Kan Tanaka

List of Publications by Year
in descending order

175 papers	9,601 citations	41344 49 h-index	45317 90 g-index
177 all docs	177 docs citations	177 times ranked	6475 citing authors

#	Article	IF	Citations
1	Genome sequence of the ultrasmall unicellular red alga Cyanidioschyzon merolae 10D. Nature, 2004, 428, 653-657.	27.8	1,016
2	A hierarchical quorum-sensing cascade in Pseudomonas aeruginosa links the transcriptional activators LasR and RhlR (VsmR) to expression of the stationary-phase sigma factor RpoS. Molecular Microbiology, 1996, 21, 1137-1146.	2.5	659
3	Heterogeneity of the principal sigma factor in Escherichia coli: the rpoS gene product, sigma 38, is a second principal sigma factor of RNA polymerase in stationary-phase Escherichia coli.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 3511-3515.	7.1	360
4	A 100%-complete sequence reveals unusually simple genomic features in the hot-spring red alga Cyanidioschyzon merolae. BMC Biology, 2007, 5, 28.	3.8	269
5	Improvement of Culture Conditions and Evidence for Nuclear Transformation by Homologous Recombination in a Red Alga, Cyanidioschyzon merolae 10D. Plant and Cell Physiology, 2004, 45, 667-671.	3.1	219
6	Complete Sequence and Analysis of the Plastid Genome of the Unicellular Red Alga Cyanidioschyzon merolae. DNA Research, 2003, 10, 67-77.	3.4	208
7	Transcriptional activation of NtcA-dependent promoters of Synechococcus sp. PCC 7942 by 2-oxoglutarate in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4251-4255.	7.1	187
8	Inorganic polyphosphate and the induction of rpoS expression. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11210-11215.	7.1	179
9	Positive Regulation of Sugar Catabolic Pathways in the Cyanobacterium Synechocystis sp. PCC 6803 by the Group 2 Ïƒ Factor SigE. Journal of Biological Chemistry, 2005, 280, 30653-30659.	3.4	159
10	Circadian Control of Chloroplast Transcription by a Nuclear-Encoded Timing Signal. Science, 2013, 339, 1316-1319.	12.6	139
11	Characterization of three cDNA species encoding plastid RNA polymerase sigma factors in Arabidopsis thaliana : evidence for the sigma factor heterogeneity in higher plant plastids. FEBS Letters, 1997, 413, 309-313.	2.8	129
12	An Arabidopsis Sigma Factor (SIG2)-Dependent Expression of Plastid-Encoded tRNAs in Chloroplasts. Plant and Cell Physiology, 2001, 42, 1034-1043.	3.1	129
13	Nitrogen Induction of Sugar Catabolic Gene Expression in Synechocystis sp. PCC 6803. DNA Research, 2006, 13, 185-195.	3.4	127
14	The Multiple-Stress Responsive Plastid Sigma Factor, SIG5, Directs Activation of the psbD Blue Light-Responsive Promoter (BLRP) in Arabidopsis thaliana. Plant and Cell Physiology, 2004, 45, 357-368.	3.1	121
15	Nuclear Encoding of a Chloroplast RNA Polymerase Sigma Subunit in a Red Alga. Science, 1996, 272, 1932-1935.	12.6	119
16	Genetic Engineering of Group 2 Ïƒ Factor SigE Widely Activates Expressions of Sugar Catabolic Genes in Synechocystis Species PCC 6803. Journal of Biological Chemistry, 2011, 286, 30962-30971.	3.4	116
17	Purification, Characterization, and Gene Expression of All Sigma Factors of RNA Polymerase in a Cyanobacterium. Journal of Molecular Biology, 2003, 325, 857-872.	4.2	114
18	Polyethylene Glycol (PEG)-Mediated Transient Gene Expression in a Red Alga, Cyanidioschyzon merolae 10D. Plant and Cell Physiology, 2008, 49, 117-120.	3.1	114

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19	Increased Bioplastic Production with an RNA Polymerase Sigma Factor SigE during Nitrogen Starvation in Synechocystis sp. PCC 6803. DNA Research, 2013, 20, 525-535.	3.4	113
20	R2R3-type MYB transcription factor, CmMYB1, is a central nitrogen assimilation regulator in <i>Cyanidioschyzon merolae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12548-12553.	7.1	112
