

EonSeon Jin

List of Publications by Year in descending order

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114
papers

3,520
citations

136950

32
h-index

168389

53
g-index

120
all docs

120
docs citations

120
times ranked

3776
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA-free two-gene knockout in <i>Chlamydomonas reinhardtii</i> via CRISPR-Cas9 ribonucleoproteins. <i>Scientific Reports</i> , 2016, 6, 30620.	3.3	253
2	Pear fruit extract-assisted room-temperature biosynthesis of gold nanoplates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 75, 584-589.	5.0	226
3	Truncated chlorophyll antenna size of the photosystems? a practical method to improve microalgal productivity and hydrogen production in mass culture. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1257-1264.	7.1	181
4	Comparative analyses of lipidomes and transcriptomes reveal a concerted action of multiple defensive systems against photooxidative stress in <i>Haematococcus pluvialis</i> . <i>Journal of Experimental Botany</i> , 2014, 65, 4317-4334.	4.8	146
5	Targeted knockout of phospholipase A2 to increase lipid productivity in <i>Chlamydomonas reinhardtii</i> for biodiesel production. <i>Bioresource Technology</i> , 2019, 271, 368-374.	9.6	102
6	A mutant of the green alga <i>Dunaliella salina</i> constitutively accumulates zeaxanthin under all growth conditions. <i>Biotechnology and Bioengineering</i> , 2003, 81, 115-124.	3.3	101
7	Photoautotrophic production of macular pigment in a <i>Chlamydomonas reinhardtii</i> strain generated by using DNA-free CRISPR-Cas9 RNP-mediated mutagenesis. <i>Biotechnology and Bioengineering</i> , 2018, 115, 719-728.	3.3	92
8	Draft Nuclear Genome Sequence of the Halophilic and Beta-Carotene-Accumulating Green Alga <i>Dunaliella salina</i> Strain CCAP19/18. <i>Genome Announcements</i> , 2017, 5, .	0.8	83
9	Improving lipid production by strain development in microalgae: Strategies, challenges and perspectives. <i>Bioresource Technology</i> , 2019, 292, 121953.	9.6	79
10	Involvement of zeaxanthin and of the Cbr protein in the repair of photosystem II from photoinhibition in the green alga <i>Dunaliella salina</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1506, 244-259.	1.0	75
11	Stabilized and Immobilized Carbonic Anhydrase on Electrospun Nanofibers for Enzymatic CO ₂ Conversion and Utilization in Expedited Microalgal Growth. <i>Environmental Science & Technology</i> , 2020, 54, 1223-1231.	10.0	69
12	Enhanced lipid productivity in AGP knockout marine microalga <i>Tetraselmis</i> sp. using a DNA-free CRISPR-Cas9 RNP method. <i>Bioresource Technology</i> , 2020, 303, 122932.	9.6	68
13	Antifreeze Protein in Antarctic Marine Diatom, <i>Chaetoceros neogracile</i> . <i>Marine Biotechnology</i> , 2010, 12, 630-639.	2.4	65
14	Synergistic effect of multiple stress conditions for improving microalgal lipid production. <i>Algal Research</i> , 2016, 19, 215-224.	4.6	65
15	Creating Anti-icing Surfaces via the Direct Immobilization of Antifreeze Proteins on Aluminum. <i>Scientific Reports</i> , 2015, 5, 12019.	3.3	61
16	Role of the Reversible Xanthophyll Cycle in the Photosystem II Damage and Repair Cycle in <i>Dunaliella salina</i> . <i>Plant Physiology</i> , 2003, 132, 352-364.	4.8	59
17	Dynamic response of the transcriptome of a psychrophilic diatom, <i>Chaetoceros neogracile</i> , to high irradiance. <i>Planta</i> , 2010, 231, 349-360.	3.2	56
18	Transcriptome analysis of acclimatory responses to thermal stress in Antarctic algae. <i>Biochemical and Biophysical Research Communications</i> , 2008, 367, 635-641.	2.1	55

