

Masao Fukuda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7226392/publications.pdf>

Version: 2024-02-01

50
papers

1,156
citations

430754

18
h-index

414303

32
g-index

50
all docs

50
docs citations

50
times ranked

1210
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the 450-kb Linear Plasmid in a Polychlorinated Biphenyl Degradar, <i>Rhodococcus</i> sp. Strain RHA1. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2021-2028.	1.4	90
2	Uncovering the Protocatechuate 2,3-Cleavage Pathway Genes. <i>Journal of Bacteriology</i> , 2009, 191, 6758-6768.	1.0	84
3	The 4-Oxalomesaconate Hydratase Gene, Involved in the Protocatechuate 4,5-Cleavage Pathway, Is Essential to Vanillate and Syringate Degradation in <i>Sphingomonas paucimobilis</i> SYK-6. <i>Journal of Bacteriology</i> , 2000, 182, 6950-6957.	1.0	71
4	Degradation of anaerobic reductive dechlorination products of Aroclor 1242 by four aerobic bacteria. <i>Biodegradation</i> , 1999, 10, 363-371.	1.5	70
5	Isolation and characterization of <i>Streptomyces</i> , <i>Actinoplanes</i> , and <i>Methylibium</i> strains that are involved in degradation of natural rubber and synthetic poly(cis-1,4-isoprene). <i>Enzyme and Microbial Technology</i> , 2011, 49, 526-531.	1.6	60
6	Genetic and Biochemical Characterization of 4-Carboxy-2-Hydroxymuconate-6-Semialdehyde Dehydrogenase and Its Role in the Protocatechuate 4,5-Cleavage Pathway in <i>Sphingomonas paucimobilis</i> SYK-6. <i>Journal of Bacteriology</i> , 2000, 182, 6651-6658.	1.0	57
7	Multiplicity of Aromatic Ring Hydroxylation Dioxygenase Genes in a Strong PCB Degradar, <i>Rhodococcus</i> sp. Strain RHA1 Demonstrated by Denaturing Gradient Gel Electrophoresis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1907-1911.	0.6	49
8	Introduction of chemically labile substructures into <i>Arabidopsis</i> lignin through the use of LigD, the C1- α -dehydrogenase from <i>Sphingobium</i> sp. strain <i>scp</i> SYK-6. <i>Plant Biotechnology Journal</i> , 2015, 13, 821-832.	4.1	45
9	A bacterial aromatic aldehyde dehydrogenase critical for the efficient catabolism of syringaldehyde. <i>Scientific Reports</i> , 2017, 7, 44422.	1.6	43
10	<i>Rhizobacter gummiphilus</i> sp. nov., a rubber-degrading bacterium isolated from the soil of a botanical garden in Japan. <i>Journal of General and Applied Microbiology</i> , 2013, 59, 199-205.	0.4	39
11	Development of downflow hanging sponge (DHS) reactor as post treatment of existing combined anaerobic tank treating natural rubber processing wastewater. <i>Water Science and Technology</i> , 2017, 75, 57-68.	1.2	38
12	Performance evaluation of the pilot scale upflow anaerobic sludge blanket “Downflow hanging sponge system for natural rubber processing wastewater treatment in South Vietnam. <i>Bioresource Technology</i> , 2017, 237, 204-212.	4.8	36
13	Three-Component <i>O</i> -Demethylase System Essential for Catabolism of a Lignin-Derived Biphenyl Compound in <i>Sphingobium</i> sp. Strain SYK-6. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7142-7153.	1.4	35
14	Three-dimensional Structure of 2,3-Dihydroxybiphenyl Dioxygenase (BphC enzyme) from <i>Pseudomonas</i> sp. Strain KKS102 Having Polychlorinated Biphenyl (PCB)-Degrading Activity.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1995, 71, 32-35.	1.6	31
15	Characterization and functional expression of a rubber degradation gene of a <i>Nocardia</i> degrader from a rubber-processing factory. <i>Journal of Bioscience and Bioengineering</i> , 2017, 123, 412-418.	1.1	31
16	Identification of natural rubber degradation gene in <i>Rhizobacter gummiphilus</i> NS21. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 614-620.	0.6	31
17	Development of a “UASB” DHS system for natural rubber processing wastewater treatment. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 459-465.	1.2	21
18	Membrane-Associated Glucose-Methanol-Choline Oxidoreductase Family Enzymes PhcC and PhcD Are Essential for Enantioselective Catabolism of Dehydrodiconiferyl Alcohol. <i>Applied and Environmental Microbiology</i> , 2015, 81, 8022-8036.	1.4	20