21	The Whole Set of Constitutive Promoters Recognized by RNA Polymerase RpoD Holoenzyme of Escherichia coli. PLoS ONE, 2014, 9, e90447.	2.5	111
22	Promoter determinants forEscherichia coliRNA polymerase holoenzyme containing Ïƒ38(therpoSgene) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.5	109
23	Multiple principal sigma factor homologs in eubacteria: identification of the "rpoD box". Science, 1988, 242, 1040-1042.	12.6	106
24	Structure of the 5â€² upstream region and the regulation of the rpoS gene of Escherichia coli. Molecular Genetics and Genomics, 1994, 243, 525-531.	2.4	106
25	A sigma factor that modifies the circadian expression of a subset of genes in cyanobacteria.. EMBO Journal, 1996, 15, 2488-2495.	7.8	104
26	Tetrapyrrole signal as a cell-cycle coordinator from organelle to nuclear DNA replication in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 803-807.	7.1	103
27	Molecular genetic analysis of chloroplast gene promoters dependent on SIG2, a nucleus-encoded sigma factor for the plastid-encoded RNA polymerase, in Arabidopsis thaliana. Nucleic Acids Research, 2003, 31, 7090-7098.	14.5	99
28	Glutamylâ€tRNA mediates a switch in RNA polymerase use during chloroplast biogenesis. EMBO Reports, 2005, 6, 545-550.	4.5	93
29	Three new nuclear genes, sigD , sigE and sigF , encoding putative plastid RNA polymerase Ïƒ factors in Arabidopsis thaliana. FEBS Letters, 2000, 481, 47-52.	2.8	88
30	Plastidic RNA polymerase Â factors in Arabidopsis. Plant and Cell Physiology, 1999, 40, 832-842.	3.1	87
31	Nitrate Assimilatory Genes and Their Transcriptional Regulation in a Unicellular Red Alga Cyanidioschyzon merolae: Genetic Evidence for Nitrite Reduction by a Sulfite Reductase-Like Enzyme. Plant and Cell Physiology, 2010, 51, 707-717.	3.1	86
32	Specific function of a plastid sigma factor for ndhF gene transcription. Nucleic Acids Research, 2005, 33, 5991-5999.	14.5	83
33	Capillary electrophoresisâ€"mass spectrometry reveals the distribution of carbon metabolites during nitrogen starvation in <i><scp>S</scp>ynechocystis</i> sp. <scp>PCC</scp> 6803. Environmental Microbiology, 2014, 16, 512-524.	3.8	83
34	Nuclear encoding of a plastid Â factor in rice and its tissue- and light-dependent expression. Nucleic Acids Research, 1998, 26, 415-419.	14.5	80
35	Target of rapamycin (TOR) plays a critical role in triacylglycerol accumulation in microalgae. Plant Molecular Biology, 2015, 89, 309-318.	3.9	73
36	Roles of Chloroplast RNA Polymerase Sigma Factors in Chloroplast Development and Stress Response in Higher Plants. Bioscience, Biotechnology and Biochemistry, 2004, 68, 2215-2223.	1.3	72

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37	ChlH, the H subunit of the Mg-chelatase, is an anti-sigma factor for SigE in <i>Synechocystis</i> sp. PCC 6803. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6860-6865.	7.1	71
38	Eyespot-dependent determination of the phototactic sign in <i>Chlamydomonas reinhardtii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5299-5304.	7.1	70
39	Periodic Gene Expression Patterns during the Highly Synchronized Cell Nucleus and Organelle Division Cycles in the Unicellular Red Alga Cyanidioschyzon merolae. DNA Research, 2009, 16, 59-72.	3.4	68
40	Dynamics of RpaBâ€“promoter interaction during high light stress, revealed by chromatin immunoprecipitation (ChIP) analysis in <i>Synechococcus elongatus</i> PCC 7942. Plant Journal, 2008, 56, 327-335.	5.7	67
41	DNA Microarray Analysis of Plastid Gene Expression in anArabidopsisMutant Deficient in a Plastid Transcription Factor Sigma, SIG2. Bioscience, Biotechnology and Biochemistry, 2004, 68, 694-704.	1.3	64
42	Antagonistic dark/light-induced SigB/SigD, group 2 sigma factors, expression through redox potential and their roles in cyanobacteria. FEBS Letters, 2003, 554, 357-362.	2.8	60