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19	Utilizing the algicidal activity of aminoclay as a practical treatment for toxic red tides. <i>Scientific Reports</i> , 2013, 3, 1292.	3.3	51
20	Loss of CpSRP54 function leads to a truncated light-harvesting antenna size in <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 45-55.	1.0	49
21	Site-Specific Gene Knock-Out and On-Site Heterologous Gene Overexpression in <i>Chlamydomonas reinhardtii</i> via a CRISPR-Cas9-Mediated Knock-in Method. <i>Frontiers in Plant Science</i> , 2020, 11, 306.	3.6	49
22	Development of a new constitutive expression system for the transformation of the diatom <i>Phaeodactylum tricornutum</i> . <i>Algal Research</i> , 2015, 11, 50-54.	4.6	47
23	Gene expression profile analysis in astaxanthin-induced <i>Haematococcus pluvialis</i> using a cDNA microarray. <i>Planta</i> , 2006, 223, 1231-1242.	3.2	45
24	Cell cycle-dependent regulation of telomerase activity by auxin, abscisic acid and protein phosphorylation in tobacco BY-2 suspension culture cells. <i>Plant Journal</i> , 2002, 29, 617-626.	5.7	42
25	Gene Regulatory Networks for the Haploid-to-Diploid Transition of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2017, 175, 314-332.	4.8	42
26	Up-Regulation of Photoprotection and PSII-Repair Gene Expression by Irradiance in the Unicellular Green Alga <i>Dunaliella salina</i> . <i>Marine Biotechnology</i> , 2006, 8, 120-128.	2.4	39
27	Isolation, identification and characterization of algicidal bacteria against <i>Stephanodiscus hantzschii</i> and <i>Peridinium bipes</i> for the control of freshwater winter algal blooms. <i>Journal of Applied Phycology</i> , 2008, 20, 375-386.	2.8	38
28	Improvement in modular scalability of polymeric thin-film photobioreactor for autotrophic culturing of <i>Haematococcus pluvialis</i> using industrial flue gas. <i>Bioresource Technology</i> , 2018, 249, 519-526.	9.6	38
29	Deletion of the chloroplast LTD protein impedes LHCl import and PSII-LHCl assembly in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 1147-1158.	4.8	37
30	Cryoprotective effect of an antifreeze protein purified from <i>Tenebrio molitor</i> larvae on vegetables. <i>Food Hydrocolloids</i> , 2019, 94, 585-591.	10.7	37
31	Transcriptomic analysis of <i>Haematococcus lacustris</i> during astaxanthin accumulation under high irradiance and nutrient starvation. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 698-705.	2.6	36
32	The generation of metabolic changes for the production of high-purity zeaxanthin mediated by CRISPR-Cas9 in <i>Chlamydomonas reinhardtii</i> . <i>Microbial Cell Factories</i> , 2020, 19, 220.	4.0	35
33	Enhancing lipid productivity by modulating lipid catabolism using the CRISPR-Cas9 system in <i>Chlamydomonas</i> . <i>Journal of Applied Phycology</i> , 2020, 32, 2829-2840.	2.8	35
34	Development of a <i>Dunaliella tertiolecta</i> Strain with Increased Zeaxanthin Content Using Random Mutagenesis. <i>Marine Drugs</i> , 2017, 15, 189.	4.6	34
35	Augmented CO ₂ tolerance by expressing a single H ⁺ -pump enables microalgal valorization of industrial flue gas. <i>Nature Communications</i> , 2021, 12, 6049.	12.8	34
36	Thiazolidinediones as a Novel Class of Algicides Against Red Tide Harmful Algal Species. <i>Applied Biochemistry and Biotechnology</i> , 2010, 162, 2273-2283.	2.9	31

