

Anastasios Melis

List of Publications by Year in descending order

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106
papers

12,015
citations

25014

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docs citations

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times ranked

7234
citing authors

#	ARTICLE	IF	CITATIONS
1	Phycocyanin Fusion Constructs for Heterologous Protein Expression Accumulate as Functional Heterohexameric Complexes in Cyanobacteria. <i>ACS Synthetic Biology</i> , 2022, 11, 1152-1166.	1.9	4
2	Heterologous Î²-phellandrene production by alginate immobilized <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Applied Phycology</i> , 2021, 33, 2157-2168.	1.5	5
3	Recombinant Protein Stability in Cyanobacteria. <i>ACS Synthetic Biology</i> , 2021, 10, 810-825.	1.9	14
4	Engineering microalgae: transition from empirical design to programmable cells. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 1233-1256.	5.1	28
5	Role of an ancient light-harvesting protein of PSI in light absorption and photoprotection. <i>Nature Communications</i> , 2021, 12, 679.	5.8	28
6	Cyanobacterial Production of Biopharmaceutical and Biotherapeutic Proteins. <i>Frontiers in Plant Science</i> , 2020, 11, 237.	1.7	16
7	Fusion constructs enhance heterologous Î²-phellandrene production in <i>Synechocystis</i> sp. PCC 6803. <i>Journal of Applied Phycology</i> , 2020, 32, 2889-2902.	1.5	7
8	Genetic attenuation of alkaloids and nicotine content in tobacco (<i>Nicotiana tabacum</i>). <i>Planta</i> , 2020, 251, 92.	1.6	12
9	Loss of ALBINO3b Insertase Results in Truncated Light-Harvesting Antenna in Diatoms. <i>Plant Physiology</i> , 2019, 181, 1257-1276.	2.3	25
10	Photosynthetic generation of heterologous terpenoids in cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2041-2051.	1.7	32
11	Engineering isoprene synthesis in cyanobacteria. <i>FEBS Letters</i> , 2018, 592, 2059-2069.	1.3	30
12	Downregulation of the CpSRP43 gene expression confers a truncated light-harvesting antenna (TLA) and enhances biomass and leaf-to-stem ratio in <i>Nicotiana tabacum</i> canopies. <i>Planta</i> , 2018, 248, 139-154.	1.6	25
13	Heterologous Leader Sequences in Fusion Constructs Enhance Expression of Geranyl Diphosphate Synthase and Yield of Î²-Phellandrene Production in Cyanobacteria (<i>Synechocystis</i>). <i>ACS Synthetic Biology</i> , 2018, 7, 912-921.	1.9	30
14	Deletion of the chloroplast LTD protein impedes LHCl import and PSI-LHCl assembly in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Experimental Botany</i> , 2018, 69, 1147-1158.	2.4	37
15	Cyanobacterial production of plant essential oils. <i>Planta</i> , 2018, 248, 933-946.	1.6	13
16	Biotechnology of cyanobacterial isoprene production. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6451-6458.	1.7	44
17	CHAPTER 14. Improving Photosynthetic Solar Energy Conversion Efficiency: the Truncated Light-harvesting Antenna (TLA) Concept. <i>Comprehensive Series in Photochemical and Photobiological Sciences</i> , 2018, , 335-354.	0.3	3
18	Heterologous synthesis of geranylinalool, a diterpenol plant product, in the cyanobacterium <i>Synechocystis</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 2791-2800.	1.7	38

