

Sousuke Imamura

List of Publications by Year in descending order

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47
papers

1,716
citations

245449

24
h-index

286620

40
g-index

54
all docs

54
docs citations

54
times ranked

1612
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen Induction of Sugar Catabolic Gene Expression in <i>Synechocystis</i> sp. PCC 6803. <i>DNA Research</i> , 2006, 13, 185-195.	3.5	133
2	Purification, Characterization, and Gene Expression of All Sigma Factors of RNA Polymerase in a Cyanobacterium. <i>Journal of Molecular Biology</i> , 2003, 325, 857-872.	4.3	119
3	R2R3-type MYB transcription factor, CmMYB1, is a central nitrogen assimilation regulator in <i>Cyanidioschyzon merolae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12548-12553.	7.6	117
4	Sigma Factors for Cyanobacterial Transcription. <i>Gene Regulation and Systems Biology</i> , 2009, 3, GRSB.S2090.	2.0	96
5	Nitrate Assimilatory Genes and Their Transcriptional Regulation in a Unicellular Red Alga <i>Cyanidioschyzon merolae</i> : Genetic Evidence for Nitrite Reduction by a Sulfite Reductase-Like Enzyme. <i>Plant and Cell Physiology</i> , 2010, 51, 707-717.	3.2	88
6	ChlH, the H subunit of the Mg-chelatase, is an anti-sigma factor for SigE in <i>Synechocystis</i> sp. PCC 6803. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6860-6865.	7.6	80
7	Target of rapamycin (TOR) plays a critical role in triacylglycerol accumulation in microalgae. <i>Plant Molecular Biology</i> , 2015, 89, 309-318.	4.0	79
8	Periodic Gene Expression Patterns during the Highly Synchronized Cell Nucleus and Organelle Division Cycles in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>DNA Research</i> , 2009, 16, 59-72.	3.5	69
9	A tetrapyrrole-regulated ubiquitin ligase controls algal nuclear DNA replication. <i>Nature Cell Biology</i> , 2011, 13, 483-487.	10.0	53
10	Accelerated triacylglycerol production without growth inhibition by overexpression of a glycerol-3-phosphate acyltransferase in the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>Scientific Reports</i> , 2018, 8, 12410.	3.4	53
11	SigC, the Group 2 Sigma Factor of RNA Polymerase, Contributes to the Late-stage Gene Expression and Nitrogen Promoter Recognition in the Cyanobacterium <i>Synechocystis</i> sp. Strain PCC 6803. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 477-487.	1.3	52
12	Growth Phase-dependent Activation of Nitrogen-related Genes by a Control Network of Group 1 and Group 2 σ Factors in a Cyanobacterium. <i>Journal of Biological Chemistry</i> , 2006, 281, 2668-2675.	3.5	50
13	TOR (target of rapamycin) is a key regulator of triacylglycerol accumulation in microalgae. <i>Plant Signaling and Behavior</i> , 2016, 11, e1149285.	2.4	47
14	Expression of Cyanobacterial Acyl-ACP Reductase Elevates the Triacylglycerol Level in the Red Alga <i>Cyanidioschyzon merolae</i> . <i>Plant and Cell Physiology</i> , 2015, 56, 1962-1980.	3.2	42
15	The plant-specific TFIIIB-related protein, pBrp, is a general transcription factor for RNA polymerase I. <i>EMBO Journal</i> , 2008, 27, 2317-2327.	8.2	36
16	Stringent promoter recognition and autoregulation by the group 3 σ -factor SigF in the cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>Nucleic Acids Research</i> , 2008, 36, 5297-5305.	14.0	35
17	The checkpoint kinase TOR (target of rapamycin) regulates expression of a nuclear-encoded chloroplast RelA-SpoT homolog (RSH) and modulates chloroplast ribosomal RNA synthesis in a unicellular red alga. <i>Plant Journal</i> , 2018, 94, 327-339.	5.9	30
18	Target of rapamycin signaling modulates starch accumulation via glycogenin phosphorylation status in the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>Plant Journal</i> , 2019, 97, 485-499.	5.9	30

