

# David H Turpin

## List of Publications by Year in descending order

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78  
papers

3,934  
citations

94433

37  
h-index

123424

61  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2489  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                         | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | EFFECTS OF INORGANIC N AVAILABILITY ON ALGAL PHOTOSYNTHESIS AND CARBON METABOLISM. <i>Journal of Phycology</i> , 1991, 27, 14-20.                                                                                               | 2.3 | 367       |
| 2  | Limiting nutrient patchiness and its role in phytoplankton ecology. <i>Journal of Experimental Marine Biology and Ecology</i> , 1979, 39, 151-166.                                                                              | 1.5 | 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.                                                                        | 4.8 | 152       |
| 4  | Malate- and Pyruvate-Dependent Fatty Acid Synthesis in Leucoplasts from Developing Castor Endosperm. <i>Plant Physiology</i> , 1992, 98, 1233-1238.                                                                             | 4.8 | 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. | 2.3 | 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.                                                                      | 3.1 | 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.           | 4.8 | 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.                                               | 4.8 | 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.                                                          | 4.8 | 96        |
| 10 | Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1986, 81, 273-279.                                                                                  | 4.8 | 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.                                                   | 4.8 | 94        |
| 12 | Ammonium Assimilation Requires Mitochondrial Respiration in the Light. <i>Plant Physiology</i> , 1988, 86, 688-692.                                                                                                             | 4.8 | 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.                                          | 4.8 | 78        |
| 14 | Cell Size Manipulation in Natural Marine, Planktonic, Diatom Communities. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1980, 37, 1193-1195.                                                                      | 1.4 | 76        |
| 15 | Regulation of Phosphoenolpyruvate Carboxylase from the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 1303-1311.                                                                                   | 4.8 | 75        |
| 16 | Significance of Phosphoenolpyruvate Carboxylase during Ammonium Assimilation. <i>Plant Physiology</i> , 1989, 89, 1150-1157.                                                                                                    | 4.8 | 74        |
| 17 | Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 228-238.                                                                                 | 3.0 | 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.                                                  | 4.8 | 74        |