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19	Photosynthetic antenna engineering to improve crop yields. <i>Planta</i> , 2017, 245, 1009-1020.	1.6	94
20	Engineering Isoprene Synthase Expression and Activity in Cyanobacteria. <i>ACS Synthetic Biology</i> , 2017, 6, 2281-2292.	1.9	66
21	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.	0.5	49
22	Terpene Hydrocarbons Production in Cyanobacteria. , 2017, , .		2
23	Role of isopentenyl-diphosphate isomerase in heterologous cyanobacterial (<i>Synechocystis</i>) isoprene production. <i>Photosynthesis Research</i> , 2016, 130, 517-527.	1.6	30
24	DNA-free two-gene knockout in <i>Chlamydomonas reinhardtii</i> via CRISPR-Cas9 ribonucleoproteins. <i>Scientific Reports</i> , 2016, 6, 30620.	1.6	253
25	Microalgal hydrogen production research. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12772-12798.	3.8	117
26	Sustainable heterologous production of terpene hydrocarbons in cyanobacteria. <i>Photosynthesis Research</i> , 2016, 130, 123-135.	1.6	60
27	Isoprene production in <i>Synechocystis</i> under alkaline and saline growth conditions. <i>Journal of Applied Phycology</i> , 2015, 27, 1089-1097.	1.5	25
28	A phycocyanin- β -phellandrene synthase fusion enhances recombinant protein expression and β -phellandrene (monoterpene) hydrocarbons production in <i>Synechocystis</i> (cyanobacteria). <i>Metabolic Engineering</i> , 2015, 32, 116-124.	3.6	80
29	The chloroplast signal recognition particle (CpSRP) pathway as a tool to minimize chlorophyll antenna size and maximize photosynthetic productivity. <i>Biotechnology Advances</i> , 2014, 32, 66-72.	6.0	64
30	Carbon partitioning to the terpenoid biosynthetic pathway enables heterologous β -phellandrene production in <i>Escherichia coli</i> cultures. <i>Archives of Microbiology</i> , 2014, 196, 853-861.	1.0	24
31	Maximizing photosynthetic efficiency and culture productivity in cyanobacteria upon minimizing the phycobilisome light-harvesting antenna size. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 1653-1664.	0.5	154
32	Regulation of β -phellandrene synthase gene expression, recombinant protein accumulation, and monoterpene hydrocarbons production in <i>Synechocystis</i> transformants. <i>Planta</i> , 2014, 240, 309-324.	1.6	63
33	Heterologous Expression of the Mevalonic Acid Pathway in Cyanobacteria Enhances Endogenous Carbon Partitioning to Isoprene. <i>Molecular Plant</i> , 2014, 7, 71-86.	3.9	170
34	Paradigm of Monoterpene (β -phellandrene) Hydrocarbons Production via Photosynthesis in Cyanobacteria. <i>Bioenergy Research</i> , 2013, 6, 917-929.	2.2	69
35	Carbon partitioning in photosynthesis. <i>Current Opinion in Chemical Biology</i> , 2013, 17, 453-456.	2.8	88
36	Marker-free genetic engineering of the chloroplast in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Plant Biotechnology Journal</i> , 2013, 11, 818-828.	4.1	33

