Takashi Ohshiro

List of Publications by Year
in descending order

37 papers	1,211 citations	430874 18 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	772 citing authors

#	Article	IF	Citations
1	Selective Desulfurization of Dibenzothiophene by Rhodococcus erythropolis D-1. Applied and Environmental Microbiology, 1994, 60, 223-226.	3.1	237
2	Microbial Desulfurization of Organic Sulfur Compounds in Petroleum. Bioscience, Biotechnology and Biochemistry, 1999, 63, 1-9.	1.3	164
3	Purification, Characterization, and Overexpression of Flavin Reductase Involved in Dibenzothiophene Desulfurization by Rhodococcus erythropolis D-1. Applied and Environmental Microbiology, 2001, 67, 1179-1184.	3.1	76
4	Purification and characterization of dibenzothiophene (DBT) sulfone monooxygenase, an enzyme involved in DBT desulfurization, from Rhodococcus erythropolis D-1. Journal of Bioscience and Bioengineering, 1999, 88, 610-616.	2.2	60
5	Dibenzothiophene (DBT) degrading enzyme responsible for the first step of DBT desulfurization by Rhodococcus erythropolis D-1: Purification and characterization. Journal of Bioscience and Bioengineering, 1997, 83, 233-237.	0.9	58
6	A novel enzyme, 2â€²-hydroxybiphenyl-2-sulfinate desulfinase (DszB), from a dibenzothiophene-desulfurizing bacterium Rhodococcus erythropolis KA2-5-1: gene overexpression and enzyme characterization. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2002, 1598, 122-130.	2.3	53
7	Cloning and expression of the gene for a vanadium-dependent bromoperoxidase from a marine macro-alga,Corallina pilulifera1. FEBS Letters, 1998, 428, 105-110.	2.8	47
8	Crystal Structure and Desulfurization Mechanism of 2â€²-Hydroxybiphenyl-2-sulfinic Acid Desulfinase. Journal of Biological Chemistry, 2006, 281, 32534-32539.	3.4	44
9	Purification and characterization of a novel alginate lyase from the marine bacterium Cobetia sp. NAP1 isolated from brown algae. Bioscience, Biotechnology and Biochemistry, 2016, 80, 2338-2346.	1.3	41
10	Dibenzothiophene desulfurizing enzymes from moderately thermophilic bacterium Bacillus subtilis WU-S2B: purification, characterization and overexpression. Journal of Bioscience and Bioengineering, 2005, 100, 266-273.	2.2	40
11	Modification of halogen specificity of a vanadium-dependent bromoperoxidase. Protein Science, 2004, 13, 1566-1571.	7.6	37
12	Crystal structures of apoâ€DszC and FMNâ€bound DszC from RhodococcusÂerythropolis Dâ€1. FEBS Journal, 2015, 282, 3126-3135.	4.7	32
13	Improvement of 2â€²-Hydroxybiphenyl-2-sulfinate Desulfinase, an Enzyme Involved in the Dibenzothiophene Desulfurization Pathway, fromRhodococcus erythropolisKA2-5-1 by Site-Directed Mutagenesis. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2815-2821.	1.3	30
14	Expression of the vanadium-dependent bromoperoxidase gene from a marine macro-alga Corallina pilulifera in Saccharomyces cerevisiae and characterization of the recombinant enzyme. Phytochemistry, 2002, 60, 595-601.	2.9	25
15	Enzymatic Conversion of Dethiobiotin to Biotin in Cell-free Extracts of aBacillus sphaericus bioBTransformant. Bioscience, Biotechnology and Biochemistry, 1994, 58, 1738-1741.	1.3	24
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19	Crystal structures of TdsC, a dibenzothiophene monooxygenase from the thermophile Paenibacillus sp. A11-2, reveal potential for expanding its substrate selectivity. Journal of Biological Chemistry, 2017, 292, 15804-15813.	3.4	18
20	Crystal structure of dibenzothiophene sulfone monooxygenase BdsA from Bacillus subtilis WUâ€S2B. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1171-1177.	2.6	17
21	Isolation and Characterization of a Novel Fucoidan-Degrading Microorganism. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1729-1732.	1.3	14
22	Conjugative plasmid transfer from Escherichia coli is a versatile approach for genetic transformation of thermophilic Bacillus and Geobacillus species. Extremophiles, 2016, 20, 375-381.	2.3	14
23	A thiostrepton resistance gene and its mutants serve as selectable markers in Geobacillus kaustophilus HTA426. Bioscience, Biotechnology and Biochemistry, 2016, 80, 368-375.	1.3	14
24	Characterization of a Long-Lived Alginate Lyase Derived from Shewanella Species YH1. Marine Drugs, 2018, 16, 4.	4.6	14
25	Identification and characterization of the fucoidanase gene from Luteolibacter algae H18. Journal of Bioscience and Bioengineering, 2018, 126, 567-572.	2.2	12
26	Unique Plasmids Generated via pUC Replicon Mutagenesis in an Error-Prone Thermophile Derived from Geobacillus kaustophilus HTA426. Applied and Environmental Microbiology, 2015, 81, 7625-7632.	3.1	11
27	Antibiotic resistance mutations induced in growing cells of Bacillus-related thermophiles. Journal of Antibiotics, 2018, 71, 382-389.	2.0	11
28	Purification, characterization and crystallization of enzymes for dibenzothiophene desulfurization. , 2000, 9, 185-188.		10
29	Frequent Transposition of Multiple Insertion Sequences in Geobacillus kaustophilus HTA426. Frontiers in Microbiology, 2021, 12, 650461.	3.5	10
30	Thermostable Flavin Reductase That Couples with Dibenzothiophene Monooxygenase, from ThermophilicBacillussp. DSM411: Purification, Characterization, and Gene Cloning. Bioscience, Biotechnology and Biochemistry, 2004, 68, 1712-1721.	1.3	8
31	Novel Reactivity of Dibenzothiophene Monooxygenase fromBacillus subtilisWU-S2B. Bioscience, Biotechnology and Biochemistry, 2009, 73, 2128-2130.	1.3	8
32	Microbial and genomic characterization of Geobacillus thermodenitrificans OS27, a marine thermophile that degrades diverse raw seaweeds. Applied Microbiology and Biotechnology, 2018, 102, 4901-4913.	3.6	6
33	Desulfurization of dibenzothiophene derivatives by whole cells of Rhodococcus erythropolis H-2. FEMS Microbiology Letters, 1996, 142, 65-70.	1.8	5
34	A plasmid vector that directs hyperproduction of recombinant proteins in the thermophiles Geobacillus species. Extremophiles, 2020, 24, 147-156.	2.3	4
35	Occurrence of different fucoidanase genes in Flavobacterium sp. SW and enzyme characterization. Journal of Bioscience and Bioengineering, 2022, 134, 187-194.	2.2	3
36	Transcriptome and growth efficiency comparisons of recombinant thermophiles that produce thermolabile and thermostable proteins: implications for burden-based selection of thermostable proteins. Extremophiles, 2021, 25, 403-412.	2.3	2

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37	PRODUCTION AND CHARACTERIZATION OF L-FUCOSE DEHYDROGENASE FROM NEWLY ISOLATEDAcinetobactersp. STRAIN SA-134. Preparative Biochemistry and Biotechnology, 2014, 44, 382-391.	1.9	0