# Shouji Takahashi

List of Publications by Year
in descending order

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|---|---|---|---|
| 49 papers | 1,002 citations | 471509 17 h-index | 434195 31 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 839 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Direct and Efficient Production of Ethanol from Cellulosic Material with a Yeast Strain Displaying Cellulolytic Enzymes. Applied and Environmental Microbiology, 2002, 68, 5136-5141. | 3.1 | 215 |
| 2 | Extracellular production of active Rhizopus oryzae lipase by Saccharomyces cerevisiae. Journal of Bioscience and Bioengineering, 1998, 86, 164-168. | 0.9 | 63 |
| 3 | Purification and characterization of aspartate racemase from the bivalve mollusk Scapharca broughtonii. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 134, 307-314. | 1.6 | 53 |
| 4 | N-Methyl-d-glutamate and N-methyl-l-glutamate in Scapharca broughtonii (Mollusca) and other invertebrates. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 134, 79-87. | 1.6 | 50 |
| 5 | Isolation and Identification of Persistent Chlorinated Organophosphorus Flame Retardant-Degrading Bacteria. Applied and Environmental Microbiology, 2010, 76, 5292-5296. | 3.1 | 40 |
| 6 | Bacterial d-amino acid oxidases: Recent findings and future perspectives. Bioengineered, 2015, 6, 237-241. | 3.2 | 37 |
| 7 | Cloning and Expression of the Pyridoxal 5â€²-Phosphateâ€“Dependent Aspartate Racemase Gene from the Bivalve Mollusk Scapharca broughtonii and Characterization of the Recombinant Enzyme. Journal of Biochemistry, 2006, 139, 235-244. | 1.7 | 36 |
| 8 | Expression of Rhizopus oryzae lipase gene in Saccharomyces cerevisiae. Journal of Molecular Catalysis B: Enzymatic, 2002, 17, 113-124. | 1.8 | 33 |
| 9 | Enrichment and characterization of chlorinated organophosphate ester-degrading mixed bacterial cultures. Journal of Bioscience and Bioengineering, 2008, 106, 27-32. | 2.2 | 33 |
| 10 | Haloalkylphosphorus Hydrolases Purified from Sphingomonas sp. Strain TDK1 and Sphingobium sp. Strain TCM1. Applied and Environmental Microbiology, 2014, 80, 5866-5873. | 3.1 | 33 |
| 11 | A Highly Stable <scp>d</scp> -Amino Acid Oxidase of the Thermophilic Bacterium Rubrobacter xylanophilus. Applied and Environmental Microbiology, 2014, 80, 7219-7229. | 3.1 | 31 |
| 12 | Identification of alkaline phosphatase genes for utilizing a flame retardant, tris(2-chloroethyl) phosphate, in Sphingobium sp. strain TCM1. Applied Microbiology and Biotechnology, 2017, 101, 2153-2162. | 3.6 | 31 |
| 13 | Construction of the combinatorial library of Rhizopus oryzae lipase mutated in the lid domain by displaying on yeast cell surface. Journal of Molecular Catalysis B: Enzymatic, 2002, 17, 167-173. | 1.8 | 25 |
| 14 | Cloning and Expression in Escherichia coli of the D-Aspartate Oxidase Gene from the Yeast Cryptococcus humicola and Characterization of the Recombinant Enzyme. Journal of Biochemistry, 2004, 135, 533-540. | 1.7 | 25 |
| 15 | Occurrence of N-methyl-l-aspartate in bivalves and its distribution compared with that of N-methyl-d-aspartate and d,l-aspartate. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2001, 130, 493-500. | 1.6 | 23 |
| 16 | Physiological role ofD-aspartate oxidase in the assimilation and detoxification ofD-aspartate in the yeastCryptococcus humicola. Yeast, 2005, 22, 1203-1212. | 1.7 | 20 |
| 17 | Genetic transformation of the yeast Rhodotorula gracilis ATCC 26217 by electroporation. Applied Biochemistry and Microbiology, 2014, 50, 624-628. | 0.9 | 18 |
| 18 | Nucleotides modulate the activity of aspartate racemase of Scapharca broughtonii. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 134, 713-719. | 1.6 | 15 |

