

Shimpei Aikawa

List of Publications by Year in descending order

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35
papers

1,263
citations

377584

21
h-index

406436

35
g-index

35
all docs

35
docs citations

35
times ranked

1756
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoprotection mechanisms under different CO ₂ regimes during photosynthesis in a green alga <i>Chlorella variabilis</i> . <i>Photosynthesis Research</i> , 2020, 144, 397-407.	1.6	7
2	Phenotypic characterization and comparative genome analysis of two strains of thermophilic, anaerobic, cellulolytic-xylanolytic bacterium <i>Herbivorax saccincola</i> . <i>Enzyme and Microbial Technology</i> , 2020, 136, 109517.	1.6	2
3	Adaptation of light-harvesting functions of unicellular green algae to different light qualities. <i>Photosynthesis Research</i> , 2019, 139, 145-154.	1.6	28
4	Short-Term Temporal Metabolic Behavior in Halophilic Cyanobacterium <i>Synechococcus</i> sp. Strain PCC 7002 after Salt Shock. <i>Metabolites</i> , 2019, 9, 297.	1.3	18
5	Characterization and high-quality draft genome sequence of <i>Herbivorax saccincola</i> A7, an anaerobic, alkaliphilic, thermophilic, cellulolytic, and xylanolytic bacterium. <i>Systematic and Applied Microbiology</i> , 2018, 41, 261-269.	1.2	17
6	Direct and highly productive conversion of cyanobacteria <i>Arthrospira platensis</i> to ethanol with CaCl ₂ addition. <i>Biotechnology for Biofuels</i> , 2018, 11, 50.	6.2	21
7	A Stable, Autonomously Replicating Plasmid Vector Containing <i>Pichia pastoris</i> Centromeric DNA. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	43
8	Deletion of DNA ligase IV homolog confers higher gene targeting efficiency on homologous recombination in <i>Komagataella phaffii</i> . <i>FEMS Yeast Research</i> , 2018, 18, .	1.1	20
9	Energy transfer in <i>Anabaena variabilis</i> filaments adapted to nitrogen-depleted and nitrogen-enriched conditions studied by time-resolved fluorescence. <i>Photosynthesis Research</i> , 2017, 133, 317-326.	1.6	2
10	Variety in excitation energy transfer processes from phycobilisomes to photosystems I and II. <i>Photosynthesis Research</i> , 2017, 133, 235-243.	1.6	37
11	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.	2.1	33
12	Improving polyglucan production in cyanobacteria and microalgae via cultivation design and metabolic engineering. <i>Biotechnology Journal</i> , 2015, 10, 886-898.	1.8	38
13	Light adaptation of the unicellular red alga, <i>Cyanidioschyzon merolae</i> , probed by time-resolved fluorescence spectroscopy. <i>Photosynthesis Research</i> , 2015, 125, 211-218.	1.6	20
14	Differences in energy transfer of a cyanobacterium, <i>Synechococcus</i> sp. PCC 7002, grown in different cultivation media. <i>Photosynthesis Research</i> , 2015, 125, 201-210.	1.6	2
15	Energy transfer in <i>Anabaena variabilis</i> filaments under nitrogen depletion, studied by time-resolved fluorescence. <i>Photosynthesis Research</i> , 2015, 125, 191-199.	1.6	8
16	A pilot-scale floating closed culture system for the multicellular cyanobacterium <i>Arthrospira platensis</i> NIES-39. <i>Journal of Applied Phycology</i> , 2015, 27, 2191-2202.	1.5	25
17	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. <i>PLoS ONE</i> , 2015, 10, e0128417.	1.1	26
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.	1.1	27

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19	Overexpression of flv3 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
20	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.	1.3	33
21	Short-term light adaptation of a cyanobacterium, <i>Synechocystis</i> sp. PCC 6803, probed by time-resolved fluorescence spectroscopy. <i>Plant Physiology and Biochemistry</i> , 2014, 81, 149-154.	2.8	13
22	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
23	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.	1.4	30
24	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.	4.8	82
25	Aqueous size-exclusion chromatographic method for the quantification of cyanobacterial native glycogen. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 930, 90-97.	1.2	20
26	Differences in excitation energy transfer of <i>Arthrospira platensis</i> cells grown in seawater medium and freshwater medium, probed by time-resolved fluorescence spectroscopy. <i>Chemical Physics Letters</i> , 2013, 588, 231-236.	1.2	5
27	Direct conversion of <i>Spirulina</i> to ethanol without pretreatment or enzymatic hydrolysis processes. <i>Energy and Environmental Science</i> , 2013, 6, 1844.	15.6	103
28	Modification of energy-transfer processes in the cyanobacterium, <i>Arthrospira platensis</i> , to adapt to light conditions, probed by time-resolved fluorescence spectroscopy. <i>Photosynthesis Research</i> , 2013, 117, 235-243.	1.6	23
29	Dynamic metabolic profiling of cyanobacterial glycogen biosynthesis under conditions of nitrate depletion. <i>Journal of Experimental Botany</i> , 2013, 64, 2943-2954.	2.4	132
30	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.	0.6	31
31	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.	0.5	76
32	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.	4.8	114
33	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.	1.0	41
34	Diel tuning of photosynthetic systems in ice algae at Saroma-ko Lagoon, Hokkaido, Japan. <i>Polar Science</i> , 2009, 3, 57-72.	0.5	5
35	<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.	2.3	47