Saul Purton

List of Publications by Year
in descending order

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102 papers	7,270 citations	66343 42 h-index	56724 83 g-index
106 all docs	106 docs citations	106 times ranked	7604 citing authors

#	Article	IF	Citations
1	ADA: an open-source software platform for plotting and analysis of data from laboratory photobioreactors. Applied Phycology, 2022, 3, 16-26.	1.3	1
2	Cyanobacteria and microalgae in supporting human habitation on Mars. Biotechnology Advances, 2022, 59, 107946.	11.7	32
3	Current challenges for modern vaccines and perspectives for novel treatment alternatives. Journal of Drug Delivery Science and Technology, 2022, 70, 103222.	3.0	3
4	Characterisation of a simple â€˜hanging bagâ€™ photobioreactor for lowâ€cost cultivation of microalgae. Journal of Chemical Technology and Biotechnology, 2022, 97, 608-619.	3.2	11
5	CpPosNeg: A positiveâ€negative selection strategy allowing multiple cycles of markerâ€free engineering of the Chlamydomonas plastome. Biotechnology Journal, 2022, 17, e2200088.	3.5	6
6	Over-expression of a cyanobacterial gene for 1-deoxy-d-xylulose-5-phosphate synthase in the chloroplast of Chlamydomonas reinhardtii perturbs chlorophyll: carotenoid ratios. Journal of King Saud University - Science, 2022, 34, 102141.	3.5	3
7	Algae, biochar and bacteria for acid mine drainage (AMD) remediation: A review. Chemosphere, 2022, 304, 135284.	8.2	28
8	A Simple Technology for Generating Marker-Free Chloroplast Transformants of the Green Alga Chlamydomonas reinhardtii. Methods in Molecular Biology, 2021, 2317, 293-304.	0.9	8
9	Droplet-based microfluidic screening and sorting of microalgal populations for strain engineering applications. Algal Research, 2021, 56, 102293.	4.6	23
10	Editorial: Exploring the Growing Role of Cyanobacteria in Industrial Biotechnology and Sustainability. Frontiers in Microbiology, 2021, 12, 725128.	3.5	3
11	The Chloroplast of Chlamydomonas reinhardtii as a Testbed for Engineering Nitrogen Fixation into Plants. International Journal of Molecular Sciences, 2021, 22, 8806.	4.1	4
12	The Algal Chloroplast as a Testbed for Synthetic Biology Designs Aimed at Radically Rewiring Plant Metabolism. Frontiers in Plant Science, 2021, 12, 708370.	3.6	15
13	The phosphite oxidoreductase gene, ptxD as a bio-contained chloroplast marker and crop-protection tool for algal biotechnology using Chlamydomonas. Applied Microbiology and Biotechnology, 2020, 104, 675-686.	3.6	33
14	An oral delivery system for controlling white spot syndrome virus infection in shrimp using transgenic microalgae. Aquaculture, 2020, 521, 735022.	3.5	35
15	Multigenic engineering of the chloroplast genome in the green alga Chlamydomonas reinhardtii. Microbiology (United Kingdom), 2020, 166, 510-515.	1.8	22
16	Downstream Processing of Chlamydomonas reinhardtii TN72 for Recombinant Protein Recovery. Frontiers in Bioengineering and Biotechnology, 2019, 7, 383.	4.1	9
17	Genetic transformation of the dinoflagellate chloroplast. ELife, 2019, 8, .	6.0	22
18	Green biologics: The algal chloroplast as a platform for making biopharmaceuticals. Bioengineered, 2018, 9, 48-54.	3.2	60