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37	Modulation of the light-harvesting chlorophyll antenna size in <i>Chlamydomonas reinhardtii</i> by <i>TLA1</i> gene over-expression and RNA interference. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3430-3443.	1.8	43
38	Assembly of the Light-Harvesting Chlorophyll Antenna in the Green Alga <i>Chlamydomonas reinhardtii</i> Requires Expression of the <i>TLA2</i> - <i>CpFTSY</i> Gene. <i>Plant Physiology</i> , 2012, 158, 930-945.	2.3	97
39	Truncated Photosystem Chlorophyll Antenna Size in the Green Microalga <i>Chlamydomonas reinhardtii</i> upon Deletion of the <i>TLA3</i> - <i>CpSRP43</i> Gene. <i>Plant Physiology</i> , 2012, 160, 2251-2260.	2.3	142
40	Isoprene Production Via the Mevalonic Acid Pathway in <i>Escherichia coli</i> (Bacteria). <i>Bioenergy Research</i> , 2012, 5, 814-828.	2.2	104
41	Photosynthesis-to-fuels: from sunlight to hydrogen, isoprene, and botryococcene production. <i>Energy and Environmental Science</i> , 2012, 5, 5531-5539.	15.6	161
42	Polyclonal antibodies against the TLA1 protein also recognize with high specificity the D2 reaction center protein of PSII in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2012, 112, 39-47.	1.6	1
43	Diffusion-based process for carbon dioxide uptake and isoprene emission in gaseous/aqueous two-phase photobioreactors by photosynthetic microorganisms. <i>Biotechnology and Bioengineering</i> , 2012, 109, 100-109.	1.7	102
44	Optimizing Antenna Size to Maximize Photosynthetic Efficiency. <i>Plant Physiology</i> , 2011, 155, 79-85.	2.3	266
45	Photobiological hydrogen production: Recent advances and state of the art. <i>Bioresource Technology</i> , 2011, 102, 8403-8413.	4.8	261
46	Hydrocarbon productivities in different <i>Botryococcus</i> strains: comparative methods in product quantification. <i>Journal of Applied Phycology</i> , 2011, 23, 763-775.	1.5	65
47	The TLA1 Protein Family Members Contain a Variant of the Plain MOV34/MPN Domain. <i>American Journal of Biochemistry and Molecular Biology</i> , 2011, 2, 1-18.	0.6	4
48	Genetic and biochemical analysis of the TLA1 gene in <i>Chlamydomonas reinhardtii</i> . <i>Planta</i> , 2010, 231, 729-740.	1.6	29
49	Engineering a platform for photosynthetic isoprene production in cyanobacteria, using <i>Synechocystis</i> as the model organism. <i>Metabolic Engineering</i> , 2010, 12, 70-79.	3.6	537
50	Extracellular terpenoid hydrocarbon extraction and quantitation from the green microalgae <i>Botryococcus braunii</i> var. <i>Showa</i> . <i>Bioresource Technology</i> , 2010, 101, 2359-2366.	4.8	78
51	Mechanism of REP27 Protein Action in the D1 Protein Turnover and Photosystem II Repair from Photodamage. <i>Plant Physiology</i> , 2009, 151, 88-99.	2.3	24
52	Density equilibrium method for the quantitative and rapid in situ determination of lipid, hydrocarbon, or biopolymer content in microorganisms. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1406-1415.	1.7	41
53	Solar energy conversion efficiencies in photosynthesis: Minimizing the chlorophyll antennae to maximize efficiency. <i>Plant Science</i> , 2009, 177, 272-280.	1.7	651
54	Optical properties of microalgae for enhanced biofuels production. <i>Optics Express</i> , 2008, 16, 21807.	1.7	61

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55	REP27, a Tetratricopeptide Repeat Nuclear-Encoded and Chloroplast-Localized Protein, Functions in D1/32-kD Reaction Center Protein Turnover and Photosystem II Repair from Photodamage. <i>Plant Physiology</i> , 2007, 143, 1547-1560.	2.3	40
56	Development of the light-harvesting chlorophyll antenna in the green alga <i>Chlamydomonas reinhardtii</i> is regulated by the novel <i>Tla1</i> gene. <i>Planta</i> , 2007, 225, 813-829.	1.6	85
57	Photosynthetic H ₂ metabolism in <i>Chlamydomonas reinhardtii</i> (unicellular green algae). <i>Planta</i> , 2007, 226, 1075-1086.	1.6	226
58	Hydrogen Fuel Production by Transgenic Microalgae. <i>Advances in Experimental Medicine and Biology</i> , 2007, 616, 110-121.	0.8	35
59	REP27, a tetratricopeptide repeat nuclear-encoded and chloroplast-localized protein, functions in D1/32-kD reaction center protein turnover and photosystem II repair from photodamage. <i>Plant Physiology</i> , 2007, 143, 1547-60.	2.3	18
60	Bioengineering of Green Algae to Enhance Photosynthesis and Hydrogen Production. , 2006, , 229-240.		9
61	Chloroplast sulfate transport in green algae " genes, proteins and effects. <i>Photosynthesis Research</i> , 2005, 86, 299-307.	1.6	92
62	Trails of Green Alga Hydrogen Research " from Hans Gaffron to New Frontiers. <i>Photosynthesis Research</i> , 2004, 80, 401-409.	1.6	79
63	Genomics of green algal hydrogen research. <i>Photosynthesis Research</i> , 2004, 82, 277-288.	1.6	47
64	Chlorophyll antenna size adjustments by irradiance in <i>Dunaliella salina</i> involve coordinate regulation of chlorophyll a oxygenase (CAO) and <i>Lhcb</i> gene expression. <i>Plant Molecular Biology</i> , 2003, 51, 757-771.	2.0	111
65	Microalgal biotechnology: Carotenoid production by the green algae <i>Dunaliella salina</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2003, 8, 331-337.	1.4	68
66	<i>tla1</i> , a DNA insertional transformant of the green alga <i>Chlamydomonas reinhardtii</i> with a truncated light-harvesting chlorophyll antenna size. <i>Planta</i> , 2003, 217, 49-59.	1.6	239
67	Biosynthesis and Distribution of Chlorophyll among the Photosystems during Recovery of the Green Alga <i>Dunaliella salina</i> from Irradiance Stress. <i>Plant Physiology</i> , 2002, 128, 603-614.	2.3	67
68	Biochemical and morphological characterization of sulfur-deprived and H ₂ -producing <i>Chlamydomonas reinhardtii</i> (green alga). <i>Planta</i> , 2002, 214, 552-561.	1.6	364
69	6Fe9-hydrogenases in green algae: photo-fermentation and hydrogen evolution under sulfur deprivation. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1431-1439.	3.8	130
70	Green alga hydrogen production: progress, challenges and prospects. <i>International Journal of Hydrogen Energy</i> , 2002, 27, 1217-1228.	3.8	267
71	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.	3.8	181
72	Hydrogen Production. <i>Green Algae as a Source of Energy</i> . <i>Plant Physiology</i> , 2001, 127, 740-748.	2.3	564

