

Hajime Kobayashi

List of Publications by Year in descending order

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48
papers

3,182
citations

201674

27
h-index

214800

47
g-index

48
all docs

48
docs citations

48
times ranked

3208
citing authors

#	ARTICLE	IF	CITATIONS
1	How rhizobial symbionts invade plants: the Sinorhizobium "Medicago model. <i>Nature Reviews Microbiology</i> , 2007, 5, 619-633.	28.6	781
2	Molecular Determinants of a Symbiotic Chronic Infection. <i>Annual Review of Genetics</i> , 2008, 42, 413-441.	7.6	326
3	Bioelectrochemical Analyses of the Development of a Thermophilic Biocathode Catalyzing Electromethanogenesis. <i>Environmental Science & Technology</i> , 2015, 49, 1225-1232.	10.0	150
4	NopP, a phosphorylated effector of <i>Rhizobium</i> sp. strain NGR234, is a major determinant of nodulation of the tropical legumes <i>Flemingia congesta</i> and <i>Tephrosia vogelii</i> . <i>Molecular Microbiology</i> , 2005, 57, 1304-1317.	2.5	147
5	Flavonoids induce temporal shifts in gene-expression of nod-box controlled loci in <i>Rhizobium</i> sp. NGR234. <i>Molecular Microbiology</i> , 2004, 51, 335-347.	2.5	124
6	<i>Rhizobia</i> utilize pathogen-like effector proteins during symbiosis. <i>Molecular Microbiology</i> , 2009, 71, 92-106.	2.5	123
7	Flavonoids, NodD1, NodD2, and Nod-Box NB15 Modulate Expression of the γ wEFG Locus That Is Required for Indole-3-Acetic Acid Synthesis in <i>Rhizobium</i> sp. strain NGR234. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 1153-1161.	2.6	111
8	Characterization of NopP, a Type III Secreted Effector of <i>Rhizobium</i> sp. Strain NGR234. <i>Journal of Bacteriology</i> , 2004, 186, 4774-4780.	2.2	89
9	TtsI regulates symbiotic genes in <i>Rhizobium</i> species NGR234 by binding to tts boxes. <i>Molecular Microbiology</i> , 2008, 68, 736-748.	2.5	77
10	BacA, an ABC Transporter Involved in Maintenance of Chronic Murine Infections with <i>Mycobacterium tuberculosis</i> . <i>Journal of Bacteriology</i> , 2009, 191, 477-485.	2.2	76
11	Hybrid solar-to-methane conversion system with a Faradaic efficiency of up to 96%. <i>Nano Energy</i> , 2018, 53, 232-239.	16.0	76
12	Essential Role for the BacA Protein in the Uptake of a Truncated Eukaryotic Peptide in <i>Sinorhizobium meliloti</i> . <i>Journal of Bacteriology</i> , 2009, 191, 1519-1527.	2.2	71
13	Phylogenetic diversity of microbial communities associated with the crude-oil, large-insoluble-particle and formation-water components of the reservoir fluid from a non-flooded high-temperature petroleum reservoir. <i>Journal of Bioscience and Bioengineering</i> , 2012, 113, 204-210.	2.2	69
14	Comparison of Responses to Double-Strand Breaks between <i>Escherichia coli</i> and <i>Bacillus subtilis</i> Reveals Different Requirements for SOS Induction. <i>Journal of Bacteriology</i> , 2009, 191, 1152-1161.	2.2	65
15	Bio-electrochemical conversion of carbon dioxide to methane in geological storage reservoirs. <i>Energy Conversion and Management</i> , 2013, 66, 343-350.	9.2	59
16	NopB, a Type III Secreted Protein of <i>Rhizobium</i> sp. Strain NGR234, Is Associated with Pilus-Like Surface Appendages. <i>Journal of Bacteriology</i> , 2005, 187, 1173-1181.	2.2	58
17	A Thermophilic Gram-Negative Nitrate-Reducing Bacterium, <i>Calditerrivibrio nitroreducens</i> , Exhibiting Electricity Generation Capability. <i>Environmental Science & Technology</i> , 2013, 47, 12583-12590.	10.0	57
18	Startup cathode potentials determine electron transfer behaviours of biocathodes catalysing CO ₂ reduction to CH ₄ in microbial electrosynthesis. <i>Journal of CO₂ Utilization</i> , 2020, 35, 169-175.	6.8	54