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|---|---|---|---|
| 19 | Cloning and expression of carp acetylcholinesterase gene in Pichia pastoris and characterization of the recombinant enzyme. Protein Expression and Purification, 2009, 64, 205-212. | 1.3 | 15 |
| 20 | Complete detoxification of tris(2-chloroethyl) phosphate by two bacterial strains: Sphingobium sp. strain TCM1 and Xanthobacter autotrophicus strain GJ10. Journal of Bioscience and Bioengineering, 2012, 114, 306-311. | 2.2 | 15 |
| 21 | Preparation of high activity yeast whole cell bioctalysts by optimization of intracellular production of recombinant Rhizopus oryzae lipase. Journal of Molecular Catalysis B: Enzymatic, 2002, 17, 143-149. | 1.8 | 14 |
| 22 | Complete detoxification of tris(1,3-dichloro-2-propyl) phosphate by mixed two bacteria, Sphingobium sp. strain TCM1 and Arthrobacter sp. strain PY1. Journal of Bioscience and Bioengineering, 2012, 113, 79-83. | 2.2 | 14 |
| 23 | D-Amino acid oxidase of Streptomyces coelicolor and the effect of D-amino acids on the bacterium. Annals of Microbiology, 2014, 64, 1167-1177. | 2.6 | 14 |
| 24 | An atypical phosphodiesterase capable of degrading haloalkyl phosphate diesters from Sphingobium sp. strain TCM1. Scientific Reports, 2017, 7, 2842. | 3.3 | 14 |
| 25 | A novel thermostable d-amino acid oxidase of the thermophilic fungus Rasamsonia emersonii strain YA. Scientific Reports, 2019, 9, 11948. | 3.3 | 14 |
| 26 | d-Aspartate oxidase: distribution, functions, properties, and biotechnological applications. Applied Microbiology and Biotechnology, 2020, 104, 2883-2895. | 3.6 | 12 |
| 27 | Characterization and improvement of substrate-binding affinity of d-aspartate oxidase of the thermophilic fungus Thermomyces dupontii. Applied Microbiology and Biotechnology, 2019, 103, 4053-4064. | 3.6 | 11 |
| 28 | Occurrence and functions of freeD-aspartate and its metabolizing enzymes. Chemical Record, 2006, 6, 259-266. | 5.8 | 8 |
| 29 | Draft Genome Sequences of Sphingobium sp. Strain TCM1 and Sphingomonas sp. Strain TDK1, Haloalkyl Phosphate Flame Retardant- and Plasticizer-Degrading Bacteria. Genome Announcements, 2016, 4, . | 0.8 | 8 |
| 30 | Determination of d-aspartate N-methyltransferase activity in the starfish by direct analysis of N-methyl-d-aspartate with high-performance liquid chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 3229-3234. | 2.3 | 7 |
| 31 | Development of an autonomously replicating linear vector of the yeast Cryptococcus humicola by using telomere-like sequence repeats. Applied Microbiology and Biotechnology, 2011, 89, 1213-1221. | 3.6 | 7 |
| 32 | d-Amino Acid-Induced Expression of d-Amino Acid Oxidase in the Yeast Schizosaccharomyces pombe. Current Microbiology, 2012, 65, 764-769. | 2.2 | 7 |
| 33 | Effect of the truncation of the C-terminal region of Kex2 endoprotease on processing of the recombinant Rhizopus oryzae lipase precursor in the co-expression system in yeast. Journal of Molecular Catalysis B: Enzymatic, 2000, 10, 233-240. | 1.8 | 6 |
| 34 | Isolation of the Cryptococcus humicolus URA3 gene encoding orotidine-5â€²-phosphate decarboxylase and its use as a selective marker for transformation. Journal of Bioscience and Bioengineering, 2003, 96, 23-31. | 2.2 | 6 |
| 35 | Microbial Degradation of Persistent Organophosphorus Flame Retardants. , 0, , . | | 6 |
| 36 | An active-site mutation enhances the catalytic activity of the yeast Cryptococcus humicola d-aspartate oxidase. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 235-240. | 1.8 | 5 |

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|---|---|---|---|
| 37 | Possible role of a histidine residue in the substrate specificity of yeast d-aspartate oxidase. Journal of Biochemistry, 2015, 159, mvv108. | 1.7 | 5 |
| 38 | Draft Genome Sequence of the Yeast Vanrija humicola (Formerly Cryptococcus humicola) Strain UJ1, a Producer of <scp>d</scp> -Aspartate Oxidase. Genome Announcements, 2018, 6, . | 0.8 | 5 |
| 39 | Development of an enzymatic screening method for d-aspartate-producing lactic acid bacteria. Enzyme and Microbial Technology, 2021, 149, 109835. | 3.2 | 5 |
| 40 | Crystal structure of a pyridoxal 5â€²-phosphate-dependent aspartate racemase derived from the bivalve mollusc Scapharca broughtonii. Acta Crystallographica Section F, Structural Biology Communications, 2017, 73, 651-656. | 0.8 | 4 |
| 41 | d-Aspartate N-methyltransferase catalyzes biosynthesis of N-methyl-d-aspartate (NMDA), a well-known selective agonist of the NMDA receptor, in mice. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140527. | 2.3 | 4 |
| 42 | X-ray structure analysis of a unique <scp>D</scp>-amino-acid oxidase from the thermophilic fungus Rasamsonia emersonii strain YA. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 517-523. | 0.8 | 4 |
| 43 | Aspartate racemase and d-aspartate in starfish; possible involvement in testicular maturation. Bioscience, Biotechnology and Biochemistry, 2020, 84, 95-102. | 1.3 | 3 |
| 44 | Enzymatic characterization and regulation of gene expression of PhoK alkaline phosphatase in Sphingobium sp. strain TCM1. Applied Microbiology and Biotechnology, 2020, 104, 1125-1134. | 3.6 | 3 |
| 45 | Identification of an Acidic Amino Acid Permease Involved in d-Aspartate Uptake in the Yeast Cryptococcus humicola. Microorganisms, 2021, 9, 192. | 3.6 | 2 |
| 46 | Liquid chromatography-electrospray ionization-tandem mass spectrometric assay for d-aspartate N-methyltransferase activity in ark shells. Bioscience, Biotechnology and Biochemistry, 2020, 84, 500-506. | 1.3 | 1 |
| 47 | Complete Genome Sequence of Latilactobacillus sp. Strain WDN19, a High- d- Aspartate-Producing Lactic Acid Bacterium Isolated from a Japanese Pickle. Microbiology Resource Announcements, 2021, 10, e0056821. | 0.6 | 1 |
| 48 | Mechanism of high d-aspartate production in the lactic acid bacterium Latilactobacillus sp. strain WDN19. Applied Microbiology and Biotechnology, 2022, 106, 2651-2663. | 3.6 | 1 |
| 49 | Regulation of d-Aspartate Oxidase Gene Expression by Pyruvate Metabolism in the Yeast Cryptococcus humicola. Microorganisms, 2021, 9, 2444. | 3.6 | 0 |