Kazuhiko Saeki

List of Publications by Year
in descending order

48 papers	1,986 citations	304368 22 h-index	243296 44 g-index
48 all docs	48 docs citations	48 times ranked	1857 citing authors

#	Article	IF	Citations
1	Hijacking of leguminous nodulation signaling by the rhizobial type III secretion system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17131-17136.	3.3	245
2	Expression Islands Clustered on the Symbiosis Island of the Mesorhizobium loti Genome. Journal of Bacteriology, 2004, 186, 2439-2448.	1.0	205
3	Hyperproduction of Recombinant Ferredoxins in Escherichia coli by Coexpression of the ORF1-ORF2-iscS-iscU-iscA-hscB-hscA-fdx-ORF3 Gene Cluster. Journal of Biochemistry, 1999, 126, 10-18.	0.9	177
4	Structural and Functional Diversity of Ferredoxins and Related Proteins. Advances in Inorganic Chemistry, 1992, , 223-280.	0.4	129
5	The Protein Responsible for Center A/B in Spinach Photosystem I: Isolation with Iron-Sulfur Cluster(s) and Complete Sequence Analysis1. Journal of Biochemistry, 1988, 103, 962-968.	0.9	112
6	A novel bioremediation system for heavy metals using the symbiosis between leguminous plant and genetically engineered rhizobia. Journal of Biotechnology, 2002, 99, 279-293.	1.9	110
7	Membrane Localization, Topology, and Mutual Stabilization of thernfABCGene Products inRhodobacter capsulatusand Implications for a New Family of Energy-Coupling NADH Oxidoreductasesâ€. Biochemistry, 1997, 36, 5509-5521.	1.2	85
8	Identification and Functional Analysis of Type III Effector Proteins in Mesorhizobium loti. Molecular Plant-Microbe Interactions, 2010, 23, 223-234.	1.4	74
9	LjMATE1: A Citrate Transporter Responsible for Iron Supply to the Nodule Infection Zone of Lotus japonicus. Plant and Cell Physiology, 2013, 54, 585-594.	1.5	70
10	Genomic comparison of <i>Bradyrhizobium japonicum</i> strains with different symbiotic nitrogen-fixing capabilities and other Bradyrhizobiaceae members. ISME Journal, 2009, 3, 326-339.	4.4	67
11	Genome Analysis of a Novel Bradyrhizobium sp. DOA9 Carrying a Symbiotic Plasmid. PLoS ONE, 2015, 10, e0117392.	1.1	52
12	Crystal structure of tobacco necrosis virus at 2.25 Ã… resolution. Journal of Molecular Biology, 2000, 300, 153-169.	2.0	51
13	The Lotus Symbiont, Mesorhizobium loti: Molecular Genetic Techniques and Application. Journal of Plant Research, 2000, 113, 457-465.	1.2	45
14	Rhizobial measures to evade host defense strategies and endogenous threats to persistent symbiotic nitrogen fixation: a focus on two legume-rhizobium model systems. Cellular and Molecular Life Sciences, 2011, 68, 1327-1339.	2.4	40
15	The rnf gene products in Rhodobacter capsulatus play an essential role in nitrogen fixation during anaerobic DMSO-dependent growth in the dark. Archives of Microbiology, 1998, 169, 464-467.	1.0	36
16	Characterization of the Lotus japonicus Symbiotic Mutant lot1 That Shows a Reduced Nodule Number and Distorted Trichomes. Plant Physiology, 2005, 137, 1261-1271.	2.3	31
17	Soybean Seed Extracts Preferentially Express Genomic Loci of Bradyrhizobium japonicum in the Initial Interaction with Soybean, Glycine max (L.) Merr. DNA Research, 2008, 15, 201-214.	1.5	30
18	The bacA Gene Homolog, mlr7400, in Mesorhizobium loti MAFF303099 is Dispensable for Symbiosis with Lotus japonicus but Partially Capable of Supporting the Symbiotic Function of bacA in Sinorhizobium meliloti. Plant and Cell Physiology, 2010, 51, 1443-1452.	1.5	29