43	Transcription of the principal sigma-factor genes, rpoD and rpoS, in Pseudomonas aeruginosa is controlled according to the growth phase. Molecular Microbiology, 1994, 13, 1071-1077.	2.5	59
44	A Response Regulator Rre37 and an RNA Polymerase Sigma Factor SigE Represent Two Parallel Pathways to Activate Sugar Catabolism in a Cyanobacterium Synechocystis sp. PCC 6803. Plant and Cell Physiology, 2011, 52, 404-412.	3.1	59
45	Chloroplast Targeting, Distribution and Transcriptional Fluctuation of AtMinD1, a Eubacteria-Type Factor Critical for Chloroplast Division. Plant and Cell Physiology, 2000, 41, 1119-1128.	3.1	57
46	Chloroplast development in Arabidopsis thaliana requires the nuclear-encoded transcription factor Sigma B. FEBS Letters, 2000, 485, 178-182.	2.8	55
47	Chloroplast ribosome release factor 1 (AtcpRF1) is essential for chloroplast development. Plant Molecular Biology, 2007, 64, 481-497.	3.9	55
48	Specificity crosstalk among group 1 and group 2 sigma factors in the cyanobacterium Synechococcus sp. PCC7942: in vitro specificity and a phylogenetic analysis. Molecular Microbiology, 1999, 34, 473-484.	2.5	52
49	A tetrapyrrole-regulated ubiquitin ligase controls algal nuclear DNA replication. Nature Cell Biology, 2011, 13, 483-487.	10.3	52
50	Effects of Antibiotics that Inhibit the Bacterial Peptidoglycan Synthesis Pathway on Moss Chloroplast Division. Plant and Cell Physiology, 2003, 44, 776-781.	3.1	51
51	SigC, the Group 2 Sigma Factor of RNA Polymerase, Contributes to the Late-stage Gene Expression and Nitrogen Promoter Recognition in the CyanobacteriumSynechocystissp. Strain PCC 6803. Bioscience, Biotechnology and Biochemistry, 2004, 68, 477-487.	1.3	51
52	RpaB, Another Response Regulator Operating Circadian Clock-dependent Transcriptional Regulation in Synechococcus elongatus PCC 7942. Journal of Biological Chemistry, 2012, 287, 26321-26327.	3.4	51
53	Spatiotemporal dynamics of condensins I and II: evolutionary insights from the primitive red alga Cyanidioschyzon merolae. Molecular Biology of the Cell, 2013, 24, 2515-2527.	2.1	51
54	Accelerated triacylglycerol production without growth inhibition by overexpression of a glycerol-3-phosphate acyltransferase in the unicellular red alga Cyanidioschyzon merolae. Scientific Reports, 2018, 8, 12410.	3.3	51

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55	Identification of PamA as a PII-binding Membrane Protein Important in Nitrogen-related and Sugar-catabolic Gene Expression in Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2005, 280, 34684-34690.	3.4	50
56	Induction of a Group 2 Ïƒ Factor, RPOD3, by High Light and the Underlying Mechanism in Synechococcus elongatus PCC 7942. Journal of Biological Chemistry, 2007, 282, 36887-36894.	3.4	50
57	Arabidopsis Replication Protein A 70a is Required for DNA Damage Response and Telomere Length Homeostasis. Plant and Cell Physiology, 2009, 50, 1965-1976.	3.1	50
58	MultiplerpoD-Related Genes of Cyanobacteria. Bioscience, Biotechnology and Biochemistry, 1992, 56, 1113-1117.	1.3	49
59	Growth Phase-dependent Activation of Nitrogen-related Genes by a Control Network of Group 1 and Group 2 Ïƒ Factors in a Cyanobacterium. Journal of Biological Chemistry, 2006, 281, 2668-2675.	3.4	49
60	Transient gene suppression in a red alga, Cyanidioschyzon merolae 10D. Protoplasma, 2009, 236, 107-112.	2.1	48
61	The retrograde signaling protein GUN1 regulates tetrapyrrole biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24900-24906.	7.1	48
62	Sugar catabolism regulated by light- and nitrogen-status in the cyanobacterium Synechocystis sp. PCC 6803. Photochemical and Photobiological Sciences, 2007, 6, 508.	2.9	47