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19	CITRIC: cold-inducible translational readthrough in the chloroplast of Chlamydomonas reinhardtii using a novel temperature-sensitive transfer RNA. Microbial Cell Factories, 2018, 17, 186.	4.0	16
20	Selectable Markers and Reporter Genes for Engineering the Chloroplast of Chlamydomonas reinhardtii. Biology, 2018, 7, 46.	2.8	36
21	Detection and Enhancement of Ketocarotenoid Accumulation in the Newly Isolated Sarcinoid Green Microalga Chlorosarcinopsis PY02. Biology, 2018, 7, 17.	2.8	5
22	Applications of Microalgal Biotechnology for Disease Control in Aquaculture. Biology, 2018, 7, 24.	2.8	71
23	Characterization of Chlorella sorokiniana, UTEX 1230. Biology, 2018, 7, 25.	2.8	44
24	The algal chloroplast as a synthetic biology platform for production of therapeutic proteins. Microbiology (United Kingdom), 2018, 164, 113-121.	1.8	110
25	Synthesis of bacteriophage lytic proteins against Streptococcus pneumoniae in the chloroplast of Chlamydomonas reinhardtii. Plant Biotechnology Journal, 2017, 15, 1130-1140.	8.3	38
26	Cyanobacterial metabolites as a source of sunscreens and moisturizers: a comparison with current synthetic compounds. European Journal of Phycology, 2017, 52, 43-56.	2.0	47
27	The complete sequence of the chloroplast genome of the green microalgaLobosphaera(Parietochloris)incisa. Mitochondrial DNA, 2016, 27, 1-3.	0.6	3
28	Cyanobacteria as Chassis for Industrial Biotechnology: Progress and Prospects. Life, 2016, 6, 42.	2.4	72
29	How mutualisms arise in phytoplankton communities: building ecoâ€evolutionary principles for aquatic microbes. Ecology Letters, 2016, 19, 810-822.	6.4	75
30	Algal biomass and diesel emulsions: An alternative approach for utilizing the energy content of microalgal biomass in diesel engines. Applied Energy, 2016, 172, 80-95.	10.1	29
31	Genetic Engineering of Microalgae: Current Status and Future Prospects. , 2016, , 139-163.		1
32	Codon reassignment to facilitate genetic engineering and biocontainment in the chloroplast of Chlamydomonas reinhardtii. Plant Biotechnology Journal, 2016, 14, 1251-1260.	8.3	37
33	New tools for chloroplast genetic engineering allow the synthesis of human growth hormone in the green alga Chlamydomonas reinhardtii. Applied Microbiology and Biotechnology, 2016, 100, 5467-5477.	3.6	87
34	Improving recombinant protein production in the Chlamydomonas reinhardtii chloroplast using vivid Verde Fluorescent Protein as a reporter. Biotechnology Journal, 2015, 10, 1289-1297.	3.5	23
35	Molecular Structure of Photosynthetic Microbial Biofuels for Improved Engine Combustion and Emissions Characteristics. Frontiers in Bioengineering and Biotechnology, 2015, 3, 49.	4.1	11
36	Expression and membrane-targeting of an active plant cytochrome P450 in the chloroplast of the green alga Chlamydomonas reinhardtii. Phytochemistry, 2015, 110, 22-28.	2.9	44

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37	Fundamental shift in vitamin B12 eco-physiology of a model alga demonstrated by experimental evolution. ISME Journal, 2015, 9, 1446-1455.	9.8	65
38	Biotechnological exploitation of microalgae. Journal of Experimental Botany, 2015, 66, 6975-6990.	4.8	116
39	Evaluation of novel starch-deficient mutants of Chlorella sorokiniana for hyper-accumulation of lipids. Algal Research, 2015, 12, 109-118.	4.6	34
40	Stable expression of a bifunctional diterpene synthase in the chloroplast of Chlamydomonas reinhardtii. Journal of Applied Phycology, 2015, 27, 2271-2277.	2.8	24
41	Cytosine deaminase as a negative selectable marker for the microalgal chloroplast: a strategy for the isolation of nuclear mutations that affect chloroplast gene expression. Plant Journal, 2014, 80, 915-925.	5.7	33
42	Synthesis of Recombinant Products in the Chloroplast. , 2014, , 517-557.		5
43	Domestication of the green alga Chlorella sorokiniana: reduction of antenna size improves light-use efficiency in a photobioreactor. Biotechnology for Biofuels, 2014, 7, 157.	6.2	147
44	Unraveling Vitamin B₁₂-Responsive Gene Regulation in Algae. Plant Physiology, 2014, 165, 388-397.	4.8	76
45	A Simple, Low-Cost Method for Chloroplast Transformation of the Green Alga Chlamydomonas reinhardtii. Methods in Molecular Biology, 2014, 1132, 401-411.	0.9	59
46	Genetic engineering of algal chloroplasts: Progress and prospects. Russian Journal of Plant Physiology, 2013, 60, 491-499.	1.1	65
47	Evaluating new isolates of microalgae from Kazakhstan for biodiesel production. Russian Journal of Plant Physiology, 2013, 60, 549-554.	1.1	2
48	Chitosan flocculation to aid the harvesting of the microalga Chlorella sorokiniana. Bioresource Technology, 2013, 129, 296-301.	9.6	162
49	Combustion and emissions characterization of terpenes with a view to their biological production in cyanobacteria. Fuel, 2013, 111, 670-688.	6.4	48
50	The Requirement for Carotenoids in the Assembly and Function of the Photosynthetic Complexes in Chlamydomonas reinhardtii Â Â Â Â. Plant Physiology, 2012, 161, 535-546.	4.8	42
51	Directionality of Electron-Transfer Reactions in Photosystem I of Prokaryotes: Universality of the Bidirectional Electron-Transfer Model. Journal of Physical Chemistry B, 2010, 114, 15158-15171.	2.6	43
52	Mutations in Radial Spoke Head Protein Genes RSPH9 and RSPH4A Cause Primary Ciliary Dyskinesia with Central-Microtubular-Pair Abnormalities. American Journal of Human Genetics, 2009, 84, 197-209.	6.2	303
53	Molecular Identification and Function of cis- and trans-Acting Determinants for petA Transcript Stability in Chlamydomonas reinhardtii Chloroplasts. Molecular and Cellular Biology, 2008, 28, 5529-5542.	2.3	64
54	The Physiological Relevance of Bidirectional Electron Transfer in Photosystem I of Eukaryotes. , 2008, , 183-186.		0

