Keitarou Kimura

List of Publications by Year
in descending order

49 papers	1,102 citations	430754 18 h-index	414303 32 g-index
49 all docs	49 docs citations	49 times ranked	1124 citing authors

#	Article	IF	Citations
1	Phylogenetic Analysis of Bacillus subtilis Strains Applicable to Natto (Fermented Soybean) Production. Applied and Environmental Microbiology, 2011, 77, 6463-6469.	1.4	112
2	Characterization of Poly-Î³-Glutamate Hydrolase Encoded by a Bacteriophage Genome: Possible Role in Phage Infection of Bacillus subtilis Encapsulated with Poly-Î³-Glutamate. Applied and Environmental Microbiology, 2003, 69, 2491-2497.	1.4	104
3	Characterization of Bacillus subtilis Â-glutamyltransferase and its involvement in the degradation of capsule poly-Â-glutamate. Microbiology (United Kingdom), 2004, 150, 4115-4123.	0.7	103
4	Mining biomass-degrading genes through Illumina-based de novo sequencing and metagenomic analysis of free-living bacteria in the gut of the lower termite Coptotermes gestroi harvested in Vietnam. Journal of Bioscience and Bioengineering, 2014, 118, 665-671.	1.1	77
5	The Inactive Form of a Yeast Casein Kinase I Suppresses the Secretory Defect of the sec12 Mutant. Journal of Biological Chemistry, 1999, 274, 3804-3810.	1.6	65
6	Roles and regulation of the glutamate racemase isogenes, racE and yrpC, in Bacillus subtilis. Microbiology (United Kingdom), 2004, 150, 2911-2920.	0.7	47
7	Trends in the application of Bacillus in fermented foods. Current Opinion in Biotechnology, 2019, 56, 36-42.	3.3	46
8	Characterization and a role of Pseudomonas aeruginosa spermidine dehydrogenase in polyamine catabolism. Microbiology (United Kingdom), 2006, 152, 2265-2272.	0.7	39
9	Expression of the<i>pgsB</i>Encoding the Poly-gamma-<scp>DL</scp>-glutamate Synthetase of<i>Bacillus subtilis (natto)</i>. Bioscience, Biotechnology and Biochemistry, 2009, 73, 1149-1155.	0.6	37
10	Mutations Suppressing the Loss of DegQ Function in Bacillus subtilis (natto) Poly-Î³-Glutamate Synthesis. Applied and Environmental Microbiology, 2011, 77, 8249-8258.	1.4	36
11	Whole-Genome Sequencing and Comparative Genome Analysis of Bacillus subtilis Strains Isolated from Non-Salted Fermented Soybean Foods. PLoS ONE, 2015, 10, e0141369.	1.1	32
12	Injury and recovery of Escherichia coli ATCC25922 cells treated by high hydrostatic pressure at 400â€"600ÂMPa. Journal of Bioscience and Bioengineering, 2017, 123, 698-706.	1.1	30
13	Bacterial Injury Induced by High Hydrostatic Pressure. Food Engineering Reviews, 2021, 13, 442-453.	3.1	23
14	Extracellular production of cycloisomaltooligosaccharide glucanotransferase and cyclodextran by a protease-deficient Bacillus subtilis hostâ€"vector system. Applied Microbiology and Biotechnology, 2012, 93, 1877-1884.	1.7	22
15	Characterization of <i>Bacillus subtilis </i>Strains Isolated from Fermented Soybean Foods in Southeast Asia: Comparison with <i>B</i>. <i>subtilis </i>(<i>natto</i>) Starter Strains. Japan Agricultural Research Quarterly, 2002, 36, 169-175.	0.1	21
16	Dynamics of Radioactive Cesium (134Cs and 137Cs) during the Milling of Contaminated Japanese Wheat Cultivars and during the Cooking of Udon Noodles Made from Wheat Flour. Journal of Food Protection, 2012, 75, 1823-1828.	0.8	21
17	Biochemical characterization of a novel cycloisomaltooligosaccharide glucanotransferase from Paenibacillus sp. 598K. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 919-924.	1.1	21
18	Paenibacillus sp. 598K 6-Î±-glucosyltransferase is essential for cycloisomaltooligosaccharide synthesis from Î±-(1Ââ†'Â4)-glucan. Applied Microbiology and Biotechnology, 2017, 101, 4115-4128.	1.7	19

