David H Turpin

List of Publications by Year
in descending order

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78	3,934	94433	123424
papers	citations	37	61
		h-index	g-index

80	80	80	2489
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determination of the site of CO2 sensing in poplar: is the area-based N content and anatomy of new leaves determined by their immediate CO2 environment or by the CO2 environment of mature leaves?. Journal of Experimental Botany, 2011, 62, 2787-2796.	4.8	17
2	Stomatal development in new leaves is related to the stomatal conductance of mature leaves in poplar (Populus trichocarpaÃ—P. deltoides). Journal of Experimental Botany, 2006, 57, 373-380.	4.8	114
3	Characterization of NADP-dependent malic enzyme from developing castor oil seed endosperm. Archives of Biochemistry and Biophysics, 2004, 429, 134-144.	3.0	38
4	In Vitro Phosphorylation of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum minutum. Plant and Cell Physiology, 2002, 43, 785-792.	3.1	17
5	A Method for Activity Staining after Native Polyacrylamide Gel Electrophoresis Using a Coupled Enzyme Assay and Fluorescence Detection: Application to the Analysis of Several Glycolytic Enzymes. Analytical Biochemistry, 2002, 300, 94-99.	2.4	25
6	Two Unrelated Phosphoenolpyruvate Carboxylase Polypeptides Physically Interact in the High Molecular Mass Isoforms of This Enzyme in the Unicellular Green Alga Selenastrum minutum. Journal of Biological Chemistry, 2001, 276, 12588-12597.	3.4	46
7	Whole-Plant Gas Exchange and Reductive Biosynthesis in White Lupin. Plant Physiology, 2001, 126, 1555-1565.	4.8	37
8	Title is missing!. Water, Air, and Soil Pollution, 1998, 101, 25-44.	2.4	23
9	Influence of the carbon concentrating mechanism on carbon stable isotope discrimination by the marine diatom Thalassiosira pseudonana. Canadian Journal of Botany, 1998, 76, 1098-1103.	1.1	7
10	In Vitro Reconstitution of Electron Transport from Glucose-6-Phosphate and NADPH to Nitrite1. Plant Physiology, 1998, 117, 303-309.	4.8	26
11	Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from Chlamydomonas reinhardtii. Biochemical Journal, 1998, 331, 201-209.	3.7	53
12	Electron Flow from Nadph to Ferredoxin in Support of NO 2 âˆ’ Reduction. , 1998, , 3625-3628.		0
13	Characterization of High and Low Molecular Mass Isoforms of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum Minutum. , 1998, , 3403-3406.		0
14	Purification and Properties of Four Phosphoenolpyruvate Carboxylase Isoforms from the Green AlgaSelenastrum minutum:Evidence That Association of the 102-kDa Catalytic Subunit with Unrelated Polypeptides May Modify the Physical and Kinetic Properties of the Enzyme. Archives of Biochemistry and Biophysics, 1996, 332, 47-57.	3.0	37
15	Interaction of Carbon and Nitrogen Metabolism in Photosynthetic Cells: Clues from Unicellular Algae. , 1995, , 4245-4250.		0
16	The Role of Short and Long Term Regulation of Glucose 6-Phosphate Dehydrogenase in The Assimilation of Nitrogen. , 1995, , 4307-4310.		0
17	Interactions between Phosphate Uptake, Respiration and Photosynthesis. , 1995, , 4255-4258.		0
18	The relationship between nodule adenylates and the regulation of nitrogenase activity by O2 in soybean. Physiologia Plantarum, 1994, 91, 687-695.	5.2	13