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55	A highly active histidine-tagged Chlamydomonas reinhardtii Photosystem II preparation for structural and biophysical analysis. Photochemical and Photobiological Sciences, 2007, 6, 1177-1183.	2.9	16
56	Tools and Techniques for Chloroplast Transformation of Chlamydomonas. Advances in Experimental Medicine and Biology, 2007, 616, 34-45.	1.6	65
57	The Little Genome of Apicomplexan Plastids: its raison dâ€™etre and a Possible Explanation for the â€˜Delayed Deathâ€™ Phenomenon. Protist, 2007, 158, 121-133.	1.5	32
58	The Chlamydomonas Genome Reveals the Evolution of Key Animal and Plant Functions. Science, 2007, 318, 245-250.	12.6	2,354
59	The PsbZ subunit of Photosystem II in Synechocystis sp. PCC 6803 modulates electron flow through the photosynthetic electron transfer chain. Photosynthesis Research, 2007, 93, 139-147.	2.9	10
60	Bidirectional electron transfer in photosystem I: Replacement of the symmetry-breaking tryptophan close to the PsaB-bound phylloquinone (A1B) with a glycine residue alters the redox properties of A1B and blocks forward electron transfer at cryogenic temperatures. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1623-1633.	1.0	30
61	Cytochromec6Ais a funnel for thiol oxidation in the thylakoid lumen. FEBS Letters, 2006, 580, 2166-2169.	2.8	16
62	Why are plastid genomes retained in non-photosynthetic organisms?. Trends in Plant Science, 2006, 11, 101-108.	8.8	185
63	Circadian Clock Regulation of Starch Metabolism Establishes GBSSI as a Major Contributor to Amylopectin Synthesis in Chlamydomonas reinhardtii Â. Plant Physiology, 2006, 142, 305-317.	4.8	133
64	The novel cytochrome c6 of chloroplasts: a case of evolutionary bricolage?. Journal of Experimental Botany, 2006, 57, 13-22.	4.8	44
65	ALGAL TRANSGENICS IN THE GENOMIC ERA1. Journal of Phycology, 2005, 41, 1077-1093.	2.3	128
66	Microalgae as bioreactors. Plant Cell Reports, 2005, 24, 629-641.	5.6	243
67	Bidirectional Electron Transfer in Photosystem I:â€‰ Determination of Two Distances between P700+ and A1- in Spin-Correlated Radical Pairs. Biochemistry, 2005, 44, 2119-2128.	2.5	90
68	Structure, circadian regulation and bioinformatic analysis of the unique sigma factor gene in Chlamydomonas reinhardtii. Photosynthesis Research, 2004, 82, 339-349.	2.9	35
69	Two forms of cytochrome c6 in a single eukaryote. Trends in Plant Science, 2004, 9, 474-476.	8.8	17
70	Molecular analysis of the Chlamydomonas nuclear gene encoding PsbW and demonstration that PsbW is a subunit of photosystem II, but not photosystem I. Plant Molecular Biology, 2003, 52, 285-289.	3.9	10
71	Oxygenic Photosynthesis in Algae and Cyanobacteria: Electron Transfer in Photosystems I and II. Advances in Photosynthesis and Respiration, 2003, , 133-156.	1.0	8
72	Bidirectional electron transfer in photosystem I: electron transfer on the PsaA side is not essential for phototrophic growth in Chlamydomonas. Biochimica Et Biophysica Acta - Bioenergetics, 2003, 1606, 43-55.	1.0	73