| #  | ARTICLE                                                                                                                                                                                                                                                       | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | CARBOXYSOME CONTENT OF SYNECHOCOCCUS LEOPOLIENSIS (CYANOPHYTA) IN RESPONSE TO INORGANIC CARBON. <i>Journal of Phycology</i> , 1984, 20, 249-253.                                                                                                              | 2.3 | 73        |
| 20 | Normal Growth of Transgenic Tobacco Plants in the Absence of Cytosolic Pyruvate Kinase. <i>Plant Physiology</i> , 1992, 100, 820-825.                                                                                                                         | 4.8 | 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.                                                                                                | 2.8 | 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.                       | 4.8 | 59        |
| 23 | Pyruvate kinase isozymes from the green alga, <i>Selenastrum minutum</i> . <i>Archives of Biochemistry and Biophysics</i> , 1989, 269, 219-227.                                                                                                               | 3.0 | 58        |
| 24 | Photosynthetic Adaptation by <i>Synechococcus leopoliensis</i> in Response to Exogenous Dissolved Inorganic Carbon. <i>Plant Physiology</i> , 1986, 80, 1038-1040.                                                                                            | 4.8 | 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.                                                        | 3.7 | 53        |
| 26 | Metabolite Regulation of Partially Purified Soybean Nodule Phosphoenolpyruvate Carboxylase. <i>Plant Physiology</i> , 1990, 94, 1429-1435.                                                                                                                    | 4.8 | 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. | 3.4 | 46        |
| 28 | RuBP Limitation of Photosynthetic Carbon Fixation during NH <sub>3</sub> Assimilation. <i>Plant Physiology</i> , 1988, 87, 395-401.                                                                                                                           | 4.8 | 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.                                                                                    | 4.8 | 43        |
| 30 | Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1116-1123.                                                                                                                                  | 4.8 | 43        |
| 31 | AMMONIUM INDUCED PHOTOSYNTHETIC SUPPRESSION IN AMMONIUM LIMITED <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYTA). <i>Journal of Phycology</i> , 1983, 19, 70-76.                                                                                                   | 2.3 | 42        |
| 32 | Modeling the C Economy of <i>Anabaena flos-aquae</i> . <i>Plant Physiology</i> , 1985, 78, 746-752.                                                                                                                                                           | 4.8 | 42        |
| 33 | Cytochrome and Alternative Pathway Respiration in Green Algae. <i>Plant Physiology</i> , 1990, 93, 356-360.                                                                                                                                                   | 4.8 | 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.                                                         | 3.5 | 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.                                                                                               | 3.0 | 38        |
| 36 | On limiting nutrient patchiness and phytoplankton growth: a conceptual approach. <i>Journal of Plankton Research</i> , 1981, 3, 421-431.                                                                                                                      | 1.8 | 37        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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. | 3.0 | 37        |
| 38 | Whole-Plant Gas Exchange and Reductive Biosynthesis in White Lupin. <i>Plant Physiology</i> , 2001, 126, 1555-1565.                                                                                                                                                                                                                                   | 4.8 | 37        |
| 39 | Anaerobic Carbon Metabolism by the Tricarboxylic Acid Cycle. <i>Plant Physiology</i> , 1989, 91, 1551-1557.                                                                                                                                                                                                                                           | 4.8 | 35        |
| 40 | The inorganic carbon requirements for nitrogen assimilation. <i>Canadian Journal of Botany</i> , 1991, 69, 1139-1145.                                                                                                                                                                                                                                 | 1.1 | 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.                                                                                                                                                           | 4.8 | 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.                                                                                                                                       | 2.3 | 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.                                                   | 4.8 | 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.                                                                                                                                                                 | 4.8 | 30        |
| 45 | Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1991, 95, 655-658.                                                                                                                                                                                                                            | 4.8 | 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.                                                                                                                                      | 4.8 | 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.                                                                                                                                                                                         | 1.5 | 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.                                                                                                                                                                                               | 4.8 | 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.                                                                                                                  | 4.8 | 27        |
| 50 | Pyruvate-kinase isoenzymes from zygotic and microspore-derived embryos of <i>Brassica napus</i> . <i>Planta</i> , 1992, 187, 198-202.                                                                                                                                                                                                                 | 3.2 | 27        |
| 51 | In Vitro Reconstitution of Electron Transport from Glucose-6-Phosphate and NADPH to Nitrite1. <i>Plant Physiology</i> , 1998, 117, 303-309.                                                                                                                                                                                                           | 4.8 | 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.                                                                                                 | 2.4 | 25        |
| 54 | Title is missing!. <i>Water, Air, and Soil Pollution</i> , 1998, 101, 25-44.                                                                                                                                                                                                                                                                          | 2.4 | 23        |

| #  | ARTICLE                                                                                                                                                                                                                                                                                               | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Nitrate and Ammonium Induced Photosynthetic Suppression in N-Limited <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1986, 82, 708-712.                                                                                                                                                        | 4.8  | 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.                                                                                                                           | 4.8  | 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.                                                           | 4.8  | 22        |
| 58 | Anaerobic Metabolism in the N-Limited Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 94, 1124-1130.                                                                                                                                                                          | 4.8  | 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.                                                                        | 2.3  | 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.                                                                                                                                    | 3.1  | 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. | 4.8  | 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.                                                                                                                  | 4.8  | 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.                                                                 | 2.3  | 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.                                                                                                                               | 4.8  | 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.                                                                                                                                          | 2.3  | 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.                                                                                                                                 | 5.2  | 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.                                                                                                             | 4.8  | 10        |
| 68 | Fructose 1,6-Bisphosphatase in the Green Alga <i>Selenastrum minutum</i> . <i>Plant Physiology</i> , 1990, 93, 1460-1465.                                                                                                                                                                             | 4.8  | 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.                                                                                               | 1.1  | 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.                                                                                    | 1.0  | 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.                                                                                                              | 2.3  | 5         |
| 72 | Phytoplankton growth and CO <sub>2</sub> . <i>Nature</i> , 1993, 363, 678-678.                                                                                                                                                                                                                        | 27.8 | 2         |

| #  | ARTICLE                                                                                                                                                   | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|
| 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         |