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19	Flavonoid-Inducible Modifications to Rhamnan O Antigens Are Necessary for Rhizobium sp. Strain NGR234-Legume Symbioses. Journal of Bacteriology, 2006, 188, 3654-3663.	2.2	51
20	Bioelectrochemical analyses of a thermophilic biocathode catalyzing sustainable hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 15638-15645.	7.1	50
21	<i>Sinorhizobium meliloti</i> CpdR1 is critical for coordinating cell cycle progression and the symbiotic chronic infection. Molecular Microbiology, 2009, 73, 586-600.	2.5	45
22	Bio-electrochemical property and phylogenetic diversity of microbial communities associated with bioelectrodes of an electromethanogenic reactor. Journal of Bioscience and Bioengineering, 2013, 116, 114-117.	2.2	43
23	GO/PEDOT modified biocathodes promoting CO ₂ reduction to CH ₄ in microbial electrosynthesis. Sustainable Energy and Fuels, 2020, 4, 2987-2997.	4.9	37
24	Analysis of methane production by microorganisms indigenous to a depleted oil reservoir for application in Microbial Enhanced Oil Recovery. Journal of Bioscience and Bioengineering, 2012, 113, 84-87.	2.2	35
25	Mechanism of Electromethanogenic Reduction of CO ₂ by a Thermophilic Methanogen. Energy Procedia, 2013, 37, 7021-7028.	1.8	35
26	Role of BacA in Lipopolysaccharide Synthesis, Peptide Transport, and Nodulation by Rhizobium sp. Strain NGR234. Journal of Bacteriology, 2011, 193, 2218-2228.	2.2	31
27	Bioelectrochemical analysis of a hyperthermophilic microbial fuel cell generating electricity at temperatures above 80°C. Bioscience, Biotechnology and Biochemistry, 2015, 79, 1200-1206.	1.3	31
28	Voltage reversal causes bioanode corrosion in microbial fuel cell stacks. International Journal of Hydrogen Energy, 2017, 42, 27649-27656.	7.1	30
29	Polarity reversal facilitates the development of biocathodes in microbial electrosynthesis systems for biogas production. International Journal of Hydrogen Energy, 2019, 44, 26226-26236.	7.1	30
30	Molecular Characterization of Lactobacillus plantarum Genes for Î²-Ketoacyl-Acyl Carrier Protein Synthase III (fabH) and Acetyl Coenzyme A Carboxylase (accBCDA), Which Are Essential for Fatty Acid Biosynthesis. Applied and Environmental Microbiology, 2001, 67, 426-433.	3.1	24
31	Multiple Ku orthologues mediate DNA non-homologous end-joining in the free-living form and during chronic infection of <i>Sinorhizobium meliloti</i> . Molecular Microbiology, 2008, 67, 350-363.	2.5	23
32	Metabolic engineering of hydrophobic Rhodococcus opacus for biodesulfurization in oil-water biphasic reaction mixtures. Journal of Bioscience and Bioengineering, 2012, 113, 360-366.	2.2	22
33	Development of a host-vector system for Lactobacillus plantarum L137 isolated from a traditional fermented food produced in the Philippines. Journal of Bioscience and Bioengineering, 2000, 89, 62-67.	2.2	21
34	Electrochemical and phylogenetic analyses of current-generating microorganisms in a thermophilic microbial fuel cell. Journal of Bioscience and Bioengineering, 2013, 115, 268-271.	2.2	21
35	High-pressure thermophilic electromethanogenic system producing methane at 5 MPa, 55°C. Journal of Bioscience and Bioengineering, 2017, 124, 327-332.	2.2	20
36	Electromethanogenic CO ₂ Conversion by Subsurface-reservoir Microorganisms. Energy Procedia, 2013, 37, 7014-7020.	1.8	19

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37	Experimental Head Injury in Monkeys. <i>Neurologia Medico-Chirurgica</i> , 1981, 21, 645-656.	2.2	15
38	DNA Synthesis and Fragmentation in Bacteroids during <i>Astragalus sinicus</i> Root Nodule Development. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 510-515.	1.3	14
39	Experimental and Mathematical Analyses of Bio-electrochemical Conversion of Carbon Dioxide to Methane. <i>Energy Procedia</i> , 2017, 114, 7133-7140.	1.8	13
40	Methane production by <i>Methanothermobacter thermautotrophicus</i> to recover energy from carbon dioxide sequestered in geological reservoirs. <i>Journal of Bioscience and Bioengineering</i> , 2010, 110, 106-108.	2.2	12
41	Regulation of expression of symbiotic genes in <i>Rhizobium</i> sp. NGR234. <i>Indian Journal of Experimental Biology</i> , 2003, 41, 1101-13.	0.0	10
42	Draft Genome Sequence of a Novel <i>Coriobacteriaceae</i> sp. Strain, EMTCatB1, Reconstructed from the Metagenome of a Thermophilic Electromethanogenic Biocathode. <i>Genome Announcements</i> , 2017, 5, .	0.8	9
43	Identification of New Microbial Mediators for Electromethanogenic Reduction of Geologically-stored Carbon Dioxide. <i>Energy Procedia</i> , 2013, 37, 7006-7013.	1.8	8
44	Experimental Head Injury with Lateral Impact Using Monkeys (Preliminary Report). <i>Neurologia Medico-Chirurgica</i> , 1982, 22, 491-498.	2.2	5
45	Development of Microbial Conversion Process of Residual Oil to Methane in Depleted Oil Fields. , 2009, , .		5
46	Draft Genome Sequence of <i>Methanothermobacter</i> sp. Strain EMTCatA1, Reconstructed from the Metagenome of a Thermophilic Electromethanogenesis-Catalyzing Biocathode. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
47	Analysis of a Methanogen and an Actinobacterium Dominating the Thermophilic Microbial Community of an Electromethanogenic Biocathode. <i>Archaea</i> , 2021, 2021, 1-13.	2.3	4
48	Biofuel Production from Bioelectrochemical Systems. <i>Green Energy and Technology</i> , 2018, , 435-461.	0.6	1