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19	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.	2.2	28
20	Construction of a Δ URA5.3 Δ 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.	0.8	27
21	In vitro transcription analysis by reconstituted cyanobacterial RNA polymerase: roles of group 1 and 2 sigma factors and a core subunit, RpoC2. <i>Genes To Cells</i> , 2004, 9, 1175-1187.	1.3	26
22	External Light Conditions and Internal Cell Cycle Phases Coordinate Accumulation of Chloroplast and Mitochondrial Transcripts in the Red Alga <i>Cyanidioschyzon merolae</i> . <i>DNA Research</i> , 2012, 19, 289-303.	3.5	25
23	Genetic transformation of <i>Pseudochoricystis ellipsoidea</i> , an aliphatic hydrocarbon-producing green alga. <i>Journal of General and Applied Microbiology</i> , 2012, 58, 1-10.	0.8	24
24	Identification of a chloroplast fatty acid exporter protein, CmFAX1, and triacylglycerol accumulation by its overexpression in the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>Algal Research</i> , 2019, 38, 101396.	4.7	24
25	Development of New Carbon Resources: Production of Important Chemicals from Algal Residue. <i>Scientific Reports</i> , 2017, 7, 855.	3.4	23
26	Two Novel Nuclear Genes, OsSIG5 and OsSIG6, Encoding Potential Plastid Sigma Factors of RNA Polymerase in Rice: Tissue-Specific and Light-Responsive Gene Expression. <i>Plant and Cell Physiology</i> , 2007, 48, 186-192.	3.2	21
27	The Unicellular Red Alga <i>Cyanidioschyzon merolae</i> , an Excellent Model Organism for Elucidating Fundamental Molecular Mechanisms and Their Applications in Biofuel Production. <i>Plants</i> , 2021, 10, 1218.	3.6	18
28	Microalgal Target of Rapamycin (TOR): A Central Regulatory Hub for Growth, Stress Response and Biomass Production. <i>Plant and Cell Physiology</i> , 2020, 61, 675-684.	3.2	15
29	Construction of a Selectable Marker Recycling System and the Use in Epitope Tagging of Multiple Nuclear Genes in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 2308-2316.	3.2	14
30	Interference Expression at Levels of the Transcript and Protein among Group 1, 2, and 3 Sigma Factor Genes in a Cyanobacterium. <i>Microbes and Environments</i> , 2007, 22, 32-43.	1.7	12
31	Construction of a rapamycin-susceptible strain of the unicellular red alga <i>Cyanidioschyzon merolae</i> for analysis of the target of rapamycin (TOR) function. <i>Journal of General and Applied Microbiology</i> , 2017, 63, 305-309.	0.8	11
32	Overexpression of a glycogenin, CmGLG2, enhances floridean starch accumulation in the red alga <i>Cyanidioschyzon merolae</i> . <i>Plant Signaling and Behavior</i> , 2019, 14, 1596718.	2.4	11
33	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.	3.6	11
34	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	10
35	A method for the preparation of electrocompetent cells to transform unicellular green algae, <i>Coccomyxa</i> (Trebouxiophyceae, Chlorophyta) strains Obi and KJ. <i>Algal Research</i> , 2020, 48, 101904.	4.7	10
36	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.	4.2	10

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37	Expanded roles of pyruvate-sensing PdhR in transcription regulation of the Escherichia coli K-12 genome: fatty acid catabolism and cell motility. <i>Microbial Genomics</i> , 2020, 6, .	2.1	10
38	Catalytic Processes for Utilizing Carbohydrates Derived from Algal Biomass. <i>Catalysts</i> , 2017, 7, 163.	3.6	9
39	The nuclear-encoded sigma factor SIG4 directly activates transcription of chloroplast psbA and ycf17 genes in the unicellular red alga <i>Cyanidioschyzon merolae</i> . <i>FEMS Microbiology Letters</i> , 2015, 362, .	1.8	7
40	Multiple Modification of Chromosomal Loci Using URA5.3 Selection Marker in the Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>Bio-protocol</i> , 2019, 9, e3204.	0.4	7
41	Identification and analysis of a principal sigma factor interacting protein SinA, essential for growth at high temperatures in a cyanobacterium <i>Synechococcus elongatus</i>; PCC 7942. <i>Journal of General and Applied Microbiology</i> , 2020, 66, 66-72.	0.8	6
42	Top Starch Plating Method for the Efficient Cultivation of Unicellular Red Alga <i>Cyanidioschyzon merolae</i> . <i>Bio-protocol</i> , 2019, 9, e3172.	0.4	6
43	Transcription Factor SrsR (Ygfl) Is a Novel Regulator for the Stress-Response Genes in Stationary Phase in <i>Escherichia coli</i> K-12. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6055.	4.2	5
44	Establishment of a firefly luciferase reporter assay system in the unicellular red alga <i>Cyanidioschyzon merolae</i>. <i>Journal of General and Applied Microbiology</i> , 2021, 67, 42-46.	0.8	2
45	Coordination of apicoplast transcription in a malaria parasite by internal and host cues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2023, 120, .	7.6	2
46	Organic Synthetic Approach for a Production of Fine Chemicals from Sugars. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , 2017, 96, 408-416.	0.3	1
47	CmNDB1 and a Specific Domain of CmMYB1 Negatively Regulate CmMYB1-Dependent Transcription of Nitrate Assimilation Genes Under Nitrogen-Repleted Condition in a Unicellular Red Alga. <i>Frontiers in Plant Science</i> , 2022, 13, 821947.	3.8	1