

# Nathan Nelson

## List of Publications by Citations

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117  
papers

8,982  
citations

50  
h-index

94  
g-index

181  
ext. papers

9,706  
ext. citations

8.3  
avg, IF

6.41  
L-index

#	Paper	IF	Citations
117	Structure and function of photosystems I and II. <i>Annual Review of Plant Biology</i> , <b>2006</b> , 57, 521-65	29.7	714
116	Crystal structure of plant photosystem I. <i>Nature</i> , <b>2003</b> , 426, 630-5	47.5	701
115	The complex architecture of oxygenic photosynthesis. <i>Nature Reviews Molecular Cell Biology</i> , <b>2004</b> , 5, 971-82	46.7	423
114	The structure of a plant photosystem I supercomplex at 3.4 Å resolution. <i>Nature</i> , <b>2007</b> , 447, 58-63	47.5	401
113	Vacuolar and plasma membrane proton-adenosinetriphosphatases. <i>Physiological Reviews</i> , <b>1999</b> , 79, 361-86	35.1	351
112	The NRAMP family of metal-ion transporters. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2006</b> , 1763, 609-20	4.7	312
111	The family of Na <sup>+</sup> /Cl <sup>-</sup> neurotransmitter transporters. <i>Journal of Neurochemistry</i> , <b>1998</b> , 71, 1785-803	5.8	280
110	Subunit Structure of Chloroplast Photosystem I Reaction Center. <i>Journal of Biological Chemistry</i> , <b>1977</b> , 252, 4564-4569	5	224
109	Structure determination and improved model of plant photosystem I. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 3478-86	5	219
108	Partial Resolution of the Enzymes Catalyzing Photophosphorylation. <i>Journal of Biological Chemistry</i> , <b>1972</b> , 247, 7657-7662	5	203
107	Structure and energy transfer in photosystems of oxygenic photosynthesis. <i>Annual Review of Biochemistry</i> , <b>2015</b> , 84, 659-83	27.9	195
106	Photosystem I gene cassettes are present in marine virus genomes. <i>Nature</i> , <b>2009</b> , 461, 258-262	47.5	160
105	Evolution of organellar proton-ATPases. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1992</b> , 1100, 109-24.5	15.6	156
104	Structure of the plant photosystem I supercomplex at 2.6 Å resolution. <i>Nature Plants</i> , <b>2017</b> , 3, 17014	11.2	150
103	Cloning and expression of a glycine transporter from mouse brain. <i>FEBS Letters</i> , <b>1992</b> , 305, 110-4	3.6	147
102	The progenitor of ATP synthases was closely related to the current vacuolar H <sup>+</sup> -ATPase. <i>FEBS Letters</i> , <b>1989</b> , 247, 147-53	3.6	144
101	Cloning of the human brain GABA transporter. <i>FEBS Letters</i> , <b>1990</b> , 269, 181-4	3.6	144