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37	A new coccolith modified electrode-based biosensor using a cognate pair of aptamers with sandwich-type binding. <i>Biosensors and Bioelectronics</i> , 2019, 123, 160-166.	10.1	31
38	Photosystem II antenna complexes CP26 and CP29 are essential for nonphotochemical quenching in <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , 2020, 43, 496-509.	5.7	30
39	Algicidal Activity of Thiazolidinedione Derivatives Against Harmful Algal Blooming Species. <i>Marine Biotechnology</i> , 2012, 14, 312-322.	2.4	27
40	Comparison of the responses of two <i>Dunaliella</i> strains, <i>Dunaliella salina</i> CCAP 19/18 and <i>Dunaliella bardawil</i> to light intensity with special emphasis on carotenogenesis. <i>Algae</i> , 2013, 28, 203-211.	2.3	27
41	Gene expression profiling of <i>Dunaliella</i> sp. acclimated to different salinities. <i>Phycological Research</i> , 2010, 58, 17-28.	1.6	26
42	Isolation and Characterization of Antifreeze Proteins from the Antarctic Marine Microalga <i>Pyramimonas gelidicola</i> . <i>Marine Biotechnology</i> , 2014, 16, 502-512.	2.4	26
43	Introducing <i>Dunaliella</i> LIP promoter containing light-inducible motifs improves transgenic expression in <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology Journal</i> , 2016, 11, 384-392.	3.5	26
44	Expression of the high light-inducible <i>Dunaliella</i> LIP promoter in <i>Chlamydomonas reinhardtii</i> . <i>Planta</i> , 2013, 238, 1147-1156.	3.2	24
45	One-Pot Enzymatic Conversion of Carbon Dioxide and Utilization for Improved Microbial Growth. <i>Environmental Science & Technology</i> , 2015, 49, 4466-4472.	10.0	24
46	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. <i>Bioresource Technology</i> , 2019, 293, 122045.	9.6	23
47	Development of a <i>Chlorella vulgaris</i> mutant by chemical mutagenesis as a producer for natural violaxanthin. <i>Algal Research</i> , 2020, 46, 101790.	4.6	23
48	Identification of distinct pH- and zeaxanthin-dependent quenching in LHCSR3 from <i>Chlamydomonas reinhardtii</i> . <i>ELife</i> , 2021, 10, .	6.0	22
49	Isolation and Characterization of a Xanthophyll Aberrant Mutant of the Green Alga <i>Nannochloropsis oculata</i> . <i>Marine Biotechnology</i> , 2006, 8, 238-245.	2.4	20
50	Enhanced pyruvate metabolism in plastids by overexpression of putative plastidial pyruvate transporter in <i>Phaeodactylum tricornutum</i> . <i>Biotechnology for Biofuels</i> , 2020, 13, 120.	6.2	20
51	Macular pigment-enriched oil production from genome-edited microalgae. <i>Microbial Cell Factories</i> , 2022, 21, 27.	4.0	20
52	The <i>Chlamydomonas</i> bZIP transcription factor BLZ8 confers oxidative stress tolerance by inducing the carbon-concentrating mechanism. <i>Plant Cell</i> , 2022, 34, 910-926.	6.6	20
53	Temporal and spatial regulation of the expression of 1-aminocyclopropane-1-carboxylate oxidase by ethylene in mung bean (<i>Vigna radiata</i>). <i>Physiologia Plantarum</i> , 1999, 105, 132-140.	5.2	19
54	An intracellular antifreeze protein from an Antarctic microalga that responds to various environmental stresses. <i>FASEB Journal</i> , 2014, 28, 4924-4935.	0.5	19

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55	Exogenous Gene Integration for Microalgal Cell Transformation Using a Nanowire-Incorporated Microdevice. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27554-27561.	8.0	19
56	Overexpression of malic enzyme isoform 2 in <i>Chlamydomonas reinhardtii</i> PTS42 increases lipid production. <i>Bioresource Technology Reports</i> , 2019, 7, 100239.	2.7	19
57	Establishment of a Genome Editing Tool Using CRISPR-Cas9 in <i>Chlorella vulgaris</i> UTEX395. <i>International Journal of Molecular Sciences</i> , 2021, 22, 480.	4.1	19
58	Biogenic Nano-Synthesis; towards the Efficient Production of the Biocompatible Gold Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 2771-2775.	1.9	19
59	New Cysteine-Rich Ice-Binding Protein Secreted from Antarctic Microalga, <i>Chloromonas</i> sp.. <i>PLoS ONE</i> , 2016, 11, e0154056.	2.5	18
60	Genomic adaptations of the green alga <i>Dunaliella salina</i> to life under high salinity. <i>Algal Research</i> , 2020, 50, 101990.	4.6	18
61	Conversion of carbon dioxide to oxaloacetate using integrated carbonic anhydrase and phosphoenolpyruvate carboxylase. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1923-1928.	3.4	17
62	Contrasting photoadaptive strategies of two morphologically distinct <i>Dunaliella</i> species under various salinities. <i>Journal of Applied Phycology</i> , 2015, 27, 1053-1062.	2.8	16
63	Identification of the carbonic anhydrases from the unicellular green alga <i>Dunaliella salina</i> strain CCAP 19/18. <i>Algal Research</i> , 2016, 19, 12-20.	4.6	16
64	Biogenic materialization using pear extract intended for the synthesis and design of ordered gold nanostructures. <i>Journal of Materials Science</i> , 2011, 46, 4741-4747.	3.7	15
65	Enhanced efficacy of TD53, a novel algicidal agent, against the harmful algae via the liposomal delivery system. <i>International Journal of Pharmaceutics</i> , 2011, 405, 137-141.	5.2	15
66	Oxaloacetate and malate production in engineered <i>Escherichia coli</i> by expression of codon-optimized phosphoenolpyruvate carboxylase2 gene from <i>Dunaliella salina</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 127-131.	3.4	15
67	Cyanobacteria-specific algicidal mechanism of bioinspired naphthoquinone derivative, NQ 2-0. <i>Scientific Reports</i> , 2018, 8, 11595.	3.3	15
68	Identification and characterization of a new strain of the unicellular green alga <i>Dunaliella salina</i> (Teod.) from Korea. <i>Journal of Microbiology and Biotechnology</i> , 2008, 18, 821-7.	2.1	15
69	Frozen assembly of gold nanoparticles for rapid analysis of antifreeze protein activity. <i>Biosensors and Bioelectronics</i> , 2013, 41, 752-757.	10.1	14
70	Lipid turnover between membrane lipids and neutral lipids via inhibition of diacylglycerol N,N,N-trimethylhomoserine synthesis in <i>Chlamydomonas reinhardtii</i> . <i>Algal Research</i> , 2017, 27, 162-169.	4.6	13
71	Enhanced biomass production by <i>Phaeodactylum tricorutum</i> overexpressing phosphoenolpyruvate carboxylase. <i>Algal Research</i> , 2018, 31, 489-496.	4.6	13
72	The alga <i>Dunaliella</i> revisited: Looking back and moving forward with model and production organisms. <i>Algal Research</i> , 2020, 49, 101948.	4.6	13