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73	DNA transfer from chloroplast to nucleus is much rarer in Chlamydomonas than in tobacco. Gene, 2003, 316, 33-38.	2.2	51
74	The transcriptional apparatus of algal plastids. European Journal of Phycology, 2002, 37, 301-311.	2.0	27
75	Photoaccumulation of the PsaB phyllosemiquinone in Photosystem I of Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1556, 13-20.	1.0	24
76	Evidence from time resolved studies of the P700+/A1â^'radical pair for photosynthetic electron transfer on both the PsaA and PsaB branches of the photosystem I reaction centre. FEBS Letters, 2001, 503, 56-60.	2.8	64
77	Site-Directed Mutagenesis of PsaA Residue W693 Affects Phylloquinone Binding and Function in the Photosystem I Reaction Center of Chlamydomonas reinhardtii. Biochemistry, 2001, 40, 2167-2175.	2.5	63
78	Chlamydomonas nuclear mutants that fail to assemble respiratory or photosynthetic electron transfer complexes. Biochemical Society Transactions, 2001, 29, 452-455.	3.4	31
79	Cycloheximide resistance conferred by novel mutations in ribosomal protein L41 of Chlamydomonas reinhardtii. Molecular Genetics and Genomics, 2001, 264, 790-795.	2.1	28
80	The sites of interaction of triphenyltetrazolium chloride with mitochondrial respiratory chains. FEMS Microbiology Letters, 2001, 202, 181-187.	1.8	61
81	The sites of interaction of triphenyltetrazolium chloride with mitochondrial respiratory chains. FEMS Microbiology Letters, 2001, 202, 181-187.	1.8	2
82	Isolation and Characterisation of Chemotactic Mutants of Chlamydomonas reinhardtii obtained by Insertional Mutagenesis. Protist, 2000, 151, 127-137.	1.5	10
83	Tools for chloroplast transformation in Chlamydomonas: expression vectors and a new dominant selectable marker. Molecular Genetics and Genomics, 2000, 263, 404-410.	2.4	101
84	Title is missing!. Photosynthesis Research, 1999, 61, 33-42.	2.9	16
85	Recent Advances in Chlamydomonas Transgenics. Protist, 1998, 149, 23-27.	1.5	22
86	Efficient foreign gene expression inChlamydomonas reinhardtiimediated by an endogenous intron. Plant Journal, 1998, 14, 441-447.	5.7	300
87	The 9-kDa phosphoprotein of photosystem. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1364, 63-72.	1.0	44
88	GENETIC ENGINEERING OF EUKARYGTIC ALGAE: PROGRESS AND PROSPECTS. Journal of Phycology, 1997, 33, 713-722.	2.3	55
89	The bacterial phleomycin resistance gene. Molecular Genetics and Genomics, 1996, 251, 23.	2.4	13
90	Nuclear mutants of Chlamydomonas reinhardtii defective in the biogenesis of the cytochrome b6f complex. Plant Molecular Biology, 1995, 29, 921-932.	3.9	60

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91	Analysis of the proposed Fe-SX binding region of Photosystem 1 by site directed mutation of PsaA in Chlamydomonas reinhardtii. Photosynthesis Research, 1995, 46, 257-264.	2.9	43
92	Characterisation of theARG7gene ofChlamydomonas reinhardtiiand its application to nuclear transformation. European Journal of Phycology, 1995, 30, 141-148.	2.0	50
93	Studies on homologous recombination in the green alga Chlamydomonas reinhardtii. Current Genetics, 1994, 26, 438-442.	1.7	83
94	Complementation of a Chlamydomonas reinhardtii mutant using a genomic cosmid library. Plant Molecular Biology, 1994, 24, 533-537.	3.9	81
95	Playing tag with Chlamydomonas. Trends in Cell Biology, 1994, 4, 299-301.	7.9	55
96	Am improved procedure for the isolation of chloroplast DNA fromChlamydomonas reinhardtii. Plant Molecular Biology Reporter, 1993, 11, 207-211.	1.8	2
97	Studies on the maintenance and expression of cloned DNA fragments in the nuclear genome of the green alga Chlamydomonas Reinhardtii. Physiologia Plantarum, 1990, 78, 254-260.	5.2	37
98	Studies on the maintenance and expression of cloned DNA fragments in the nuclear genome of the green alga Chlamydomonas reinhardtii. Physiologia Plantarum, 1990, 78, 254-260.	5.2	29
99	The plastid rpoA gene encoding a protein homologous to the bacterial RNA polymerase alpha subunit is expressed in pea chloroplasts. Molecular Genetics and Genomics, 1989, 217, 77-84.	2.4	55
100	Nucleotide sequence of the gene for ribosomal protein S11 in pea chloroplast DNA. Nucleic Acids Research, 1987, 15, 1873-1873.	14.5	11
101	Nucleotide sequence of the gene for ribosomal protein L36 in pea chloroplast DNA. Nucleic Acids Research, 1987, 15, 9080-9080.	14.5	5
102	13 Finding the bottleneck: A research strategy for improved biomass production. , 0, , .		0