

# David H Turpin

## List of Publications by Year in descending order

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78  
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3,934  
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docs citations

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2489  
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#	ARTICLE	IF	CITATIONS
1	EFFECTS OF INORGANIC N AVAILABILITY ON ALGAL PHOTOSYNTHESIS AND CARBON METABOLISM. <i>Journal of Phycology</i> , 1991, 27, 14-20.	1.0	367
2	Limiting nutrient patchiness and its role in phytoplankton ecology. <i>Journal of Experimental Marine Biology and Ecology</i> , 1979, 39, 151-166.	0.7	191
3	Effects of Phosphorus Limitation on Respiratory Metabolism in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 1089-1095.	2.3	152
4	Malate- and Pyruvate-Dependent Fatty Acid Synthesis in Leucoplasts from Developing Castor Endosperm. <i>Plant Physiology</i> , 1992, 98, 1233-1238.	2.3	152
5	STEADY-STATE LUXURY CONSUMPTION AND THE CONCEPT OF OPTIMUM NUTRIENT RATIOS: A STUDY WITH PHOSPHATE AND NITRATE LIMITED <i>SELENASTRUM MINUTUM</i> (CHLOROPHYTA) <sup>1</sup> . <i>Journal of Phycology</i> , 1985, 21, 592-602.	1.0	147
6	Respiratory losses in the light in a marine diatom: Measurements by short-term mass spectrometry. <i>Limnology and Oceanography</i> , 1989, 34, 1153-1161.	1.6	114
7	Stomatal development in new leaves is related to the stomatal conductance of mature leaves in poplar ( <i>Populus trichocarpa</i> — <i>P. deltoides</i> ). <i>Journal of Experimental Botany</i> , 2006, 57, 373-380.	2.4	114
8	Mitochondrial Respiration Can Support NO <sub>3</sub> <sup>-</sup> and NO <sub>2</sub> <sup>-</sup> Reduction during Photosynthesis. <i>Plant Physiology</i> , 1989, 89, 409-415.	2.3	100
9	The Role of External Carbonic Anhydrase in Inorganic Carbon Acquisition by <i>Chlamydomonas reinhardtii</i> at Alkaline pH. <i>Plant Physiology</i> , 1987, 83, 92-96.	2.3	96
10	Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1986, 81, 273-279.	2.3	95
11	Relationship between NH <sub>4</sub> <sup>+</sup> Assimilation Rate and <i>in Vivo</i> Phosphoenolpyruvate Carboxylase Activity. <i>Plant Physiology</i> , 1990, 94, 284-290.	2.3	94
12	Ammonium Assimilation Requires Mitochondrial Respiration in the Light. <i>Plant Physiology</i> , 1988, 86, 688-692.	2.3	81
13	Growth and Photosynthesis of the Cyanobacterium <i>Synechococcus leopoliensis</i> in HCO <sub>3</sub> <sup>-</sup> -Limited Chemostats. <i>Plant Physiology</i> , 1984, 75, 1064-1070.	2.3	78
14	Cell Size Manipulation in Natural Marine, Planktonic, Diatom Communities. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1980, 37, 1193-1195.	0.7	76
15	Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 1303-1311.	2.3	75
16	Significance of Phosphoenolpyruvate Carboxylase during Ammonium Assimilation. <i>Plant Physiology</i> , 1989, 89, 1150-1157.	2.3	74
17	Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 228-238.	1.4	74
18	Regulation of Carbon Partitioning to Respiration during Dark Ammonium Assimilation by the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 166-175.	2.3	74