63	Keeping in Touch with PII: PII-Interacting Proteins in Unicellular Cyanobacteria. Plant and Cell Physiology, 2007, 48, 908-914.	3.1	45
64	Transcription factor DecR (YbaO) controls detoxification of L-cysteine in Escherichia coli. Microbiology (United Kingdom), 2016, 162, 1698-1707.	1.8	44
65	Identification and analysis of the rpoS-dependent promoter of katE, encoding catalase HPII in Escherichia coli. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1352, 161-166.	2.4	43
66	TOR (target of rapamycin) is a key regulator of triacylglycerol accumulation in microalgae. Plant Signaling and Behavior, 2016, 11, e1149285.	2.4	43
67	Nucleotide sequence of genes hrdA, hrdC, and hrdD from Streptomyces coelicolor A3(2) having similarity to rpoD genes. Molecular Genetics and Genomics, 1991, 229, 334-340.	2.4	42
68	Cloning and analysis of the gene (rpoDA) for the principal Ïƒ factor of Pseudomonas aeruginosa. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1991, 1089, 113-119.	2.4	41
69	Expression of Cyanobacterial Acyl-ACP Reductase Elevates the Triacylglycerol Level in the Red Alga<i>Cyanidioschyzon merolae</i>. Plant and Cell Physiology, 2015, 56, 1962-1980.	3.1	41
70	Characterization of two plastid Ïƒ factors, SigA1 and SigA2, that mainly function in matured chloroplasts in Nicotiana tabacum. Gene, 2000, 261, 221-228.	2.2	40
71	Microarray Profiling of Plastid Gene Expression in a Unicellular Red Alga, Cyanidioschyzon merolae. Plant Molecular Biology, 2005, 59, 375-385.	3.9	40
72	Two types of differentially photo-regulated nuclear genes that encode Ïƒ factors for chloroplast RNA polymerase in the red alga Cyanidium caldarium strain RK-1. Gene, 1998, 210, 277-285.	2.2	39

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73	Abscisic Acid Participates in the Control of Cell Cycle Initiation Through Heme Homeostasis in the Unicellular Red Alga<i>Cyanidioschyzon merolae</i>. Plant and Cell Physiology, 2016, 57, 953-960.	3.1	39
74	Group 2 sigma factors in cyanobacteria. Physiologia Plantarum, 2008, 133, 490-506.	5.2	37
75	Plastid-to-Nucleus Retrograde Signals Are Essential for the Expression of Nuclear Starch Biosynthesis Genes during Amyloplast Differentiation in Tobacco BY-2 Cultured Cells Â Â. Plant Physiology, 2011, 157, 518-530.	4.8	37
76	Pleiotropic effect of <i>sigE</i> overâ€expression on cell morphology, photosynthesis and hydrogen production in <i>Synechocystis</i> sp. <scp>PCC</scp> 6803. Plant Journal, 2013, 76, 456-465.	5.7	37
77	Bacterial luciferase activity and the intracellular redox pool in Escherichia coli. Molecular Genetics and Genomics, 2005, 274, 180-188.	2.1	36
78	Identification and Expression Analysis of cDNA Encoding a Chloroplast Recombination Protein REC1, the Chloroplast RecA Homologue inChlamydomonas reinhardtii. Bioscience, Biotechnology and Biochemistry, 2003, 67, 2608-2613.	1.3	35
79	The plant-specific TFIIB-related protein, pBrp, is a general transcription factor for RNA polymerase I. EMBO Journal, 2008, 27, 2317-2327.	7.8	35
80	The Coiled-Coil Protein VIG1 Is Essential for Tethering Vacuoles to Mitochondria during Vacuole Inheritance of Cyanidioschyzon merolae Â Â Â. Plant Cell, 2010, 22, 772-781.	6.6	35
81	Utility of a GFP reporter system in the red alga Cyanidioschyzon merolae. Journal of General and Applied Microbiology, 2011, 57, 69-72.	0.7	35
82	Iodide Oxidation by a Novel Multicopper Oxidase from the Alphaproteobacterium Strain Q-1. Applied and Environmental Microbiology, 2012, 78, 3941-3949.	3.1	35
83	Regulation of spvR gene expression of Salmonella virulence plasmid pKDSC50 in Salmonella choleraesuis serovar Choleraesuis. Molecular Microbiology, 1994, 12, 779-787.	2.5	33
84	Nucleus-Independent Control of the Rubisco Operon by the Plastid-Encoded Transcription Factor Ycf30 in the Red Alga <i>Cyanidioschyzon merolae</i>. Plant Physiology, 2010, 154, 1532-1540.	4.8	33