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19	Phytoplankton growth and CO2. Nature, 1993, 363, 678-678.	27.8	2
20	PURIFICATION AND CHARACTERIZATION OF TWO FORMS OF PHOSPHOGLYCERATE KINASE FROM THE GREEN ALGA SELENASTRUM MINUTUM1. Journal of Phycology, 1993, 29, 777-786.	2.3	5
21	Influence of changes in CO2 concentration and temperature on marine phytoplankton 13C/12C ratios: an analysis of possible mechanisms. Global and Planetary Change, 1993, 8, 1-12.	3.5	39
22	Purification and Molecular and Immunological Characterization of a Unique Phosphoribulokinase from the Green Alga Selenastrum minutum. Plant Physiology, 1992, 98, 82-88.	4.8	10
23	Evidence for Activation of the Oxidative Pentose Phosphate Pathway during Photosynthetic Assimilation of NO3â^' but Not NH4+ by a Green Alga. Plant Physiology, 1992, 100, 2096-2099.	4.8	22
24	Activation of Respiration to Support Dark NO3â^' and NH4+ Assimilation in the Green Alga Selenastrum minutum. Plant Physiology, 1992, 99, 495-500.	4.8	28
25	Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. Plant Physiology, 1992, 100, 820-825.	4.8	62
26	Malate- and Pyruvate-Dependent Fatty Acid Synthesis in Leucoplasts from Developing Castor Endosperm. Plant Physiology, 1992, 98, 1233-1238.	4.8	152
27	Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of Brassica napus. Planta, 1992, 187, 198-202.	3.2	27
28	PURIFICATION AND CHARACTERIZATION OF PYRUVATE KINASE FROM THE GREEN ALGA CHLAMYDOMONAS REINHARDTII1. Journal of Phycology, 1992, 28, 472-481.	2.3	13
29	EFFECTS OF INORGANIC N AVAILABILITY ON ALGAL PHOTOSYNTHESIS AND CARBON METABOLISM. Journal of Phycology, 1991, 27, 14-20.	2.3	367
30	Demonstration of Both a Photosynthetic and a Nonphotosynthetic CO₂ Requirement for NH₄⁺ Assimilation in the Green Alga Selenastrum minutum. Plant Physiology, 1991, 95, 192-196.	4.8	27
31	Dark Ammonium Assimilation Reduces the Plastoquinone Pool of Photosystem II in the Green Alga Selenastrum minutum. Plant Physiology, 1991, 96, 513-517.	4.8	14
32	Effects of Phosphorus Limitation on Respiratory Metabolism in the Green Alga Selenastrum minutum. Plant Physiology, 1991, 95, 1089-1095.	4.8	152
33	The inorganic carbon requirements for nitrogen assimilation. Canadian Journal of Botany, 1991, 69, 1139-1145.	1.1	34
34	Anaerobic Metabolism in the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1991, 95, 655-658.	4.8	28
35	Relationship between NH⁺₄ Assimilation Rate and in Vivo Phosphoenolpyruvate Carboxylase Activity. Plant Physiology, 1990, 94, 284-290.	4.8	94
36	Anaerobic Metabolism in the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1990, 94, 1124-1130.	4.8	19

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37	Cytochrome and Alternative Pathway Respiration in Green Algae. Plant Physiology, 1990, 93, 356-360.	4.8	39
38	Fructose 1,6-Bisphosphatase in the Green Alga Selenastrum minutum. Plant Physiology, 1990, 93, 1460-1465.	4.8	7
39	Metabolite Regulation of Partially Purified Soybean Nodule Phosphoenolpyruvate Carboxylase. Plant Physiology, 1990, 94, 1429-1435.	4.8	52
40	Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum minutum. Plant Physiology, 1990, 93, 1303-1311.	4.8	75
41	Molecular, Kinetic, and Immunological Properties of the 6-Phosphofructokinase from the Green Alga Selenastrum minutum. Plant Physiology, 1990, 93, 871-879.	4.8	22
42	Regulation of Carbon Partitioning to Respiration during Dark Ammonium Assimilation by the Green Alga Selenastrum minutum. Plant Physiology, 1990, 93, 166-175.	4.8	74
43	Cytochrome and Alternative Pathway Respiration during Transient Ammonium Assimilation by N-Limited Chlamydomonas reinhardtii. Plant Physiology, 1990, 94, 1131-1136.	4.8	16
44	Anaerobic Metabolism in the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1990, 94, 1116-1123.	4.8	43
45	Regulation of photosynthetic light harvesting by nitrogen assimilation in the green alga Selenastrum minutum. FEBS Letters, 1990, 263, 99-103.	2.8	60
46	Significance of Phosphoenolpyruvate Carboxylase during Ammonium Assimilation. Plant Physiology, 1989, 89, 1150-1157.	4.8	74
47	Anaerobic Carbon Metabolism by the Tricarboxylic Acid Cycle. Plant Physiology, 1989, 91, 1551-1557.	4.8	35
48	Chlorophyll a Fluorescence Predicts Total Photosynthetic Electron Flow to CO₂ or NO₃^{â˜’}/NO₂^{â˜’} under Transient Conditions. Plant Physiology, 1989, 91, 331-337.	4.8	59
49	The Relationship between Ribulose Bisphosphate Concentration, Dissolved Inorganic Carbon (DIC) Transport and DIC-Limited Photosynthesis in the Cyanobacterium Synechococcus leopoliensis Grown at Different Concentrations of Inorganic Carbon. Plant Physiology, 1989, 90, 720-727.	4.8	31
50	Mitochondrial Respiration Can Support NO₃^{â˜’} and NO₂^{â˜’} Reduction during Photosynthesis. Plant Physiology, 1989, 89, 409-415.	4.8	100
51	Short-Term Metabolite Changes during Transient Ammonium Assimilation by the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1989, 91, 749-755.	4.8	43
52	Respiratory losses in the light in a marine diatom: Measurements by shortâ€term mass spectrometry. Limnology and Oceanography, 1989, 34, 1153-1161.	3.1	114
53	Pyruvate kinase isozymes from the green alga, Selenastrum minutum. Archives of Biochemistry and Biophysics, 1989, 269, 219-227.	3.0	58
54	Pyruvate kinase isozymes from the green alga, Selenastrum minutum. Archives of Biochemistry and Biophysics, 1989, 269, 228-238.	3.0	74