#	ARTICLE	IF	CITATIONS
19	Degradation of polychlorinated biphenyls by a <i>Maitake</i> ™ mushroom, <i>Grifola frondosa</i> . <i>Biotechnology Letters</i> , 1999, 21, 27-31.	1.1	19
20	Biodegradation of natural rubber and deproteinized natural rubber by enrichment bacterial consortia. <i>Biodegradation</i> , 2020, 31, 303-317.	1.5	19
21	Molecular Mechanism of Strict Substrate Specificity of an Extradiol Dioxygenase, DesB, Derived from <i>Spingobium</i> sp. SYK-6. <i>PLoS ONE</i> , 2014, 9, e92249.	1.1	19
22	Structural alteration of linear plasmids encoding the genes for polychlorinated biphenyl degradation in <i>Rhodococcus</i> strain RHA1. <i>Antonie Van Leeuwenhoek</i> , 1998, 74, 169-173.	0.7	17
23	Crystallization and preliminary crystallographic analysis of a 2,3-dihydroxybiphenyl dioxygenase from <i>Pseudomonas</i> sp. strain KKS102 having polychlorinated biphenyl (PCB)-degrading activity. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 22, 284-286.	1.5	16
24	Regulation of vanillate and syringate catabolism by a MarR-type transcriptional regulator DesR in <i>Spingobium</i> sp. SYK-6. <i>Scientific Reports</i> , 2019, 9, 18036.	1.6	16
25	Three-dimensional Structure of Microbial 2-Hydroxyl-6-oxo-6-phenylhexa-2,4-dienoic Acid (HPDA) Hydrolase (BphD Enzyme) from <i>Rhodococcus</i> sp. Strain RHA1, in the PCB Degradation Pathway.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1997, 73, 154-157.	1.6	14
26	Characterization and Transcriptional Regulation of n-Alkane Hydroxylase Gene Cluster of <i>Rhodococcus jostii</i> RHA1. <i>Microorganisms</i> , 2019, 7, 479.	1.6	14
27	Amino acid residues critical for DNA binding and inducer recognition in CbnR, a LysR-type transcriptional regulator from <i>Cupriavidus necator</i> NH9. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2119-2129.	0.6	13
28	Identification and Characterization of Uptake Systems for Glucose and Fructose in <i>Rhodococcus jostii</i> RHA1. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2011, 20, 125-136.	1.0	12
29	11-Hydroxylation of Protoberberine by the Novel Berberine-Utilizing Aerobic Bacterium <i>Spingobium</i> sp. Strain BD3100. <i>Journal of Natural Products</i> , 2015, 78, 2880-2886.	1.5	12
30	Growth inhibition of <i>Rhodococcus</i> sp. strain RHA1 in the course of PCB transformation. <i>Biotechnology Letters</i> , 1996, 18, 1193-1198.	1.1	11
31	13-Resorcyate Catabolic-Pathway Genes in the Soil Actinomycete <i>Rhodococcus jostii</i> RHA1. <i>Applied and Environmental Microbiology</i> , 2015, 81, 7656-7665.	1.4	11
32	Impact of aluminum chloride on process performance and microbial community structure of granular sludge in an upflow anaerobic sludge blanket reactor for natural rubber processing wastewater treatment. <i>Water Science and Technology</i> , 2016, 74, 500-507.	1.2	10
33	Identification of novel extracellular protein for PCB/biphenyl metabolism in <i>Rhodococcus jostii</i> RHA1. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1012-1019.	0.6	10
34	Catabolic potential of multiple PCB transformation systems in <i>Rhodococcus</i> sp. strain RHA1. <i>Biotechnology Letters</i> , 1996, 18, 1305-1308.	1.1	9
35	Draft Genome Sequences of <i>Spingobium</i> sp. Strain TCM1 and <i>Spingomonas</i> sp. Strain TDK1, Haloalkyl Phosphate Flame Retardant- and Plasticizer-Degrading Bacteria. <i>Genome Announcements</i> , 2016, 4, .	0.8	8
36	Thermodynamics of the Thermal Denaturation of Acid Molten Globule State of Cytochrome <i>c</i> Indicate a Reversible High-Temperature Oligomerization Process. <i>Biochemistry</i> , 2017, 56, 2372-2378.	1.2	8