85	High magnetic field enhances stationary phase-specific transcription activity of Escherichia coli. Bioelectrochemistry, 1999, 48, 383-387.	1.0	32
86	Centromere dynamics in the primitive red alga Cyanidioschyzon merolae. Plant Journal, 2007, 49, 1122-1129.	5.7	32
87	A nitrogen source-dependent inducible and repressible gene expression system in the red alga Cyanidioschyzon merolae. Frontiers in Plant Science, 2015, 6, 657.	3.6	32
88	The whole set of the constitutive promoters recognized by four minor sigma subunits of Escherichia coli RNA polymerase. PLoS ONE, 2017, 12, e0179181.	2.5	32
89	Characterization of Four Nuclear-Encoded Plastid RNA Polymerase Sigma Factor Genes in the Liverwort Marchantia polymorpha: Blue-Light- and Multiple Stress-Responsive SIG5 was Acquired Early in the Emergence of Terrestrial Plants. Plant and Cell Physiology, 2013, 54, 1736-1748.	3.1	31
90	Characteristics of DNA and Multiple rpoD Homologs of Microcystis(Synechocystis) Strains. International Journal of Systematic Bacteriology, 1993, 43, 844-847.	2.8	29

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91	Cooperation of group 2 Ïƒ factors, SigD and SigE for light-induced transcription in the cyanobacteriumSynechocystissp. PCC 6803. FEBS Letters, 2007, 581, 1495-1500.	2.8	29
92	Identification of YbhA as the pyridoxal 5Ê¹-phosphate (PLP) phosphatase in <i>Escherichia coli</i>: Importance of PLP homeostasis on the bacterial growth. Journal of General and Applied Microbiology, 2017, 63, 362-368.	0.7	29
93	A Carboxy-Terminal 16-Amino-Acid Region of Ï,38 ofEscherichia coli Is Important for Transcription under High-Salt Conditions and Sigma Activities In Vivo. Journal of Bacteriology, 2000, 182, 4628-4631.	2.2	28
94	The checkpoint kinase <scp>TOR</scp> (target of rapamycin) regulates expression of a nuclearâ€encoded chloroplast RelAâ€SpoT homolog (<scp>RSH</scp>) and modulates chloroplast ribosomal <scp>RNA</scp> synthesis in a unicellular red alga. Plant Journal, 2018, 94, 327-339.	5.7	28
95	Target of rapamycinâ€signaling modulates starch accumulation via glycogenin phosphorylation status in the unicellular red alga <i>Cyanidioschyzon merolae</i>. Plant Journal, 2019, 97, 485-499.	5.7	28
96	Induction of entry into the stationary growth phase inPseudomonas aeruginosabyN-acylhomoserine lactone. FEMS Microbiology Letters, 1998, 164, 99-106.	1.8	27
97	Expression of budding yeast FKBP12 confers rapamycin susceptibility to the unicellular red alga Cyanidioschyzon merolae. Biochemical and Biophysical Research Communications, 2013, 439, 264-269.	2.1	26
98	Construction of a <i>URA5.3</i> deletion strain of the unicellular red alga <i>Cyanidioschyzon merolae</i>: A backgroundless host strain for transformation experiments. Journal of General and Applied Microbiology, 2015, 61, 211-214.	0.7	26
99	Genetic and Molecular Analysis of therpoDGene fromLactococcus lactis. Bioscience, Biotechnology and Biochemistry, 1993, 57, 88-92.	1.3	25
100	The rpoD1 Gene Product Is a Principal Sigma Factor of RNA Polymerase in Microcystis aeruginosa K-81. Journal of Biochemistry, 1996, 120, 752-758.	1.7	25
101	External Light Conditions and Internal Cell Cycle Phases Coordinate Accumulation of Chloroplast and Mitochondrial Transcripts in the Red Alga Cyanidioschyzon merolae. DNA Research, 2012, 19, 289-303.	3.4	25
102	Expanded roles of leucine-responsive regulatory protein in transcription regulation of the Escherichia coli genome: Genomic SELEX screening of the regulation targets. Microbial Genomics, 2015, 1, e000001.	2.0	25
103	SIG1, a Sigma Factor for the Chloroplast RNA Polymerase, Differently Associates with Multiple DNA Regions in the Chloroplast Chromosomes in Vivo. International Journal of Molecular Sciences, 2012, 13, 12182-12194.	4.1	24
