

Jong-hyun Jung

List of Publications by Year in descending order

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69
papers

1,390
citations

304743

22
h-index

395702

33
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70
all docs

70
docs citations

70
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	Conservation and diversity of radiation and oxidative stress resistance mechanisms in <i>Deinococcus</i> species. <i>FEMS Microbiology Reviews</i> , 2019, 43, 19-52.	8.6	141
2	Enzymatic synthesis of salicin glycosides through transglycosylation catalyzed by amylosucrases from <i>Deinococcus geothermalis</i> and <i>Neisseria polysaccharea</i> . <i>Carbohydrate Research</i> , 2009, 344, 1612-1619.	2.3	78
3	High-yield enzymatic bioconversion of hydroquinone to $\hat{1}\pm$ -arbutin, a powerful skin lightening agent, by amylosucrase. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1189-1197.	3.6	67
4	Biosynthesis of (+)-catechin glycosides using recombinant amylosucrase from <i>Deinococcus geothermalis</i> DSM 11300. <i>Enzyme and Microbial Technology</i> , 2011, 49, 246-253.	3.2	58
5	Biotechnological production of arbutins ($\hat{1}\pm$ - and $\hat{1}^2$ -arbutins), skin-lightening agents, and their derivatives. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 1417-1425.	3.6	53
6	Isomaltulose production via yeast surface display of sucrose isomerase from <i>Enterobacter</i> sp. FMB-1 on <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2011, 102, 9179-9184.	9.6	48
7	One-pot bioconversion of sucrose to trehalose using enzymatic sequential reactions in combined cross-linked enzyme aggregates. <i>Bioresource Technology</i> , 2013, 130, 801-804.	9.6	44
8	Structural and functional analysis of substrate recognition by the 250s loop in amyloamylase from <i>Thermus brockianus</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 633-644.	2.6	43
9	Highly selective biotransformation of arbutin to arbutin- $\hat{1}\pm$ -glucoside using amylosucrase from <i>Deinococcus geothermalis</i> DSM 11300. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009, 60, 113-118.	1.8	38
10	<i>Methanocaldococcus bathoardescens</i> sp. nov., a hyperthermophilic methanogen isolated from a volcanically active deep-sea hydrothermal vent. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 1280-1283.	1.7	37
11	Molecular Cloning and Functional Expression of a New Amylosucrase from <i>Alteromonas macleodii</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1505-1512.	1.3	36
12	Biosynthesis of Glucosyl Glycerol, a Compatible Solute, Using Intermolecular Transglycosylation Activity of Amylosucrase from <i>Methylobacillus flagellatus</i> KT. <i>Applied Biochemistry and Biotechnology</i> , 2014, 173, 904-917.	2.9	35
13	Antioxidant Activities of an Exopolysaccharide (DeinoPol) Produced by the Extreme Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . <i>Scientific Reports</i> , 2020, 10, 55.	3.3	33
14	Microbial production of palatinose through extracellular expression of a sucrose isomerase from <i>Enterobacter</i> sp. FMB-1 in <i>Lactococcus lactis</i> MG1363. <i>Bioresource Technology</i> , 2010, 101, 8828-8833.	9.6	32
15	<i>Thermococcus paralvinellae</i> sp. nov. and <i>Thermococcus cleftensis</i> sp. nov. of hyperthermophilic heterotrophs from deep-sea hydrothermal vents. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3655-3659.	1.7	32
16	Maltose-forming $\hat{1}\pm$ -amylase from the hyperthermophilic archaeon <i>Pyrococcus</i> sp. ST04. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 2121-2131.	3.6	29
17	Bioinformatic and biochemical analysis of a novel maltose-forming $\hat{1}\pm$ -amylase of the GH57 family in the hyperthermophilic archaeon <i>Thermococcus</i> sp. CL1. <i>Enzyme and Microbial Technology</i> , 2014, 60, 9-15.	3.2	29
18	The three catalases in <i>Deinococcus radiodurans</i> : Only two show catalase activity. <i>Biochemical and Biophysical Research Communications</i> , 2016, 469, 443-448.	2.1	29