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19	Genomic analysis of <i>Bacillus subtilis</i> lytic bacteriophage Ï•NIT1 capable of obstructing natto fermentation carrying genes for the capsule-lytic soluble enzymes poly-Î³-glutamate hydrolase and levanase. Bioscience, Biotechnology and Biochemistry, 2017, 81, 135-146.	0.6	19
20	Isomaltooligosaccharide-binding structure of <i>Paenibacillus</i> sp. 598K cycloisomaltooligosaccharide glucanotransferase. Bioscience Reports, 2017, 37, .	1.1	16
21	Enzymatic Degradation of Poly-Gamma-Glutamic Acid. Microbiology Monographs, 2010, , 95-117.	0.3	15
22	Determination and Characterization of IS<i>4Bsu</i>1-Insertion Loci and Identification of a New Insertion Sequence Element of the IS<i>256</i>Family in a Natto Starter. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2458-2464.	0.6	13
23	Characterization of high hydrostatic pressure-injured <i>Bacillus subtilis</i> cells*. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1235-1240.	0.6	13
24	Removal of Radioactive Cesium (134Cs plus 137Cs) from Low-Level Contaminated Water by Charcoal and Broiler Litter Biochar. Food Science and Technology Research, 2014, 20, 1183-1189.	0.3	12
25	Nuclear magnetic resonance- and gas chromatography/mass spectrometry-based metabolomic characterization of water-soluble and volatile compound profiles in cabbage vinegar. Journal of Bioscience and Bioengineering, 2018, 126, 53-62.	1.1	12
26	Ribosome Reconstruction during Recovery from High-Hydrostatic-Pressure-Induced Injury in Bacillus subtilis. Applied and Environmental Microbiology, 2019, 86, .	1.4	12
27	Development of a rifampicin-resistant Bacillus subtilis strain for natto-fermentation showing enhanced exoenzyme production. Journal of Bioscience and Bioengineering, 2013, 115, 654-657.	1.1	11
28	Distribution of Radioactive Cesium (134Cs Plus 137Cs) in a Contaminated Japanese Soybean Cultivar during the Preparation of Tofu, Natto, and Nimame (Boiled Soybean). Journal of Food Protection, 2013, 76, 1021-1026.	0.8	11
29	Frequency of the Insertion Sequence IS4Bsu1amongBacillus subtilisStrains Isolated from Fermented Soybean Foods in Southeast Asia. Bioscience, Biotechnology and Biochemistry, 2002, 66, 1994-1996.	0.6	10
30	[6] Purification and assay of yeast Sarlp. Methods in Enzymology, 1995, 257, 41-49.	0.4	9
31	Evidence for cycloisomaltooligosaccharide production from starch by Bacillus circulans T-3040. Applied Microbiology and Biotechnology, 2014, 98, 3947-3954.	1.7	8
32	Poly-Î³-glutamic acid production of Bacillus subtilis (natto) in the absence of DegQ: A gain-of-function mutation in yabJ gene. Journal of Bioscience and Bioengineering, 2019, 128, 690-696.	1.1	8
33	Crystal structure of bacteriophage Ï•NIT1 zinc peptidase PghP that hydrolyzes Î³â€glutamyl linkage of bacterial polyâ€Î³â€glutamate. Proteins: Structure, Function and Bioinformatics, 2012, 80, 722-732.	1.5	7
34	Molecular engineering of cycloisomaltooligosaccharide glucanotransferase from Bacillus circulans T-3040: structural determinants for the reaction product size and reactivity. Biochemical Journal, 2015, 467, 259-270.	1.7	7
35	Poly-Î³-glutamic Acid Production by <i>Bacillus subtilis</i> (natto) under High Salt Conditions. Japan Agricultural Research Quarterly, 2018, 52, 249-253.	0.1	7
36	A novel intracellular dextranase derived from Paenibacillus sp. 598K with an ability to degrade cycloisomaltooligosaccharides. Applied Microbiology and Biotechnology, 2019, 103, 6581-6592.	1.7	7

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37	A Survey of Phage Contamination in Natto-producing Factories and Development of Phage-resistant <i>Bacillus subtilis</i> (natto) Strains. Food Science and Technology Research, 2018, 24, 485-492.	0.3	6
38	Metabolome analysis of Escherichia coli ATCC25922 cells treated with high hydrostatic pressure at 400 and 600ÂMPa. Journal of Bioscience and Bioengineering, 2018, 126, 611-616.	1.1	6
39	Molecular Cloning and Expression Patterns of Cu/Zn-Superoxide Dismutases in Developing Soybean Seeds. Bioscience, Biotechnology and Biochemistry, 1998, 62, 1018-1021.	0.6	5
40	Crystallization and preliminary crystallographic analysis of poly-Î³-glutamate hydrolase from bacteriophage Î¦NIT1. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 913-916.	0.7	5
41	Effects of Solution pH and Ions on Suicidal Germination ofÂ<i>Bacillus subtilis</i>ÂSpores Induced by Medium High Temperature-Medium High Hydrostatic Pressure Treatment. Biocontrol Science, 2019, 24, 167-172.	0.2	5
42	Loss of poly-.GAMMA.-glutamic Acid Synthesis of Bacillus subtilis (natto) Due to IS4Bsu1 Translocation to swrA Gene. Food Science and Technology Research, 2011, 17, 447-451.	0.3	4
43	Black Soybean Fermentation using a rpoB Mutant Strain of Bacillus subtilis (natto). Journal of the Japanese Society for Food Science and Technology, 2013, 60, 577-581.	0.1	3
44	Investigation of Extraction Rate of Radioactive Cesium from Barley to Barley Tea. Journal of the Japanese Society for Food Science and Technology, 2013, 60, 25-29.	0.1	3
45	Xylan-mediated aggregation of Lactobacillus brevis and its relationship with the surface properties and mucin-mediated aggregation of the bacteria. Bioscience, Biotechnology and Biochemistry, 2014, 78, 2120-2127.	0.6	3
46	Flavor Development During Natto Fermentation. Journal of the Japanese Society for Food Science and Technology, 2017, 64, 379-384.	0.1	3
47	Injury and Recovery in Bacterial Inactivation Induced by High Hydrostatic Pressure. Journal of the Japanese Society for Food Science and Technology, 2018, 65, 154-162.	0.1	3
48	Natto-fermenting <i>Bacillus subtilis</i> Strains, -Phylogenetic and Epidemiological Studies-. Journal of the Brewing Society of Japan, 2011, 106, 756-762.	0.1	2
49	Tetramer formation of <i>Bacillus subtilis</i> YabJ protein that belongs to YjgF/YER057c/UK114 family. Bioscience, Biotechnology and Biochemistry, 2021, 85, 297-306.	0.6	2