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73	Carotenoid Biosynthesis in <i>Dunaliella</i> (Chlorophyta). , 2009, , 147-171.		13
74	Annotation and expression profile analysis of cDNAs from the Antarctic diatom <i>Chaetoceros neogracile</i> . <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 1330-7.	2.1	13
75	Sex-linked deubiquitinase establishes uniparental transmission of chloroplast DNA. <i>Nature Communications</i> , 2022, 13, 1133.	12.8	13
76	Identification and Functional Analysis of the <i>psaD</i> Promoter of <i>Chlorella vulgaris</i> Using Heterologous Model Strains. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1969.	4.1	12
77	A novel thiazolidinedione derivative TD118 showing selective algicidal effects for red tide control. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 1603-1614.	3.6	11
78	De novo transcriptome profile of coccolithophorid alga <i>Emiliania huxleyi</i> CCMP371 at different calcium concentrations with proteome analysis. <i>PLoS ONE</i> , 2019, 14, e0221938.	2.5	11
79	LPA2 protein is involved in photosystem II assembly in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2021, 107, 1648-1662.	5.7	11
80	Identification and Characterization of an Isoform Antifreeze Protein from the Antarctic Marine Diatom, <i>Chaetoceros neogracile</i> and Suggestion of the Core Region. <i>Marine Drugs</i> , 2017, 15, 318.	4.6	10
81	Comparative transcriptome analysis of short-term responses to salt and glycerol hyperosmotic stress in the green alga <i>Dunaliella salina</i> . <i>Algal Research</i> , 2021, 53, 102147.	4.6	10
82	Arginine-fed cultures generates triacylglycerol by triggering nitrogen starvation responses during robust growth in <i>Chlamydomonas</i> . <i>Algal Research</i> , 2020, 46, 101782.	4.6	9
83	Combination of 1,4-naphthoquinone with benzothiazoles had selective algicidal effects against harmful algae. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 932-941.	2.6	8
84	Enhanced production of biomass and lipids by supplying CO ₂ in marine microalga <i>Dunaliella</i> sp.. <i>Journal of Microbiology</i> , 2013, 51, 773-776.	2.8	8
85	Improvement of the phosphoenolpyruvate carboxylase activity of <i>Phaeodactylum tricorutum</i> PEPCase 1 through protein engineering. <i>Enzyme and Microbial Technology</i> , 2014, 60, 64-71.	3.2	7
86	Overproduction of recombinant <i>E. coli</i> malate synthase enhances <i>Chlamydomonas reinhardtii</i> biomass by upregulating heterotrophic metabolism. <i>Bioresource Technology</i> , 2019, 272, 594-598.	9.6	7
87	Molecular basis of ice-binding and cryopreservation activities of type III antifreeze proteins. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 897-909.	4.1	7
88	Gene Expression Analysis of Zeaxanthin Epoxidase from the Marine Microalga <i>Dunaliella tertiolecta</i> in Response to Light/Dark Cycle and Salinity. <i>Journal of Microbiology and Biotechnology</i> , 2019, 29, 1453-1459.	2.1	7
89	Reduction in Phosphoribulokinase Amount and Re-Routing Metabolism in <i>Chlamydomonas reinhardtii</i> CP12 Mutants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2710.	4.1	7
90	Construction of target-specific virus-like particles for the delivery of algicidal compounds to harmful algae. <i>Environmental Microbiology</i> , 2015, 17, 1463-1474.	3.8	6