100	Evolution of photosystem I - from symmetry through pseudo-symmetry to asymmetry. <i>FEBS Letters</i> , <b>2004</b> , 564, 274-80	3.6	140
99	Negative control of heavy metal uptake by the <i>Saccharomyces cerevisiae</i> BSD2 gene. <i>Journal of Biological Chemistry</i> , <b>1997</b> , 272, 11763-9	5	137
98	The structure of plant photosystem I super-complex at 2.8 Å resolution. <i>ELife</i> , <b>2015</b> , 4, e07433	8.6	136
97	Structure, molecular genetics, and evolution of vacuolar H <sup>+</sup> -ATPases. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1989</b> , 21, 553-71	3.6	128
96	Yeast SMF1 mediates H <sup>(+)</sup> -coupled iron uptake with concomitant uncoupled cation currents. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 35089-94	5	125
95	Crystal structure of yeast V-ATPase subunit C reveals its stator function. <i>EMBO Reports</i> , <b>2004</b> , 5, 1148-52	3	118
94	Localization of glycine neurotransmitter transporter (GLYT2) reveals correlation with the distribution of glycine receptor. <i>Journal of Neurochemistry</i> , <b>1995</b> , 64, 1026-33	5.8	115
93	Genes and transcripts for the P700 chlorophylla apoprotein and subunit 2 of the photosystem I reaction center complex from spinach thylakoid membranes. <i>Plant Molecular Biology</i> , <b>1983</b> , 2, 95-107	4.5	101
92	Isolation of cDNA clones for fourteen nuclear-encoded thylakoid membrane proteins. <i>Molecular Genetics and Genomics</i> , <b>1986</b> , 204, 258-265		86
91	Developmental expression of the glycine transporters GLYT1 and GLYT2 in mouse brain. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 336-44	5.8	82
90	The <i>Saccharomyces cerevisiae</i> VMA10 is an intron-containing gene encoding a novel 13-kDa subunit of vacuolar H <sup>(+)</sup> -ATPase. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 13726-32	5	82
89	Lysosomal H <sup>+</sup> -translocating ATPase has a similar subunit structure to chromaffin granule H <sup>+</sup> -ATPase complex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1989</b> , 980, 241-7	3.6	78
88	Photosystems and global effects of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2011</b> , 1807, 856-63	4.5	77
87	Plant photosystem I design in the light of evolution. <i>Structure</i> , <b>2009</b> , 17, 637-50	5	77
86	Picosecond fluorescence of intact and dissolved PSI-LHCI crystals. <i>Biophysical Journal</i> , <b>2008</b> , 95, 5851-61	0.5	75
85	The significance of molecular slips in transport systems. <i>Nature Reviews Molecular Cell Biology</i> , <b>2002</b> , 3, 876-81	46.7	74
84	Comparison of the light-harvesting networks of plant and cyanobacterial photosystem I. <i>Biophysical Journal</i> , <b>2005</b> , 89, 1630-42	0.5	72
83	The structure of photosystem I and evolution of photosynthesis. <i>BioEssays</i> , <b>2005</b> , 27, 914-22	3.9	72

82	Zinc inhibition of gamma-aminobutyric acid transporter 4 (GAT4) reveals a link between excitatory and inhibitory neurotransmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 6154-9	11.1	72
81	Structure and function of wild-type and subunit-depleted photosystem I in <i>Synechocystis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2018</b> , 1859, 645-654	4.5	70
80	A novel family of yeast chaperons involved in the distribution of V-ATPase and other membrane proteins. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 26885-93	5	70
79	Reconstitution of photosynthetic energy conservation. II. Photophosphorylation in liposomes containing photosystem-I reaction center and chloroplast coupling-factor complex. <i>FEBS Journal</i> , <b>1980</b> , 111, 535-43		70
78	Genes and transcripts for the ATP synthase CF0 subunits I and II from spinach thylakoid membranes. <i>Molecular Genetics and Genomics</i> , <b>1985</b> , 199, 290-299		68
77	Characterization of yeast V-ATPase mutants lacking Vph1p or Stv1p and the effect on endocytosis. <i>Journal of Experimental Biology</i> , <b>2002</b> , 205, 1209-19	2.9	65
76	A journey from mammals to yeast with vacuolar H <sup>+</sup> -ATPase (V-ATPase). <i>Journal of Bioenergetics and Biomembranes</i> , <b>2003</b> , 35, 281-9	3.6	64
75	Stable photobleaching of P840 in <i>Chlorobium</i> reaction center preparations: presence of the 42-kDa bacteriochlorophyll a protein and a 17-kDa polypeptide. <i>Biochemistry</i> , <b>1995</b> , 34, 9617-24	3.1	60
74	Crystal structures of virus-like photosystem I complexes from the mesophilic cyanobacterium <i>Synechocystis</i> PCC 6803. <i>ELife</i> , <b>2013</b> , 3, e01496	8.6	60
73	A rat brain cDNA encoding the neurotransmitter transporter with an unusual structure. <i>FEBS Letters</i> , <b>1993</b> , 315, 114-8	3.6	58
72	Plant photosystem I--the most efficient nano-photochemical machine. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 1709-13	1.2	54
71	Vacuolar H <sup>(+)</sup> -ATPase-an enzyme for all seasons. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2009</b> , 457, 581-7	4.5	51
70	The <i>atp1</i> and <i>atp2</i> operons of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Molecular Biology</i> , <b>1991</b> , 17, 641-52	4.5	51
69	Functional organization of a plant Photosystem I: evolution of a highly efficient photochemical machine. <i>Plant Physiology and Biochemistry</i> , <b>2008</b> , 46, 228-37	5.3	50
68	A transcription unit for the Rieske FeS-protein and cytochrome b in <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , <b>1994</b> , 39, 163-74	3.6	50
67	<i>Plasmodium falciparum</i> chloroquine resistance transporter is a H <sup>+</sup> -coupled polyspecific nutrient and drug exporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3356-61	11.1	49
66	Structural biology. Nature's rotary electromotors. <i>Science</i> , <b>2005</b> , 308, 642-4	32.2	49
65	Photosystem I reaction center: past and future. <i>Photosynthesis Research</i> , <b>2002</b> , 73, 193-206	3.6	49

