
| 22 | Microbial transformation of aniline derivatives: regioselective biotransformation and detoxification of 2-phenylenediamine by Bacillus cereus strain PDA-1. <i>Journal of Bioscience and Bioengineering</i> , <b>2006</b> , 102, 21-7  | 3.3 | 19 |
| 21 | Metabolism of 4-amino-3-hydroxybenzoic acid by Bordetella sp. strain 10d: A different modified meta-cleavage pathway for 2-aminophenols. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2006</b> , 70, 2653-61   | 2.1 | 2  |
| 20 | Constitutive expression of catABC genes in the aniline-assimilating bacterium Rhodococcus 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 |
| 19 | Constitutive synthesis of enzymes involved in 2-aminophenol metabolism and inducible synthesis of enzymes involved in benzoate, p-hydroxybenzoate, and protocatechuate metabolism in Pseudomonas sp. strain AP-3. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2005</b> , 69, 1033-5 | 2.1 | 7  |
| 18 | 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 Bordetella sp. strain 10d. <i>FEBS Journal</i> , <b>2004</b> , 271, 3248-54                                  |     | 11 |
| 17 | Constitutive synthesis, purification, and characterization of catechol 1,2-dioxygenase from the aniline-assimilating bacterium Rhodococcus sp. AN-22. <i>Journal of Bioscience and Bioengineering</i> , <b>2004</b> , 98, 71-6   | 3.3 | 24 |
| 16 | Purification, characterization, and gene cloning of cis,cis-muconate cycloisomerase from benzamide-assimilating Arthrobacter sp. BA-5-17. <i>FEMS Microbiology Letters</i> , <b>2004</b> , 231, 119-24   | 2.9 | 8  |
| 15 | Cloning of a gene encoding 4-amino-3-hydroxybenzoate 2,3-dioxygenase from Bordetella sp. 10d. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 314, 489-94   | 3.4 | 12 |
| 14 | Cloning and functional analysis of aniline dioxygenase gene cluster, from Frateuria 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 |
| 13 | The metabolic pathway of 4-aminophenol in Burkholderia 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 |
| 12 | Ammonia assimilation in Klebsiella pneumoniae 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  |
| 11 | 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 Bordetella sp. strain 10d. <i>FEBS Journal</i> , <b>2002</b> , 269, 5871-7                                      |     | 14 |
| 10 | Isolation and culture conditions of a Klebsiella pneumoniae 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 |
| 9  | 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  |

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|---|--|-----|----|
| 8 | 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 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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  |
| 3 | 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 |
| 2 | 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 |
| 1 | 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 |