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91	Development of a species-specific transformation system using the novel endogenous promoter calreticulin from oleaginous microalgae <i>Ettlia</i> sp.. Scientific Reports, 2020, 10, 13947.	3.3	6
92	Calcium-related genes associated with intracellular calcification of <i>Emiliana huxleyi</i> (Haptophyta) CCMP 371. Algae, 2018, 33, 181-189.	2.3	6
93	<scp>NMR</scp> study of the antifreeze activities of active and inactive isoforms of a type <scp>III</scp> antifreeze protein. FEBS Letters, 2016, 590, 4202-4212.	2.8	5
94	Loss of Function in Zeaxanthin Epoxidase of <i>Dunaliella tertiolecta</i> Caused by a Single Amino Acid Mutation within the Substrate-Binding Site. Marine Drugs, 2018, 16, 418.	4.6	5
95	Proteomic Profiling of <i>Emiliana huxleyi</i> Using a Three-Dimensional Separation Method Combined with Tandem Mass Spectrometry. Molecules, 2020, 25, 3028.	3.8	5
96	DNA-free Genome Editing of <i>Chlamydomonas reinhardtii</i> Using CRISPR and Subsequent Mutant Analysis. Bio-protocol, 2017, 7, e2352.	0.4	5
97	Expression of telomerase activity is closely correlated with the capacity for cell division in tobacco plants. Journal of Plant Biology, 2001, 44, 168-171.	2.1	4
98	Homologous sense and antisense expression of a gene in <i>Dunaliella tertiolecta</i> . Planta, 2015, 242, 1051-1058.	3.2	4
99	Vibration-induced stress priming during seed culture increases microalgal biomass in high shear field-cultivation. Bioresource Technology, 2018, 254, 340-346.	9.6	3
100	Association of Phosphatidylinositol-Specific Phospholipase C with Calcium-Induced Biomineralization in the Coccolithophore <i>Emiliana huxleyi</i> . Microorganisms, 2020, 8, 1389.	3.6	3
101	Analysis of Expressed Sequence Tags from the Antarctic Psychrophilic Green Algae, <i>Pyramimonas gelidicola</i> . Journal of Microbiology and Biotechnology, 2012, 22, 902-906.	2.1	3
102	Silicon transporter genes of <i>Fragilariopsis cylindrus</i> (Bacillariophyceae) are differentially expressed during the progression of cell cycle synchronized by Si or light. Algae, 2018, 33, 191-203.	2.3	3
103	The bHLH family NITROGEN REPLETION INSENSITIVE1 represses nitrogen starvation-induced responses in <i>Chlamydomonas reinhardtii</i> .. Plant Journal, 2022, , .	5.7	3
104	Effect of Temperature on Inorganic Carbon Acquisition of <i>Chlamydomonas reinhardtii</i> . Journal of Freshwater Ecology, 2009, 24, 255-260.	1.2	2
105	Discovery of Post-Translational Modifications in <i>Emiliana huxleyi</i> . Molecules, 2021, 26, 2027.	3.8	2
106	Bone Graft Biomineral Complex Coderived from Marine Biocalcification and Biosilicification. ACS Applied Bio Materials, 2021, 4, 6046-6055.	4.6	2
107	Chloroplast Acclimation, Photodamage and Repair Reactions of Photosystem-II in the Model Green Alga <i>Dunaliella salina</i> . , 2009, , 273-299.		2
108	Heterologous Gene Expression System Using the Cold-Inducible CnAFP Promoter in <i>Chlamydomonas reinhardtii</i> . Journal of Microbiology and Biotechnology, 2020, 30, 1777-1784.	2.1	2

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109	Characterization of Ice Binding Proteins from Sea Ice Algae. <i>Methods in Molecular Biology</i> , 2014, 1166, 241-253.	0.9	2
110	Inhibition of <i>4-HYDROXYPHENYLPYRUVATE DIOXYGENASE</i> expression by brassinosteroid reduces carotenoid accumulation in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2022, 73, 1415-1428.	4.8	2
111	Characterization of Ice-Binding Proteins from Sea-Ice. <i>Methods in Molecular Biology</i> , 2020, 2156, 289-302.	0.9	2
112	Antifreeze Protein-Covered Surfaces. , 2020, , 307-326.		1
113	Inhibition of Oxidative Phosphorylation Induces a Rapid Death of GA-Pretreated Aleurone Cells, But Not of ABA-Pretreated Aleurone Cells. <i>Journal of Plant Biology</i> , 2010, 53, 205-213.	2.1	0
114	Editorial: Microalgae Biology and Biotechnology. <i>Frontiers in Plant Science</i> , 2020, 11, 628267.	3.6	0