64	Developmental expression of GABA transporters GAT1 and GAT4 suggests involvement in brain maturation. <i>Journal of Neurochemistry</i> , <b>1996</b> , 67, 857-67	5.8	48
63	Rapid transbilayer movement of fluorescent phospholipid analogues in the plasma membrane of endocytosis-deficient yeast cells does not require the Drs2 protein. <i>FEBS Journal</i> , <b>1999</b> , 263, 254-63		48
62	The nuclear-encoded polypeptide Cfo-II from spinach is a real, ninth subunit of chloroplast ATP synthase. <i>FEBS Letters</i> , <b>1993</b> , 326, 192-8	3.6	47
61	Structure and function of photosystem I in <i>Cyanidioschyzon merolae</i> . <i>Photosynthesis Research</i> , <b>2019</b> , 139, 499-508	3.6	46
60	Light-harvesting features revealed by the structure of plant photosystem I. <i>Photosynthesis Research</i> , <b>2004</b> , 81, 239-50	3.6	42
59	Structure of plant photosystem I revealed by theoretical modeling. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 33627-36	5	42
58	The role of delta subunit in the coupling activity of chloroplast coupling factor 1. <i>FEBS Letters</i> , <b>1976</b> , 70, 249-53	3.6	42
57	The Photosystem I-like P840-reaction center of Green S-bacteria is a homodimer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>1992</b> , 1101, 154-156	4.5	41
56	The little we know on the structure and machinery of V-ATPase. <i>Journal of Experimental Biology</i> , <b>2009</b> , 212, 1604-10	2.9	40
55	The emerging structure of vacuolar ATPases. <i>Physiology</i> , <b>2006</b> , 21, 317-25	9.4	40
54	Photosystem I reaction centers from <i>Chlamydomonas</i> and higher plant chloroplasts. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1981</b> , 13, 295-306	3.6	35
53	The first external loop of the metal ion transporter DCT1 is involved in metal ion binding and specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 10694-9	11.1	34
52	Inhibition of vacuolar H <sup>+</sup> -ATPases by fusidic acid and suramin. <i>FEBS Letters</i> , <b>1988</b> , 234, 383-6	3.6	32
51	P840-Reaction Centers from <i>Chlorobium tepidum</i> Quinone Analysis and Functional Reconstitution into Lipid Vesicles. <i>Photochemistry and Photobiology</i> , <b>1996</b> , 64, 14-19	3.5	31
50	The vacuolar proton-ATPase of eukaryotic cells. <i>BioEssays</i> , <b>1987</b> , 7, 251-4	3.9	30
49	Structure of the plant photosystem I. <i>Biochemical Society Transactions</i> , <b>2018</b> , 46, 285-294	5	27
48	Large photovoltages generated by plant photosystem I crystals. <i>Advanced Materials</i> , <b>2012</b> , 24, 2988-91, 2987	23.6	26
47	The mutation F227I increases the coupling of metal ion transport in DCT1. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 53056-61	5	26