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19	CARBOXYSOME CONTENT OF SYNECHOCOCCUS LEOPOLIENSIS (CYANOPHYTA) IN RESPONSE TO INORGANIC CARBON. <i>Journal of Phycology</i> , 1984, 20, 249-253.	1.0	73
20	Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. <i>Plant Physiology</i> , 1992, 100, 820-825.	2.3	62
21	Regulation of photosynthetic light harvesting by nitrogen assimilation in the green alga <i>Selenastrum minutum</i> . <i>FEBS Letters</i> , 1990, 263, 99-103.	1.3	60
22	Chlorophyll <i>a</i> Fluorescence Predicts Total Photosynthetic Electron Flow to CO <sub>2</sub> or NO <sub>3</sub> <sup>-</sup> /NO <sub>2</sub> <sup>-</sup> under Transient Conditions. <i>Plant Physiology</i> , 1989, 91, 331-337.	2.3	59
23	Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 219-227.	1.4	58
24	Photosynthetic Adaptation by <i>Synechococcus leopoliensis</i> in Response to Exogenous Dissolved Inorganic Carbon. <i>Plant Physiology</i> , 1986, 80, 1038-1040.	2.3	54
25	Purification and characterization of high- and low-molecular-mass isoforms of phosphoenolpyruvate carboxylase from <i>Chlamydomonas reinhardtii</i> . <i>Biochemical Journal</i> , 1998, 331, 201-209.	1.7	53
26	Metabolite Regulation of Partially Purified Soybean Nodule Phosphoenolpyruvate Carboxylase. <i>Plant Physiology</i> , 1990, 94, 1429-1435.	2.3	52
27	Two Unrelated Phosphoenolpyruvate Carboxylase Polypeptides Physically Interact in the High Molecular Mass Isoforms of This Enzyme in the Unicellular Green Alga <i>Selenastrum minutum</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 12588-12597.	1.6	46
28	RuBP Limitation of Photosynthetic Carbon Fixation during NH <sub>3</sub> Assimilation. <i>Plant Physiology</i> , 1988, 87, 395-401.	2.3	45
29	Short-Term Metabolite Changes during Transient Ammonium Assimilation by the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1989, 91, 749-755.	2.3	43
30	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1116-1123.	2.3	43
31	AMMONIUM INDUCED PHOTOSYNTHETIC SUPPRESSION IN AMMONIUM LIMITED <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYTA). <i>Journal of Phycology</i> , 1983, 19, 70-76.	1.0	42
32	Modeling the C Economy of <i>Anabaena flos-aquae</i> . <i>Plant Physiology</i> , 1985, 78, 746-752.	2.3	42
33	Cytochrome and Alternative Pathway Respiration in Green Algae. <i>Plant Physiology</i> , 1990, 93, 356-360.	2.3	39
34	Influence of changes in CO <sub>2</sub> concentration and temperature on marine phytoplankton 13C/12C ratios: an analysis of possible mechanisms. <i>Global and Planetary Change</i> , 1993, 8, 1-12.	1.6	39
35	Characterization of NADP-dependent malic enzyme from developing castor oil seed endosperm. <i>Archives of Biochemistry and Biophysics</i> , 2004, 429, 134-144.	1.4	38
36	On limiting nutrient patchiness and phytoplankton growth: a conceptual approach. <i>Journal of Plankton Research</i> , 1981, 3, 421-431.	0.8	37

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37	Purification and Properties of Four Phosphoenolpyruvate Carboxylase Isoforms from the Green Alga <i>Selenastrum minutum</i> : Evidence That Association of the 102-kDa Catalytic Subunit with Unrelated Polypeptides May Modify the Physical and Kinetic Properties of the Enzyme. <i>Archives of Biochemistry and Biophysics</i> , 1996, 332, 47-57.	1.4	37
38	Whole-Plant Gas Exchange and Reductive Biosynthesis in White Lupin. <i>Plant Physiology</i> , 2001, 126, 1555-1565.	2.3	37
39	Anaerobic Carbon Metabolism by the Tricarboxylic Acid Cycle. <i>Plant Physiology</i> , 1989, 91, 1551-1557.	2.3	35
40	The inorganic carbon requirements for nitrogen assimilation. <i>Canadian Journal of Botany</i> , 1991, 69, 1139-1145.	1.2	34
41	Steady-State Chlorophyll <i>a</i> Fluorescence Transients during Ammonium Assimilation by the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1988, 88, 97-101.	2.3	32
42	FLUCTUATIONS IN FREE AMINO ACID POOLS OF GYMNODINIUM SIMPLEX (DINOPHYCEAE) IN RESPONSE TO AMMONIA PERTURBATION: EVIDENCE FOR GLUTAMINE SYNTHETASE PATHWAY1 ,2. <i>Journal of Phycology</i> , 1978, 14, 461-464.	1.0	31
43	The Relationship between Ribulose Bisphosphate Concentration, Dissolved Inorganic Carbon (DIC) Transport and DIC-Limited Photosynthesis in the Cyanobacterium <i>Synechococcus leopoliensis</i> Grown at Different Concentrations of Inorganic Carbon. <i>Plant Physiology</i> , 1989, 90, 720-727.	2.3	31
44	The Path of Carbon Flow during NO <sub>3</sub> <sup>-</sup> -Induced Photosynthetic Suppression in N-Limited <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1987, 83, 97-104.	2.3	30
45	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 655-658.	2.3	28
46	Activation of Respiration to Support Dark NO <sub>3</sub> <sup>-</sup> and NH <sub>4</sub> <sup>+</sup> Assimilation in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1992, 99, 495-500.	2.3	28
47	Physiological responses of two marine diatoms to pulsed additions of ammonium. <i>Journal of Experimental Marine Biology and Ecology</i> , 1982, 63, 173-181.	0.7	27
48	Effect of N Source on the Steady State Growth and N Assimilation of P-limited <i>Anabaena flos-aquae</i> . <i>Plant Physiology</i> , 1985, 78, 739-745.	2.3	27
49	Demonstration of Both a Photosynthetic and a Nonphotosynthetic CO <sub>2</sub> Requirement for NH <sub>4</sub> <sup>+</sup> Assimilation in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 192-196.	2.3	27
50	Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of <i>Brassica napus</i> . <i>Planta</i> , 1992, 187, 198-202.	1.6	27
51	In Vitro Reconstitution of Electron Transport from Glucose-6-Phosphate and NADPH to Nitrite1. <i>Plant Physiology</i> , 1998, 117, 303-309.	2.3	26
52	The Manipulation of Physical, Chemical, and Biological Factors to Select Species from Natural Phytoplankton Communities. , 1982, , 275-289.		26
53	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. <i>Analytical Biochemistry</i> , 2002, 300, 94-99.	1.1	25
54	Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1998, 101, 25-44.	1.1	23