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19	An unusual chimeric amylosucrase generated by domain-swapping mutagenesis. <i>Enzyme and Microbial Technology</i> , 2016, 86, 7-16.	3.2	24
20	Functional Expression of Amylosucrase, a Glucan-Synthesizing Enzyme, from <i>Arthrobacter chlorophenolicus</i> A6. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1253-1257.	2.1	24
21	Engineering Synthetic Multistress Tolerance in <i>Escherichia coli</i> by Using a <i>Deinococcus</i> Response Regulator, DR1558. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1154-1166.	3.1	23
22	Molecular cloning and functional characterization of a sucrose isomerase (isomaltulose synthase) gene from <i>Enterobacter</i> sp. FMB-1. <i>Journal of Applied Microbiology</i> , 2009, 107, 1119-1130.	3.1	22
23	Production of Hydrogen from α -1,4- and β -1,4-Linked Saccharides by Marine Hyperthermophilic Archaea. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3169-3173.	3.1	21
24	<i>Pyrodictium delaneyi</i> sp. nov., a hyperthermophilic autotrophic archaeon that reduces Fe(III) oxide and nitrate. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3372-3376.	1.7	21
25	Acceptor Specificity of Amylosucrase from <i>Deinococcus radiopugnans</i> and Its Application for Synthesis of Rutin Derivatives. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 1845-1854.	2.1	21
26	Molecular cloning and expression of amylosucrase from highly radiation-resistant <i>Deinococcus radiopugnans</i> . <i>Food Science and Biotechnology</i> , 2014, 23, 2007-2012.	2.6	19
27	Molecular Cloning of the Amylosucrase Gene from a Moderate Thermophilic Bacterium <i>Deinococcus Geothermalis</i> and Analysis of its Dual Enzyme Activity. , 2008, , 125-140.		18
28	PprM, a Cold Shock Domain-Containing Protein from <i>Deinococcus radiodurans</i> , Confers Oxidative Stress Tolerance to <i>Escherichia coli</i> . <i>Frontiers in Microbiology</i> , 2016, 7, 2124.	3.5	18
29	Characterization of a novel extracellular α -amylase from <i>Ruminococcus bromii</i> ATCC 27255 with neopullulanase-like activity. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 605-614.	7.5	18
30	Complete Genome Sequence of the Hyperthermophilic Archaeon <i>Pyrococcus</i> sp. Strain ST04, Isolated from a Deep-Sea Hydrothermal Sulfide Chimney on the Juan de Fuca Ridge. <i>Journal of Bacteriology</i> , 2012, 194, 4434-4435.	2.2	16
31	Development of Oxytolerant <i>Salmonella typhimurium</i> Using Radiation Mutation Technology (RMT) for Cancer Therapy. <i>Scientific Reports</i> , 2020, 10, 3764.	3.3	16
32	Improved polymerization activity of <i>Deinococcus geothermalis</i> amylosucrase by semi-rational design: Effect of loop flexibility on the polymerization reaction. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 177-185.	7.5	14
33	Development of new assay for sucrose phosphorylase and its application to the characterization of <i>Bifidobacterium longum</i> SJ32 sucrose phosphorylase. <i>Food Science and Biotechnology</i> , 2011, 20, 513-518.	2.6	13
34	Probiotic properties of lactic acid bacteria isolated from Korean rice wine Makgeolli. <i>Food Science and Biotechnology</i> , 2015, 24, 1761-1766.	2.6	13
35	GH57 amylopullulanase from <i>Desulfurococcus amylolyticus</i> JCM 9188 can make highly branched cyclodextrin via its transglycosylation activity. <i>Enzyme and Microbial Technology</i> , 2018, 114, 15-21.	3.2	13
36	Novel enzymatic production of trehalose from sucrose using amylosucrase and maltooligosyltrehalose synthase-trehalohydrolase. <i>World Journal of Microbiology and Biotechnology</i> , 2011, 27, 2851-2856.	3.6	12

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37	Complete Genome Sequence of the Hyperthermophilic Archaeon <i>Thermococcus</i> sp. Strain CL1, Isolated from a <i>Paralvinella</i> sp. Polychaete Worm Collected from a Hydrothermal Vent. <i>Journal of Bacteriology</i> , 2012, 194, 4769-4770.	2.2	12
38	Identification and Characterization of an Archaeal Kojibiose Catabolic Pathway in the Hyperthermophilic <i>Pyrococcus</i> sp. Strain ST04. <i>Journal of Bacteriology</i> , 2014, 196, 1122-1131.	2.2	12
39	Molecular Cloning and Enzymatic Characterization of Cyclomaltodextrinase from Hyperthermophilic Archaeon <i>Thermococcus</i> sp. CL1. <i>Journal of Microbiology and Biotechnology</i> , 2013, 23, 1060-1069.	2.1	12
40	Structural features underlying the selective cleavage of a novel exo-type maltose-forming amylase from <i>Pyrococcus</i> sp. ST04. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014, 70, 1659-1668.	2.5	10
41	Complete genome sequence of <i>Hymenobacter swuensis</i> , an ionizing-radiation resistant bacterium isolated from mountain soil. <i>Journal of Biotechnology</i> , 2014, 178, 65-66.	3.8	10
42	Structural features of Cas2 from <i>Thermococcus onnurineus</i> in CRISPR-Cas system type IV. <i>Protein Science</i> , 2016, 25, 1890-1897.	7.6	10
43	Complete genome sequence of <i>Planococcus</i> sp. PAMC21323 isolated from Antarctica and its metabolic potential to detoxify pollutants. <i>Standards in Genomic Sciences</i> , 2018, 13, 31.	1.5	10
44	Novel functions of peroxiredoxin Q from <i>Deinococcus radiodurans</i> R1 as a peroxidase and a molecular chaperone. <i>FEBS Letters</i> , 2019, 593, 219-229.	2.8	10
45	<i>Spirosoma taeanense</i> sp. nov., a radiation resistant bacterium isolated from a coastal sand dune. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 151-159.	1.7	10
46	Characterization of the starch degradation activity from newly isolated <i>Rhizopus oryzae</i> WCS-1 and mixed cultures with <i>Saccharomyces cerevisiae</i> for efficient ethanol production from starch. <i>Food Science and Biotechnology</i> , 2015, 24, 1805-1810.	2.6	8
47	<i>Hymenobacter baengnokdamensis</i> sp. nov., Isolated from the Soil of a Crater Lake in Korea. <i>Current Microbiology</i> , 2020, 77, 4167-4173.	2.2	8
48	Direct and simple detection of recombinant proteins from cell lysates using differential scanning fluorimetry. <i>Analytical Biochemistry</i> , 2014, 444, 75-80.	2.4	7
49	Complete genome sequence of hyperthermophilic archaeon <i>Thermococcus</i> sp. ES1. <i>Journal of Biotechnology</i> , 2014, 174, 14-15.	3.8	7
50	Crystal structure of the AhpD-like protein DR1765 from <i>Deinococcus radiodurans</i> R1. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 444-449.	2.1	7
51	Effects of Conserved Wedge Domain Residues on DNA Binding Activity of <i>Deinococcus radiodurans</i> RecG Helicase. <i>Frontiers in Genetics</i> , 2021, 12, 634615.	2.3	7
52	<i>Hymenobacter taeanensis</i> sp. nov., radiation resistant bacterium isolated from coastal sand dune. <i>Antonie Van Leeuwenhoek</i> , 2021, 114, 1585-1593.	1.7	7
53	Structural and Biochemical Characterization of Thioredoxin-2 from <i>Deinococcus radiodurans</i> . <i>Antioxidants</i> , 2021, 10, 1843.	5.1	7
54	Differentiation of lactic acid bacteria based on RFLP analysis of the <i>tuf</i> gene. <i>Food Science and Biotechnology</i> , 2012, 21, 911-915.	2.6	6