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73	Hydrogen Production. Green Algae as a Source of Energy. <i>Plant Physiology</i> , 2001, 127, 740-748.	2.3	34
74	Title is missing!. <i>Journal of Applied Phycology</i> , 2001, 13, 25-34.	1.5	46
75	Absence of Lutein, Violaxanthin and Neoxanthin Affects the Functional Chlorophyll Antenna Size of Photosystem-II but not that of Photosystem-I in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 482-491.	1.5	87
76	Photosynthetic apparatus organization and function in the wild type and a chlorophyll b -less mutant of <i>Chlamydomonas reinhardtii</i> . Dependence on carbon source. <i>Planta</i> , 2000, 211, 335-344.	1.6	124
77	Sustained Photobiological Hydrogen Gas Production upon Reversible Inactivation of Oxygen Evolution in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2000, 122, 127-136.	2.3	1,014
78	Photosystem-II damage and repair cycle in chloroplasts: what modulates the rate of photodamage in vivo?. <i>Trends in Plant Science</i> , 1999, 4, 130-135.	4.3	678
79	Title is missing!. <i>Photosynthesis Research</i> , 1998, 56, 175-184.	1.6	130
80	Title is missing!. <i>Journal of Applied Phycology</i> , 1998, 10, 515-525.	1.5	237
81	Photoinhibitory damage is modulated by the rate of photosynthesis and by the photosystem II light-harvesting chlorophyll antenna size. <i>Planta</i> , 1998, 205, 288-296.	1.6	104
82	Title is missing!. <i>Photosynthesis Research</i> , 1997, 53, 173-184.	1.6	12
83	Chromatic regulation in <i>Chlamydomonas reinhardtii</i> alters photosystem stoichiometry and improves the quantum efficiency of photosynthesis. <i>Photosynthesis Research</i> , 1996, 47, 253-265.	1.6	80
84	Photoinhibition and repair in <i>Dunaliella salina</i> acclimated to different growth irradiances. <i>Planta</i> , 1996, 198, 640-646.	1.6	116
85	A nomenclature for the genes encoding the chlorophylla/b-binding proteins of higher plants. <i>Plant Molecular Biology Reporter</i> , 1992, 10, 242-253.	1.0	155
86	Dynamics of photosynthetic membrane composition and function. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1991, 1058, 87-106.	0.5	437
87	The physiological significance of photosystem II heterogeneity in chloroplasts. <i>Photosynthesis Research</i> , 1990, 23, 105-109.	1.6	155
88	Response of the Photosynthetic Apparatus in <i>Dunaliella salina</i> (Green Algae) to Irradiance Stress. <i>Plant Physiology</i> , 1990, 93, 1433-1440.	2.3	162
89	Minimum photosynthetic unit size in System I and System II of barley chloroplasts. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 934, 151-155.	0.5	73
90	Chlorophyll b deficiency in soybean mutants. I. Effects on photosystem stoichiometry and chlorophyll antenna size. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1988, 932, 130-137.	0.5	61

