

# Satoru Watanabe

## List of Publications by Year in descending order

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49  
papers

1,117  
citations

394421

19  
h-index

434195

31  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Awakening of a Dormant Cyanobacterium from Nitrogen Chlorosis Reveals a Genetically Determined Program. <i>Current Biology</i> , 2016, 26, 2862-2872.	3.9	149
2	Identification of Substrain-Specific Mutations by Massively Parallel Whole-Genome Resequencing of <i>Synechocystis</i> sp. PCC 6803. <i>DNA Research</i> , 2012, 19, 67-79.	3.4	119
3	CyanoBase: A large-scale update on its 20th anniversary. <i>Nucleic Acids Research</i> , 2017, 45, D551-D554.	14.5	95
4	Light-dependent and asynchronous replication of cyanobacterial multi-copy chromosomes. <i>Molecular Microbiology</i> , 2012, 83, 856-865.	2.5	68
5	Defect in the Formation of 70S Ribosomes Caused by Lack of Ribosomal Protein L34 Can Be Suppressed by Magnesium. <i>Journal of Bacteriology</i> , 2014, 196, 3820-3830.	2.2	64
6	The retrograde signaling protein GUN1 regulates tetrapyrrole biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24900-24906.	7.1	48
7	Intensive DNA Replication and Metabolism during the Lag Phase in Cyanobacteria. <i>PLoS ONE</i> , 2015, 10, e0136800.	2.5	44
8	Diversification of DnaA dependency for DNA replication in cyanobacterial evolution. <i>ISME Journal</i> , 2016, 10, 1113-1121.	9.8	39
9	mRNA localization, reaction centre biogenesis and thylakoid membrane targeting in cyanobacteria. <i>Nature Plants</i> , 2020, 6, 1179-1191.	9.3	39
10	Coordination of Polyploid Chromosome Replication with Cell Size and Growth in a Cyanobacterium. <i>MBio</i> , 2019, 10, .	4.1	37
11	Studies on the role of HtpG in the tetrapyrrole biosynthesis pathway of the cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 36-41.	2.1	35
12	Cytosine N4-Methylation via M.Ssp6803II Is Involved in the Regulation of Transcription, Fine-Tuning of DNA Replication and DNA Repair in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Microbiology</i> , 2019, 10, 1233.	3.5	31
13	Biosynthesis of a sulfated exopolysaccharide, synechan, and bloom formation in the model cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>ELife</i> , 2021, 10, .	6.0	29
14	Expression of budding yeast FKBP12 confers rapamycin susceptibility to the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 264-269.	2.1	26
15	Cyanobacterial multi-copy chromosomes and their replication. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 1309-1321.	1.3	26
16	Construction of a $\Delta$ URA5.3 $\Delta$ deletion strain of the unicellular red alga <i>Cyanidioschyzon merolae</i> : A backgroundless host strain for transformation experiments. <i>Journal of General and Applied Microbiology</i> , 2015, 61, 211-214.	0.7	26
17	Protection of psbAII Transcript from Ribonuclease Degradation in Vitro by DnaK2 and DnaJ2 Chaperones of the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 279-282.	1.3	23
18	Complete Genome Sequence of <i>Enterococcus mundtii</i> QU 25, an Efficient L-(+)-Lactic Acid-Producing Bacterium. <i>DNA Research</i> , 2014, 21, 369-377.	3.4	22