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55	Enzymatic analysis of truncation mutants of a type II pullulanase from <i>Bifidobacterium adolescentis</i> P2P3, a resistant starch-degrading gut bacterium. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1340-1349.	7.5	6
56	Diversity of Lactic Acid Bacteria (LAB) in Makgeolli and Their Production of $\hat{1}^3$ -Aminobutyric Acid. <i>Korean Journal of Food Science and Technology</i> , 2015, 47, 204-210.	0.3	5
57	Functional characterization of the sucrose isomerase responsible for trehalulose production in plant-associated <i>Pectobacterium</i> species. <i>Enzyme and Microbial Technology</i> , 2014, 55, 100-106.	3.2	4
58	Crystal structure of the highly radiation-inducible DinB/YfiT superfamily protein DR0053 from <i>Deinococcus radiodurans</i> R1. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 354-359.	2.1	4
59	Atypical Bacilliredoxin AbxC Plays a Role in Responding to Oxidative Stress in Radiation-Resistant Bacterium <i>Deinococcus radiodurans</i> . <i>Antioxidants</i> , 2021, 10, 1148.	5.1	4
60	The bifidogenic effects and dental plaque deformation of non-digestible isomaltooligosaccharides synthesized by dextransucrase and alternansucrase. <i>Enzyme and Microbial Technology</i> , 2022, 153, 109955.	3.2	4
61	Broad substrate specificity of a hyperthermophilic $\hat{1}\pm$ -glucosidase from <i>Pyrobaculum arsenaticum</i> . <i>Food Science and Biotechnology</i> , 2016, 25, 1665-1669.	2.6	3
62	Characterization of divergent pseudo-sucrose isomerase from <i>Azotobacter vinelandii</i> : Deciphering the absence of sucrose isomerase activity. <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 115-121.	2.1	3
63	Complete genome sequence of the hyperthermophilic methanogen <i>Methanocaldococcus bathoardescens</i> JH146T isolated from the basalt seafloor. <i>Marine Genomics</i> , 2015, 24, 229-230.	1.1	2
64	Functional Roles of Homologous Recombination and Non-Homologous End Joining in DNA Damage Response and Microevolution in <i>Cryptococcus neoformans</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 566.	3.5	2
65	Fluorescence detection of the transglycosylation activity of amylosucrase. <i>Analytical Biochemistry</i> , 2017, 532, 19-25.	2.4	2
66	Lack of the Bacterial Phytochrome Protein Decreases <i>Deinococcus radiodurans</i> Resistance to Mitomycin C. <i>Frontiers in Microbiology</i> , 2021, 12, 659233.	3.5	1
67	Prevalence, Diversity and UV-Light Inducibility Potential of Prophages in <i>Bacillus subtilis</i> and Their Possible Roles in Host Properties. <i>Viruses</i> , 2022, 14, 483.	3.3	1
68	Essential Roles of Ribonucleotide Reductases under DNA Damage and Replication Stresses in <i>Cryptococcus neoformans</i> . <i>Microbiology Spectrum</i> , 0, , .	3.0	1
69	Molecular Cloning and Characterization of Maltogenic Amylase from <i>Deinococcus geothermalis</i> . <i>Korean Journal of Food Science and Technology</i> , 2011, 43, 369-374.	0.3	0