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91	Compensatory Alterations in the Photochemical Apparatus of a Photoregulatory, Chlorophyll <i>b</i> -Deficient Mutant of Maize. <i>Plant Physiology</i> , 1988, 87, 365-370.	2.3	50
92	Photoinhibition: Impairment of the primary charge separation between P-680 and pheophytin in photosystem II of chloroplasts. <i>FEBS Letters</i> , 1987, 214, 370-374.	1.3	70
93	QUANTITATION OF PHOTOSYSTEM II ACTIVITY IN SPINACH CHLOROPLASTS. EFFECT OF ARTIFICIAL QUINONE ACCEPTORS. <i>Photochemistry and Photobiology</i> , 1987, 46, 543-550.	1.3	16
94	LIGHT ABSORPTION AND ELECTRON TRANSPORT BALANCE BETWEEN PHOTOSYSTEM II AND PHOTOSYSTEM I IN SPINACH CHLOROPLASTS. <i>Photochemistry and Photobiology</i> , 1987, 45, 129-136.	1.3	146
95	Photochemical apparatus organization in the thylakoid membrane of <i>Hordeum vulgare</i> wild type and chlorophyll <i>b</i> -less chlorina f2 mutant. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 851, 331-339.	0.5	83
96	Quantitation of plastoquinone photoreduction in spinach chloroplasts. <i>Photosynthesis Research</i> , 1986, 8, 3-16.	1.6	51
97	BIMANES ²⁶ . AN ELECTRON TRANSFER REACTION BETWEEN PHOTOSYSTEM II AND MONOBROMOBIMANE INDUCES STATIC CHLOROPHYLL <i>a</i> QUENCHING IN SPINACH CHLOROPLASTS. <i>Photochemistry and Photobiology</i> , 1986, 43, 583-589.	1.3	7
98	Differential detergent-solubilization of integral thylakoid membrane complexes in spinach chloroplasts. Localization of photosystem II, cytochrome <i>b6-f</i> complex and photosystem I. <i>FEBS Journal</i> , 1986, 160, 389-393.	0.2	19
99	Photochemical Apparatus Organization in the Chloroplasts of Two <i>Beta vulgaris</i> Genotypes. <i>Plant Physiology</i> , 1985, 79, 872-878.	2.3	22
100	Phycobilisome-photosystem II association in <i>Synechococcus</i> 6301 (Cyanophyceae). <i>FEBS Letters</i> , 1985, 181, 79-82.	1.3	46
101	Photochemical Apparatus Organization in <i>Anacystis nidulans</i> (Cyanophyceae). <i>Plant Physiology</i> , 1984, 74, 67-71.	2.3	68
102	Light regulation of photosynthetic membrane structure, organization, and function. <i>Journal of Cellular Biochemistry</i> , 1984, 24, 271-285.	1.2	83
103	Structural and functional organization of the photosystems in spinach chloroplasts. Antenna size, relative electron-transport capacity, and chlorophyll composition. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1983, 724, 473-484.	0.5	186
104	Phosphorylation of chloroplast thylakoid membrane proteins does not increase the absorption cross-section of photosystem I. <i>FEBS Letters</i> , 1983, 160, 277-280.	1.3	49
105	HETEROGENEITY OF THE PHOTOCHEMICAL CENTERS IN SYSTEM II OF CHLOROPLASTS*. <i>Photochemistry and Photobiology</i> , 1976, 23, 343-350.	1.3	277
106	Photosynthetic Water-Splitting for Hydrogen Production. , 0, , 273-291.		15