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55	Steady-State Chlorophyll a Fluorescence Transients during Ammonium Assimilation by the N-Limited Green Alga Selenastrum minutum. Plant Physiology, 1988, 88, 97-101.	4.8	32
56	Ammonium Assimilation Requires Mitochondrial Respiration in the Light. Plant Physiology, 1988, 86, 688-692.	4.8	81
57	RuBP Limitation of Photosynthetic Carbon Fixation during NH₃ Assimilation. Plant Physiology, 1988, 87, 395-401.	4.8	45
58	The Role of External Carbonic Anhydrase in Inorganic Carbon Acquisition by Chlamydomonas reinhardii at Alkaline pH. Plant Physiology, 1987, 83, 92-96.	4.8	96
59	The Path of Carbon Flow during NO3â^'-Induced Photosynthetic Suppression in N-Limited Selenastrum minutum. Plant Physiology, 1987, 83, 97-104.	4.8	30
60	GROWTH RATE DEPENDENT OPTIMUM RATIOS IN SELENASTRUM MINUTUM (CHLOROPHYTA): IMPLICATIONS FOR COMPETITION, COEXISTENCE AND STABILITY IN PHYTOPLANKTON COMMUNITIES2. Journal of Phycology, 1986, 22, 94-102.	2.3	18
61	Inexpensive, Computer-Automated HPLC for Ion Exchange Separation and Quantification of Amino Acids in Physiological Fluids. Journal of Liquid Chromatography and Related Technologies, 1986, 9, 2199-2221.	1.0	5
62	Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited Selenastrum minutum. Plant Physiology, 1986, 81, 273-279.	4.8	95
63	Photosynthetic Adaptation by Synechococcus leopoliensis in Response to Exogenous Dissolved Inorganic Carbon. Plant Physiology, 1986, 80, 1038-1040.	4.8	54
64	Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited Selenastrum minutum. Plant Physiology, 1986, 82, 708-712.	4.8	22
65	Modeling the C Economy of Anabaena flos-aquae. Plant Physiology, 1985, 78, 746-752.	4.8	42
66	Effect of N Source on the Steady State Growth and N Assimilation of P-limited Anabaena flos-aquae. Plant Physiology, 1985, 78, 739-745.	4.8	27
67	PREDICTING THE KINETICS OF DISSOLVED INORGANIC CARBON LIMITED GROWTH FROM THE SHORTâ€TERM KINETICS OF PHOTOSYNTHESIS IN SYNECHOCOCCUS LEOPOLIENSIS (CYANOPHYTA)¹. Journal of Phycology, 1985, 21, 409-418.	2.3	15
68	STEADYâ€STATE LUXURY CONSUMPTION AND THE CONCEPT OF OPTIMUM NUTRIENT RATIOS: A STUDY WITH PHOSPHATE AND NITRATE LIMITED SELENASTRUM MINUTUM (CHLOROPHYTA)¹. Journal of Phycology, 1985, 21, 592-602.	2.3	147
69	Growth and Photosynthesis of the Cyanobacterium Synechococcus leopoliensis in HCO₃^{â^'}-Limited Chemostats. Plant Physiology, 1984, 75, 1064-1070.	4.8	78
70	CARBOXYSOME CONTENT OF SYNECHOCOCCUS LEOPOLIENSIS (CYANOPHYTA) IN RESPONSE TO INORGANIC CARBON1. Journal of Phycology, 1984, 20, 249-253.	2.3	73
71	AMMONIUM INDUCED PHOTOSYNTHETIC SUPPRESSION IN AMMONIUM LIMITED DUNALIELLA TERTIOLECTA (CHLOROPHYTA)1. Journal of Phycology, 1983, 19, 70-76.	2.3	42
72	Physiological responses of two marine diatoms to pulsed additions of ammonium. Journal of Experimental Marine Biology and Ecology, 1982, 63, 173-181.	1.5	27

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73	The Manipulation of Physical, Chemical, and Biological Factors to Select Species from Natural Phytoplankton Communities. , 1982, , 275-289.		26
74	On limiting nutrient patchiness and phytoplankton growth: a conceptual approach. Journal of Plankton Research, 1981, 3, 421-431.	1.8	37
75	Cell Size Manipulation in Natural Marine, Planktonic, Diatom Communities. Canadian Journal of Fisheries and Aquatic Sciences, 1980, 37, 1193-1195.	1.4	76
76	Limiting nutrient patchiness and its rÃ1e in phytoplankton ecology. Journal of Experimental Marine Biology and Ecology, 1979, 39, 151-166.	1.5	191
77	FLUCTUATIONS IN FREE AMINO ACID POOLS OF GYMNODINIUM SIMPLEX (DINOPHYCEAE) IN RESPONSE TO AMMONIA PERTURBATION: EVIDENCE FOR GLUTAMINE SYNTHETASE PATHWAY1 ,2. Journal of Phycology, 1978, 14, 461-464.	2.3	31
78	Metabolic interactions during photosynthetic and respiratory nitrogen assimilation in a green alga. , 0, , 49-78.		0