46	Altered distribution of the yeast plasma membrane H <sup>+</sup> -ATPase as a feature of vacuolar H <sup>+</sup> -ATPase null mutants. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 40088-95	5	25
45	Structure and flexibility of the C-ring in the electromotor of rotary F(0)F(1)-ATPase of pea chloroplasts. <i>PLoS ONE</i> , <b>2012</b> , 7, e43045	3.6	25
44	Microalgal hydrogen production: prospects of an essential technology for a clean and sustainable energy economy. <i>Photosynthesis Research</i> , <b>2017</b> , 133, 49-62	3.6	24
43	Identification of the subunit carrying FeS-centers A and B in the P840-reaction center preparation of <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , <b>1993</b> , 38, 111-4	3.6	24
42	Properties of a novel ATPase enzyme in chromaffin granules. <i>Journal of Bioenergetics and Biomembranes</i> , <b>1982</b> , 14, 499-512	3.6	24
41	Structure of a minimal photosystem I from the green alga <i>Dunaliella salina</i> . <i>Nature Plants</i> , <b>2020</b> , 6, 321-327.2		23
40	Evolution of photosystem I and the control of global enthalpy in an oxidizing world. <i>Photosynthesis Research</i> , <b>2013</b> , 116, 145-51	3.6	23
39	Purification and composition of photosystem I reaction center of <i>Prochloron</i> sp., an oxygen-evolving prokaryote containing chlorophyll b. <i>FEBS Letters</i> , <b>1985</b> , 191, 29-33	3.6	23
38	Features of V-ATPases that distinguish them from F-ATPases. <i>FEBS Letters</i> , <b>2001</b> , 504, 223-8	3.6	22
37	Photosystem I complex. <i>Photosynthesis Research</i> , <b>1988</b> , 19, 73-84	3.6	22
36	Temperature-sensitive PSII: a novel approach for sustained photosynthetic hydrogen production. <i>Photosynthesis Research</i> , <b>2016</b> , 130, 113-121	3.6	22
35	Crystallization and initial X-ray diffraction studies of higher plant photosystem I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2003</b> , 59, 1824-7		21
34	Crystal Structure of Photosystem I Monomer From PCC 6803. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1865	6	21
33	Photosystem I reaction centers from maize bundle-sheath and mesophyll chloroplasts lack subunit III. <i>FEBS Journal</i> , <b>1986</b> , 159, 157-61		20
32	Solving the structure of plant photosystem I-biochemistry is vital. <i>Photochemical and Photobiological Sciences</i> , <b>2005</b> , 4, 1011-5	4.1	18
31	Effect of sodium lithium and proton concentrations on the electrophysiological properties of the four mouse GABA transporters expressed in <i>Xenopus</i> oocytes. <i>Neurochemistry International</i> , <b>2003</b> , 43, 431-43	4.3	18
30	The evolution of photosystem I in light of phage-encoded reaction centres. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2012</b> , 367, 3400-5	5.7	16
29	Developmental expression of the neurotransmitter transporter GAT3. <i>Journal of Neuroscience Research</i> , <b>1999</b> , 55, 394-9	4.2	16