104	The Unicellular Red Alga<i>Cyanidioschyzon merolaeâ€"</i>The Simplest Model of a Photosynthetic Eukaryote. Plant and Cell Physiology, 2021, 62, 926-941.	3.1	24
105	Development of New Carbon Resources: Production of Important Chemicals from Algal Residue. Scientific Reports, 2017, 7, 855.	3.3	23
106	Cloning, sequencing and characterization of the gene encoding a principal sigma factor homolog from the cyanobacterium Microcystis aeruginosa K-81. Gene, 1996, 181, 213-217.	2.2	22
107	Thymine at â€"5 Is Crucial for cpc Promoter Activity of Synechocystis sp. Strain PCC 6714. Journal of Bacteriology, 2003, 185, 6477-6480.	2.2	22
108	Identification of a chloroplast fatty acid exporter protein, CmFAX1, and triacylglycerol accumulation by its overexpression in the unicellular red alga Cyanidioschyzon merolae. Algal Research, 2019, 38, 101396.	4.6	22

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109	Nucleara€encoded chloroplast RNA polymerase sigma factor SIG2 activates chloroplastâ€encoded phycobilisome genes in a red alga, <i>Cyanidioschyzon merolae</i>. FEBS Letters, 2013, 587, 3354-3359.	2.8	21
110	Mitochondrial Localization of Ferrochelatase in a Red Alga Cyanidioschyzon merolae. Plant and Cell Physiology, 2013, 54, 1289-1295.	3.1	21
111	Cytoplasmic Localization of the Single Glutamine Synthetase in a Unicellular Red Alga,Cyanidioschyzon merolae10D. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2313-2315.	1.3	20
112	Stationary phase-specific expression of theficgene inEscherichia coliK-12 is controlled by therpoSgene product (ÃÂƒ38). FEMS Microbiology Letters, 1993, 113, 273-278.	1.8	19
113	Comparative Study of Cyanobacterial and<i>E. coli</i>RNA Polymerases: Misincorporation, Abortive Transcription, and Dependence on Divalent Cations. Genetics Research International, 2011, 2011, 1-11.	2.0	19
114	The complete nucleotide sequence of the gene (rpoD1) encoding the principal Ïƒ factor of the RNA polymerase from the cyanobacterium Synechococcus sp. strain PCC7942. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1992, 1132, 94-96.	2.4	18
115	Sequence analysis of a 50 kb region between spoOH and rrnH on the Bacillus subtilis chromosome. Microbiology (United Kingdom), 1996, 142, 3039-3046.	1.8	18
116	Molecular phylogeny and evolution of the plastid and nuclear encoded cbbX genes in the unicellular red alga Cyanidioschyzon merolae. Genes and Genetic Systems, 2008, 83, 127-133.	0.7	18
117	Metabolomic analysis reveals rewiring of <scp><i>S</i></scp><i>ynechocystis</i>â€...<scp>sp</scp>. <scp>PCC</scp> 6803 primary metabolism by <i>ntcA</i> overexpression. Environmental Microbiology, 2014, 16, 3304-3317.	3.8	18
118	Complete Genome Sequence of Cyanobacterium <i>Geminocystis</i> sp. Strain NIES-3709, Which Harbors a Phycoerythrin-Rich Phycobilisome. Genome Announcements, 2015, 3, .	0.8	17
119	Conserved twoâ€component <scp>H</scp>ik34â€<scp>R</scp>re1 module directly activates heatâ€stress inducible transcription of major chaperone and other genes in <scp><i>S</i></scp><i>ynechococcus elongatus</i><scp>PCC</scp> 7942. Molecular Microbiology, 2017, 104, 260-277.	2.5	17
120	A suicide enzyme catalyzes multiple reactions for biotin biosynthesis in cyanobacteria. Nature Chemical Biology, 2020, 16, 415-422.	8.0	15
121	Light-responsive transcriptional regulation of thesufpromoters involved in cyanobacteriumSynechocystissp. PCC 6803 Fe-S cluster biogenesis. FEBS Letters, 2006, 580, 5044-5048.	2.8	14
122	Construction of a Selectable Marker Recycling System and the Use in Epitope Tagging of Multiple Nuclear Genes in the Unicellular Red Alga Cyanidioschyzon merolae. Plant and Cell Physiology, 2018, 59, 2308-2316.	3.1	14