#	ARTICLE	IF	CITATIONS
37	2,3-Dihydroxybenzoate meta-Cleavage Pathway is Involved in o-Phthalate Utilization in <i>Pseudomonas</i> sp. strain PTH10. <i>Scientific Reports</i> , 2019, 9, 1253.	1.6	8
38	Characterization of polychlorinated biphenyl degradation in a fermentor by <i>Comamonas testosteroni</i> strain TK102.. <i>Japanese Journal of Water Treatment Biology</i> , 1998, 34, 57-65.	0.2	8
39	Ammonia Stripping from High Ammonia-Containing Wastewater by Downflow Hanging Sponge (DHS) Reactor. <i>Journal of Water and Environment Technology</i> , 2016, 14, 303-307.	0.3	7
40	Common origin of methylenedioxy ring degradation and demethylation in bacteria. <i>Scientific Reports</i> , 2017, 7, 7422.	1.6	6
41	Ecological impact assessment of a bioaugmentation site on remediation of chlorinated ethylenes by multi-omics analysis. <i>Journal of General and Applied Microbiology</i> , 2019, 65, 225-233.	0.4	6
42	Complete genome sequence of natural rubber-degrading, gram-negative bacterium, <i>Rhizobacter gummiphilus</i> strain NS21T. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 22, e00332.	2.1	6
43	Characterization of the genes responsible for rubber degradation in <i>Actinoplanes</i> sp. strain OR16. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7367-7376.	1.7	6
44	Draft Genome Sequence of <i>Comamonas thiooxydans</i> Strain PHE2-6 (NBRC 110656), a Chlorinated-Ethene-Degrading Bacterium. <i>Genome Announcements</i> , 2016, 4, .	0.8	5
45	Characteristics of greenhouse gas emissions from an anaerobic wastewater treatment system in a natural rubber processing factory. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2954-2961.	1.2	5
46	Draft Genome Sequence of a Chlorinated-Ethene Degradator, <i>Cupriavidus necator</i> Strain PHE3-6 (NBRC 110655). <i>Genome Announcements</i> , 2016, 4, .	0.8	3
47	Identification and transcriptional analysis of poly(cis-1,4-isoprene) degradation gene in <i>Rhodococcus</i> sp. strain RDE2. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 452-458.	1.1	3
48	Differentiation of industrial sake yeast strains by a loop-mediated isothermal amplification method that targets the PHO3 gene. <i>Journal of Bioscience and Bioengineering</i> , 2014, 118, 661-664.	1.1	2
49	Biphenyl degradation by recombinant photosynthetic cyanobacterium <i>Synechocystis</i> sp. PCC6803 in an oligotrophic environment using unphysiological electron transfer. <i>Biochemical Journal</i> , 2019, 476, 3615-3630.	1.7	2
50	Molecular Mechanism of the Redox-dependent Interaction between NADH-dependent Ferredoxin Reductase and Rieske-type Ferredoxin. <i>Nihon Kessho Gakkaishi</i> , 2008, 50, 341-347.	0.0	0