

Shimpei Aikawa

List of Publications by Year in descending order

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35
papers

1,263
citations

331670

21
h-index

361022

35
g-index

35
all docs

35
docs citations

35
times ranked

1575
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. <i>Journal of Experimental Botany</i> , 2013, 64, 2943-2954.	4.8	132
2	Synergistic enhancement of glycogen production in <i>Arthrospira platensis</i> by optimization of light intensity and nitrate supply. <i>Bioresource Technology</i> , 2012, 108, 211-215.	9.6	114
3	Direct conversion of <i>Spirulina</i> to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013, 6, 1844.	30.8	103
4	Glycogen production for biofuels by the euryhaline cyanobacteria <i>Synechococcus</i> sp. strain PCC 7002 from an oceanic environment. <i>Biotechnology for Biofuels</i> , 2014, 7, 88.	6.2	85
5	Development of lipid productivities under different CO ₂ conditions of marine microalgae <i>Chlamydomonas</i> sp. JSC4. <i>Bioresource Technology</i> , 2014, 152, 247-252.	9.6	82
6	Adaptation of light-harvesting systems of <i>Arthrospira platensis</i> to light conditions, probed by time-resolved fluorescence spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1483-1489.	1.0	76
7	Overexpression of <i>flv3</i> improves photosynthesis in the cyanobacterium <i>Synechocystis</i> sp. PCC6803 by enhancement of alternative electron flow. <i>Biotechnology for Biofuels</i> , 2014, 7, 493.	6.2	49
8	<i>slr1923</i> of <i>Synechocystis</i> sp. PCC6803 Is Essential for Conversion of 3,8-Divinyl(proto)chlorophyll(ide) to 3-Monovinyl(proto)chlorophyll(ide). <i>Plant Physiology</i> , 2008, 148, 1068-1081.	4.8	47
9	A Stable, Autonomously Replicating Plasmid Vector Containing <i>Pichia pastoris</i> Centromeric DNA. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	43
10	COMPARATIVE STUDY ON THE PHOTOSYNTHETIC PROPERTIES OF <i>PRASIOLA</i> (CHLOROPHYCEAE) AND <i>NOSTOC</i> (CYANOPHYCEAE) FROM ANTARCTIC AND NON-ANTARCTIC SITES. <i>Journal of Phycology</i> , 2010, 46, 466-476.	2.3	41
11	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <i>Biotechnology Journal</i> , 2015, 10, 886-898.	3.5	38
12	Variety in excitation energy transfer processes from phycobilisomes to photosystems I and II. <i>Photosynthesis Research</i> , 2017, 133, 235-243.	2.9	37
13	Rre37 stimulates accumulation of 2-oxoglutarate and glycogen under nitrogen starvation in <i>Synechocystis</i> sp. PCC 6803. <i>FEBS Letters</i> , 2014, 588, 466-471.	2.8	33
14	Energy Transfer in Cyanobacteria and Red Algae: Confirmation of Spillover in Intact Megacomplexes of Phycobilisome and Both Photosystems. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3567-3571.	4.6	33
15	Utilization of Lactic Acid Bacterial Genes in <i>Synechocystis</i> sp. PCC 6803 in the Production of Lactic Acid. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 966-970.	1.3	31
16	Increased biomass production and glycogen accumulation in <i>apcE</i> gene deleted <i>Synechocystis</i> sp. PCC 6803. <i>AMB Express</i> , 2014, 4, 17.	3.0	30
17	Adaptation of light-harvesting functions of unicellular green algae to different light qualities. <i>Photosynthesis Research</i> , 2019, 139, 145-154.	2.9	28
18	Construction of a Genome-Scale Metabolic Model of <i>Arthrospira platensis</i> NIES-39 and Metabolic Design for Cyanobacterial Bioproduction. <i>PLoS ONE</i> , 2015, 10, e0144430.	2.5	27

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19	Changes in Lignin and Polysaccharide Components in 13 Cultivars of Rice Straw following Dilute Acid Pretreatment as Studied by Solution-State 2D 1H-13C NMR. PLoS ONE, 2015, 10, e0128417.	2.5	26
20	A pilot-scale floating closed culture system for the multicellular cyanobacterium <i>Arthrospira platensis</i> NIES-39. Journal of Applied Phycology, 2015, 27, 2191-2202.	2.8	25
21	Modification of energy-transfer processes in the cyanobacterium, <i>Arthrospira platensis</i> , to adapt to light conditions, probed by time-resolved fluorescence spectroscopy. Photosynthesis Research, 2013, 117, 235-243.	2.9	23
22	Direct and highly productive conversion of cyanobacteria <i>Arthrospira platensis</i> to ethanol with CaCl ₂ addition. Biotechnology for Biofuels, 2018, 11, 50.	6.2	21
23	Aqueous size-exclusion chromatographic method for the quantification of cyanobacterial native glycogen. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 930, 90-97.	2.3	20
24	Light adaptation of the unicellular red alga, <i>Cyanidioschyzon merolae</i> , probed by time-resolved fluorescence spectroscopy. Photosynthesis Research, 2015, 125, 211-218.	2.9	20
25	Deletion of DNA ligase IV homolog confers higher gene targeting efficiency on homologous recombination in <i>Komagataella phaffii</i> . FEMS Yeast Research, 2018, 18, .	2.3	20
26	Short-Term Temporal Metabolic Behavior in Halophilic Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002 after Salt Shock. Metabolites, 2019, 9, 297.	2.9	18
27	Characterization and high-quality draft genome sequence of <i>Herbivorax saccincola</i> A7, an anaerobic, alkaliphilic, thermophilic, cellulolytic, and xylanolytic bacterium. Systematic and Applied Microbiology, 2018, 41, 261-269.	2.8	17
28	Short-term light adaptation of a cyanobacterium, <i>Synechocystis</i> sp. PCC 6803, probed by time-resolved fluorescence spectroscopy. Plant Physiology and Biochemistry, 2014, 81, 149-154.	5.8	13
29	Energy transfer in <i>Anabaena variabilis</i> filaments under nitrogen depletion, studied by time-resolved fluorescence. Photosynthesis Research, 2015, 125, 191-199.	2.9	8
30	Photoprotection mechanisms under different CO ₂ regimes during photosynthesis in a green alga <i>Chlorella variabilis</i> . Photosynthesis Research, 2020, 144, 397-407.	2.9	7
31	Diel tuning of photosynthetic systems in ice algae at Saroma-ko Lagoon, Hokkaido, Japan. Polar Science, 2009, 3, 57-72.	1.2	5
32	Differences in excitation energy transfer of <i>Arthrospira platensis</i> cells grown in seawater medium and freshwater medium, probed by time-resolved fluorescence spectroscopy. Chemical Physics Letters, 2013, 588, 231-236.	2.6	5
33	Differences in energy transfer of a cyanobacterium, <i>Synechococcus</i> sp. PCC 7002, grown in different cultivation media. Photosynthesis Research, 2015, 125, 201-210.	2.9	2
34	Energy transfer in <i>Anabaena variabilis</i> filaments adapted to nitrogen-depleted and nitrogen-enriched conditions studied by time-resolved fluorescence. Photosynthesis Research, 2017, 133, 317-326.	2.9	2
35	Phenotypic characterization and comparative genome analysis of two strains of thermophilic, anaerobic, cellulolytic-xylanolytic bacterium <i>Herbivorax saccincola</i> . Enzyme and Microbial Technology, 2020, 136, 109517.	3.2	2