123	Measurement of the redox state of the plastoquinone pool in cyanobacteria. FEBS Letters, 2020, 594, 367-375.	2.8	14
124	ESCRT Machinery Mediates Cytokinetic Abscission in the Unicellular Red Alga Cyanidioschyzon merolae. Frontiers in Cell and Developmental Biology, 2020, 8, 169.	3.7	14
125	The Unicellular Red Alga Cyanidioschyzon merolae, an Excellent Model Organism for Elucidating Fundamental Molecular Mechanisms and Their Applications in Biofuel Production. Plants, 2021, 10, 1218.	3.5	14
126	The early days of plastid retrograde signaling with respect to replication and transcription. Frontiers in Plant Science, 2012, 3, 301.	3.6	13

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127	Identification of centromere regions in chromosomes of a unicellular red alga, <i>Cyanidioschyzon merolae</i>. FEBS Letters, 2015, 589, 1219-1224.	2.8	13
128	Complete Genome Sequence of Cyanobacterium <i>Geminocystis</i> sp. Strain NIES-3708, Which Performs Type II Complementary Chromatic Acclimation. Genome Announcements, 2015, 3, .	0.8	13
129	Interference Expression at Levels of the Transcript and Protein among Group 1, 2, and 3 Sigma Factor Genes in a Cyanobacterium. Microbes and Environments, 2007, 22, 32-43.	1.6	11
130	Centromere structures highlighted by the 100%-completeCyanidioschyzon merolaeGenome. Plant Signaling and Behavior, 2008, 3, 140-141.	2.4	11
131	Overexpression of a glycogenin, CmGLG2, enhances floridean starch accumulation in the red alga<i>Cyanidioschyzon merolae</i>. Plant Signaling and Behavior, 2019, 14, 1596718.	2.4	11
132	Microalgal Target of Rapamycin (TOR): A Central Regulatory Hub for Growth, Stress Response and Biomass Production. Plant and Cell Physiology, 2020, 61, 675-684.	3.1	11
133	Functional analysis of the plastid and nuclear encoded CbbX proteins of Cyanidioschyzon merolae. Genes and Genetic Systems, 2008, 83, 135-142.	0.7	10
134	Construction of a rapamycin-susceptible strain of the unicellular red alga <i>Cyanidioschyzon merolae</i> for analysis of the target of rapamycin (TOR) function. Journal of General and Applied Microbiology, 2017, 63, 305-309.	0.7	10
135	Câ€terminal regulatory domain of the Îµ subunit of F_oF₁ ATP synthase enhances the ATPâ€dependent H⁺ pumping that is involved in the maintenance of cellular membrane potential in <i>Bacillus subtilis</i>. MicrobiologyOpen, 2019, 8, e00815.	3.0	10
136	Acetate overflow metabolism regulates a major metabolic shift after glucose depletion in <i>Escherichia</i>Â<i>coli</i>. FEBS Letters, 2021, 595, 2047-2056.	2.8	10
137	Cloning and characterization inEscherichia coliof the gene encoding the principal sigma factor of an extreme thermophile,Thermus thermophilus. FEMS Microbiology Letters, 1999, 172, 179-186.	1.8	9
138	Isolation of Cycloheximide-resistant Mutants of Cyanidioschyzon merolae. Cytologia, 2004, 69, 97-100.	0.6	9
139	Mg-Protoporphyrin IX Signaling inCyanidioschyzon merolae. Plant Signaling and Behavior, 2009, 4, 1190-1192.	2.4	9
140	Optimization of polyethylene glycol (PEG)-mediated DNA introduction conditions for transient gene expression in the unicellular red alga Cyanidioschyzon merolae. Journal of General and Applied Microbiology, 2014, 60, 156-159.	0.7	9
141	Stable expression of a GFP-reporter gene in the red alga Cyanidioschyzon merolae. Bioscience, Biotechnology and Biochemistry, 2014, 78, 175-177.	1.3	9
142	Proteomic analysis of haem-binding protein from <i>Arabidopsis thaliana</i> and <i>Cyanidioschyzon merolae</i>. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190488.	4.0	9
143	The cyanobacterial principal Ïƒ factor region 1.1 is involved in DNA-binding in the free form and in transcription activity as holoenzyme. FEBS Letters, 2006, 580, 3439-3444.	2.8	8
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