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19	Mitochondrial Localization of Ferrochelatase in a Red Alga <i>Cyanidioschyzon merolae</i> . <i>Plant and Cell Physiology</i> , 2013, 54, 1289-1295.	3.1	21
20	Complete Sequence of the First Chimera Genome Constructed by Cloning the Whole Genome of <i>Synechocystis</i> Strain PCC6803 into the <i>Bacillus subtilis</i> 168 Genome. <i>Journal of Bacteriology</i> , 2012, 194, 7007-7007.	2.2	18
21	Conserved two-component <i>Hik34</i> module directly activates heat stress inducible transcription of major chaperone and other genes in <i>Synechococcus elongatus</i> PCC 7942. <i>Molecular Microbiology</i> , 2017, 104, 260-277.	2.5	17
22	Essentiality of WalRK for growth in <i>Bacillus subtilis</i> and its role during heat stress. <i>Microbiology (United Kingdom)</i> , 2018, 164, 670-684.	1.8	14
23	Visualization of the seasonal shift of a variety of airborne pollens in western Tokyo. <i>Science of the Total Environment</i> , 2021, 788, 147623.	8.0	13
24	Draft Genome Sequence of the Nitrogen-Fixing and Hormogonia-Inducing Cyanobacterium <i>Nostoc cycadae</i> Strain WK-1, Isolated from the Coralloid Roots of <i>Cycas revoluta</i> . <i>Genome Announcements</i> , 2018, 6, .	0.8	10
25	Stable expression of a GFP-reporter gene in the red alga <i>Cyanidioschyzon merolae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 175-177.	1.3	9
26	Proteomic analysis of haem-binding protein from <i>Arabidopsis thaliana</i> and <i>Cyanidioschyzon merolae</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190488.	4.0	9
27	Variety of DNA Replication Activity Among Cyanobacteria Correlates with Distinct Respiration Activity in the Dark. <i>Plant and Cell Physiology</i> , 2016, 58, pcw186.	3.1	8
28	Identification of Transcription Factors and the Regulatory Genes Involved in Triacylglycerol Accumulation in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>Plants</i> , 2021, 10, 971.	3.5	8
29	Carbon-free production of 2-deoxy-scylo-inosose (DOI) in cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 161-165.	1.3	6
30	The CRP family transcriptional regulator DevH regulates expression of heterocyst-specific genes at the later stage of differentiation in the cyanobacterium <i>Anabaena</i> sp. strain PCC 7120. <i>Molecular Microbiology</i> , 2020, 114, 553-562.	2.5	6
31	Evolution of Ribosomal Protein S14 Demonstrated by the Reconstruction of Chimeric Ribosomes in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	6
32	ParA-like protein influences the distribution of multi-copy chromosomes in cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Microbiology (United Kingdom)</i> , 2018, 164, 45-56.	1.8	6
33	Biochemical and molecular characterization of orange- and tangerine-colored rice calli. <i>Plant Biotechnology</i> , 2015, 32, 193-203.	1.0	6
34	Acclimation process of the chlorophyll <i>d</i> -bearing cyanobacterium <i>Acaryochloris marina</i> to an orange light environment revealed by transcriptomic analysis and electron microscopic observation. <i>Journal of General and Applied Microbiology</i> , 2020, 66, 106-115.	0.7	5
35	Novel (p)ppGpp suppressor mutations reveal an unexpected link between methionine catabolism and GTP synthesis in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2020, 113, 1155-1169.	2.5	5
36	The nitrogen-regulated response regulator NrrA is a conserved regulator of glycogen catabolism in $\hat{2}$ -cyanobacteria. <i>Microbiology (United Kingdom)</i> , 2017, 163, 1711-1719.	1.8	5

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37	Transcriptional regulation of xylose utilization in <i>Enterococcus mundtii</i> QU 25. <i>RSC Advances</i> , 2015, 5, 93283-93292.	3.6	4
38	A Carbon Dioxide Limitation-Inducible Protein, ColA, Supports the Growth of <i>Synechococcus</i> sp. PCC 7002. <i>Marine Drugs</i> , 2017, 15, 390.	4.6	4
39	Conserved Two-component Hik2a Rre1 Signaling Is Activated Under Temperature Upshift and Plastoquinone-reducing Conditions in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Plant and Cell Physiology</i> , 2022, 63, 176-188.	3.1	4
40	Transposition of insertion sequence IS256Bsu1 in <i>Bacillus subtilis</i> 168 is strictly dependent on <i>recA</i> . <i>Genes and Genetic Systems</i> , 2017, 92, 59-71.	0.7	3
41	Stable mutants of restriction-deficient/modification-proficient <i>Bacillus subtilis</i> 168: hub strains for giant DNA engineering. <i>Journal of Biochemistry</i> , 2019, 166, 231-236.	1.7	2
42	Regulation of the <i>groESL1</i> transcription by the HrcA repressor and a novel transcription factor Orf7.5 in the cyanobacterium <i>Synechococcus elongatus</i> PCC7942. <i>Journal of General and Applied Microbiology</i> , 2020, 66, 85-92.	0.7	2
43	Novel heat shock response mechanism mediated by the initiation nucleotide of transcription. <i>Journal of General and Applied Microbiology</i> , 2022, 68, 95-108.	0.7	2
44	Constitutive expression of phosphoketolase, a key enzyme for metabolic shift from homo- to heterolactic fermentation in <i>Enterococcus mundtii</i> QU 25. <i>Bioscience of Microbiota, Food and Health</i> , 2019, 38, 111-114.	1.8	1
45	Specific binding of DnaA to the DnaA box motif in the cyanobacterium <i>Synechococcus elongatus</i> ; PCC 7942. <i>Journal of General and Applied Microbiology</i> , 2020, 66, 80-84.	0.7	1
46	3P-272 Interaction of HtpG (Hsp90) with the DnaK (Hsp70) chaperone system in the cyanobacterium <i>Synechococcus</i> sp. PCC 7942(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S169.	0.1	0
47	Complete Genome Sequence of <i>Enterococcus faecium</i> QU50, a Thermophilic Lactic Acid Bacterium Capable of Metabolizing Xylose. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	0
48	EliA is required for inducing the stearyl alcohol-mediated expression of secretory proteins and production of polyester in <i>Ralstonia</i> sp. NT80. <i>Microbiology (United Kingdom)</i> , 2016, 162, 408-419.	1.8	0
49	Direct Visualization of the Multicopy Chromosomes in Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bio-protocol</i> , 2018, 8, e2958.	0.4	0