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55	Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1986, 82, 708-712.	2.3	22
56	Molecular, Kinetic, and Immunological Properties of the 6-Phosphofructokinase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 871-879.	2.3	22
57	Evidence for Activation of the Oxidative Pentose Phosphate Pathway during Photosynthetic Assimilation of NO <sub>3</sub> <sup>-</sup> but Not NH <sub>4</sub> <sup>+</sup> by a Green Alga. <i>Plant Physiology</i> , 1992, 100, 2096-2099.	2.3	22
58	Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1124-1130.	2.3	19
59	GROWTH RATE DEPENDENT OPTIMUM RATIOS IN SELENASTRUM MINUTUM (CHLOROPHYTA): IMPLICATIONS FOR COMPETITION, COEXISTENCE AND STABILITY IN PHYTOPLANKTON COMMUNITIES <sup>2</sup> . <i>Journal of Phycology</i> , 1986, 22, 94-102.	1.0	18
60	In Vitro Phosphorylation of Phosphoenolpyruvate Carboxylase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant and Cell Physiology</i> , 2002, 43, 785-792.	1.5	17
61	Determination of the site of CO <sub>2</sub> sensing in poplar: is the area-based N content and anatomy of new leaves determined by their immediate CO <sub>2</sub> environment or by the CO <sub>2</sub> environment of mature leaves?. <i>Journal of Experimental Botany</i> , 2011, 62, 2787-2796.	2.4	17
62	Cytochrome and Alternative Pathway Respiration during Transient Ammonium Assimilation by N-Limited <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 1990, 94, 1131-1136.	2.3	16
63	PREDICTING THE KINETICS OF DISSOLVED INORGANIC CARBON LIMITED GROWTH FROM THE SHORT-TERM KINETICS OF PHOTOSYNTHESIS IN <i>SYNECHOCOCCUS LEOPOLIENSIS</i> (CYANOPHYTA) <sup>1</sup> . <i>Journal of Phycology</i> , 1985, 21, 409-418.	1.0	15
64	Dark Ammonium Assimilation Reduces the Plastoquinone Pool of Photosystem II in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 96, 513-517.	2.3	14
65	PURIFICATION AND CHARACTERIZATION OF PYRUVATE KINASE FROM THE GREEN ALGA <i>CHLAMYDOMONAS REINHARDTII</i> . <i>Journal of Phycology</i> , 1992, 28, 472-481.	1.0	13
66	The relationship between nodule adenylates and the regulation of nitrogenase activity by O <sub>2</sub> in soybean. <i>Physiologia Plantarum</i> , 1994, 91, 687-695.	2.6	13
67	Purification and Molecular and Immunological Characterization of a Unique Phosphoribulokinase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1992, 98, 82-88.	2.3	10
68	Fructose 1,6-Bisphosphatase in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 1460-1465.	2.3	7
69	Influence of the carbon concentrating mechanism on carbon stable isotope discrimination by the marine diatom <i>Thalassiosira pseudonana</i> . <i>Canadian Journal of Botany</i> , 1998, 76, 1098-1103.	1.2	7
70	Inexpensive, Computer-Automated HPLC for Ion Exchange Separation and Quantification of Amino Acids in Physiological Fluids. <i>Journal of Liquid Chromatography and Related Technologies</i> , 1986, 9, 2199-2221.	0.9	5
71	PURIFICATION AND CHARACTERIZATION OF TWO FORMS OF PHOSPHOGLYCERATE KINASE FROM THE GREEN ALGA <i>SELENASTRUM MINUTUM</i> <sup>1</sup> . <i>Journal of Phycology</i> , 1993, 29, 777-786.	1.0	5
72	Phytoplankton growth and CO <sub>2</sub> . <i>Nature</i> , 1993, 363, 678-678.	13.7	2

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73	Metabolic interactions during photosynthetic and respiratory nitrogen assimilation in a green alga. , 0, , 49-78.		0
74	Interaction of Carbon and Nitrogen Metabolism in Photosynthetic Cells: Clues from Unicellular Algae. , 1995, , 4245-4250.		0
75	The Role of Short and Long Term Regulation of Glucose 6-Phosphate Dehydrogenase in The Assimilation of Nitrogen. , 1995, , 4307-4310.		0
76	Interactions between Phosphate Uptake, Respiration and Photosynthesis. , 1995, , 4255-4258.		0
77	Electron Flow from Nadph to Ferredoxin in Support of NO <sub>2</sub> <sup>-</sup> Reduction. , 1998, , 3625-3628.		0
78	Characterization of High and Low Molecular Mass Isoforms of Phosphoenolpyruvate Carboxylase from the Green Alga Selenastrum Minutum. , 1998, , 3403-3406.		0