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19	Barley Leaf Peroxidase: Purification and Characterization1. Journal of Biochemistry, 1986, 99, 485-494.	0.9	27
20	Pseudomonas stutzeri Ferredoxin: Close Similarity to Azotobacter vinelandii and Pseudomonas ovalis Ferredoxins1. Journal of Biochemistry, 1988, 104, 242-246.	0.9	26
21	Two Distinct Ferredoxins from Rhodobacter capsulatus: Complete Amino Acid Sequences and Molecular Evolution1. Journal of Biochemistry, 1990, 108, 475-482.	0.9	24
22	A plant-ferredoxin-like gene is located upstream of ferredoxin I gene (fdxN) ofRhodobacter capsulatus. Nucleic Acids Research, 1990, 18, 1060-1060.	6.5	24
23	Ordered Cosmid Library of the Mesorhizobium loti MAFF303099 Genome for Systematic Gene Disruption and Complementation Analysis. Plant and Cell Physiology, 2002, 43, 1542-1557.	1.5	24
24	Site-specific Mutagenesis of Rhodobacter capsulatus Ferredoxin I, FdxN, That Functions in Nitrogen Fixation. Journal of Biological Chemistry, 1996, 271, 31399-31406.	1.6	23
25	The <i>Mesorhizobium loti purB</i> Gene Is Involved in Infection Thread Formation and Nodule Development in <i>Lotus japonicus</i>. Journal of Bacteriology, 2007, 189, 8347-8352.	1.0	23
26	Global Gene Expression in Bradyrhizobium japonicum Cultured with Vanillin, Vanillate, 4-Hydroxybenzoate and Protocatechuate. Microbes and Environments, 2006, 21, 240-250.	0.7	22
27	<i>Lotus</i> Accessions Possess Multiple Checkpoints Triggered by Different Type III Secretion System Effectors of the Wide-Host-Range Symbiont <i>Bradyrhizobium elkanii</i> USDA61. Microbes and Environments, 2020, 35, n/a.	0.7	20
28	Ferredoxin and Rubredoxin from Butyribacterium methylotrophicum: Complete Primary Structures and Construction of Phylogenetic Trees1. Journal of Biochemistry, 1989, 106, 656-662.	0.9	19
29	Functional Differences of Two Distinct Catalases in Mesorhizobium loti MAFF303099 under Free-Living and Symbiotic Conditions. Journal of Bacteriology, 2009, 191, 1463-1471.	1.0	19
30	Commonalities and Differences among Symbiosis Islands of Three <i>Mesorhizobium loti</i> Strains. Microbes and Environments, 2013, 28, 275-278.	0.7	17
31	Involvement of a Novel Genistein-Inducible Multidrug Efflux Pump of <i>Bradyrhizobium japonicum</i> Early in the Interaction with <i>Glycine max</i> (L.) Merr. Microbes and Environments, 2013, 28, 414-421.	0.7	16
32	Molecular Cloning and Nucleotide Sequences of cDNAs Encoding Subunits I, II, and IX of Euglena gracilis Mitochondrial Complex III1. Journal of Biochemistry, 1994, 115, 98-107.	0.9	15
33	Purification and properties of ferredoxin and rubredoxin from Butyribacterium methylotrophicum. Journal of Bacteriology, 1989, 171, 4736-4741.	1.0	14
34	Requirement for Mesorhizobium loti Ornithine Transcarbamoylase for Successful Symbiosis with Lotus japonicus as Revealed by an Unexpected Long-Range Genome Deletion. Plant and Cell Physiology, 2008, 49, 301-313.	1.5	11
35	Temperature-Dependent Expression of Type III Secretion System Genes and Its Regulation in <i>Bradyrhizobium japonicum</i>. Molecular Plant-Microbe Interactions, 2010, 23, 628-637.	1.4	10
36	Preliminary crystallographic study of a ribulose-1,5-bisphosphate carboxylase-oxygenase from Chromatium vinosum. Journal of Molecular Biology, 1986, 191, 577-578.	2.0	9

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37	Transcriptional analysis of twoRhodobacter capsulatusferredoxins by translational fusion toEscherichia coli lacZ. FEBS Letters, 1991, 292, 13-16.	1.3	9
38	Phenolic Acids Induce Nod Factor Production in <i>Lotus japonicus</i>â€“<i>Mesorhizobium</i> Symbiosis. Microbes and Environments, 2022, 37, n/a.	0.7	9
39	Characteristic biological activities of lipopolysaccharides from <I>Sinorhizobium</I> and <I>Mesorhizobium</I>. Journal of Endotoxin Research, 2004, 10, 25-31.	2.5	8
40	Whole-Genome Sequence of the Nitrogen-Fixing Symbiotic Rhizobium Mesorhizobium loti Strain TONO. Genome Announcements, 2016, 4, .	0.8	7
41	Primary Structure and Phylogenetic Analysis of the Coat Protein of a Toyama Isolate of Tobacco Necrosis Virus. Bioscience, Biotechnology and Biochemistry, 2001, 65, 719-724.	0.6	6
42	Peribacteroid solution of soybean root nodules partly induces genomic loci for differentiation into bacteroids of free-living Bradyrhizobium japonicum cells. Soil Science and Plant Nutrition, 2015, 61, 461-470.	0.8	4
43	Genome Sequence and Gene Functions in Mesorhizobium loti and Relatives. Compendium of Plant Genomes, 2014, , 41-57.	0.3	4
44	Nucleotide Sequence and Genetic Analysis of the Region Essential for Functional Expression of the Gene for Ferredoxin I, <italic>fdxN</italic>, in <italic>Rhodobacter capsulatus</italic>: Sharing of One Upstream Activator Sequence in Opposite Directions by Two Operons Related to Nitrogen Fixation. Plant and Cell Physiology, 0, , .	1.5	3
45	Assessment of Polygala paniculata (Polygalaceae) characteristics for evolutionary studies of legumeâ€“rhizobia symbiosis. Journal of Plant Research, 2020, 133, 109-122.	1.2	3
46	A Novel FAD-Protein that Allows Effective Reduction of Methyl Viologen by NADH (NADH-Methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Characterization1. Journal of Biochemistry, 1986, 99, 423-435.	0.9	2
47	Electron Transport Pathway to Nitrogenase in Rhodobacter Capsulatus RNF complex and its Relatives in Non-Diazotrophs. , 2000, , 143-144.		0
48	Evolutionary Aspects of Iron-Sulfur Proteins in Photosynthetic Apparatus. , 1992, , 491-498.		0