28	The structure of a triple complex of plant photosystem I with ferredoxin and plastocyanin. <i>Nature Plants</i> , <b>2020</b> , 6, 1300-1305	11.2	15
27	Biochemical support for the V-ATPase rotary mechanism: antibody against HA-tagged Vma7p or Vma16p but not Vma10p inhibits activity. <i>Journal of Experimental Biology</i> , <b>2003</b> , 206, 3227-37	2.9	14
26	Structural and functional features of yeast V-ATPase subunit C. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 297-303	4.5	13
25	Temperature-sensitive PSII and promiscuous PSI as a possible solution for sustainable photosynthetic hydrogen production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2012</b> , 1817, 1122-6	4.5	12
24	Salt inactivation as a mechanistic probe of membrane-bound chloroplast coupling factor 1. <i>FEBS Journal</i> , <b>1976</b> , 69, 203-8		12
23	Structure and energy transfer pathways of the Dunaliella Salina photosystem I supercomplex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2020</b> , 1861, 148253	4.5	11
22	Cloning and expression of cDNAs encoding plant V-ATPase subunits in the corresponding yeast null mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2000</b> , 1459, 489-98	4.5	11
21	Differential effect of pH on sodium binding by the various GABA transporters expressed in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , <b>2002</b> , 527, 125-32	3.6	10
20	Developmental expression of the neurotransmitter transporter NTT4. <i>Journal of Neuroscience Research</i> , <b>1999</b> , 55, 24-35	4.2	8
19	Functional assembly of the chloroplast H <sup>+</sup> -ATPase and photosynthetic reaction centres. <i>Biochemical Society Transactions</i> , <b>1986</b> , 14, 5-7	5	6
18	Structure of plant photosystem I-plastocyanin complex reveals strong hydrophobic interactions. <i>Biochemical Journal</i> , <b>2021</b> , 478, 2371-2384	3.7	6
17	Expression, crystallization and phasing of vacuolar H <sup>(+)</sup> -ATPase subunit C (Vma5p) of <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2004</b> , 60, 1906-9		5
16	The Plasticity of Photosystem I. <i>Plant and Cell Physiology</i> , <b>2021</b> , 62, 1073-1081	4.8	5
15	Specific immunoprecipitation of ATPase from <i>Escherichia coli</i> . <i>FEBS Letters</i> , <b>1978</b> , 91, 85-9	3.6	4
14	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in <i>Chlorella ohadii</i> . <i>Nature Plants</i> , <b>2021</b> , 7, 1314-1322	11.2	4
13	Evidence for deep acceptor centers in plant photosystem I crystals. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 1374-9	3.3	3
12	Optoelectronic Devices: Large Photovoltages Generated by Plant Photosystem I Crystals (Adv. Mater. 22/2012). <i>Advanced Materials</i> , <b>2012</b> , 24, 2987-2987	23.6	2
11	A Glimpse into the Atomic Structure of Plant Photosystem I65-81		2

10	Excitation energy transfer kinetics of trimeric, monomeric and subunit-depleted Photosystem I from <i>Synechocystis</i> PCC 6803. <i>Biochemical Journal</i> , <b>2021</b> , 478, 1333-1346	3.7	2
9	Two-Dimensional Electronic Spectroscopy of a Minimal Photosystem I Complex Reveals the Rate of Primary Charge Separation. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14601-14612	16	2
8	Dimeric and high-resolution structures of <i>Chlamydomonas</i> Photosystem I from a temperature-sensitive Photosystem II mutant. <i>Communications Biology</i> , <b>2021</b> , 4, 1380	6.5	2
7	Joseph Neumann (1930–2017): a scientist and a philosopher. <i>Photosynthesis Research</i> , <b>2017</b> , 134, 111-115	3.6	1
6	A Quest for the Atomic Resolution of Plant Photosystem I	2017, 149-157	1
5	Temperature Sensitive Photosynthesis: Point Mutated CEF-G, PRK, or PsbO Act as Temperature-Controlled Switches for Essential Photosynthetic Processes. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 562985	6	1
4	Structure, Function, and Regulation of Plant Photosystem I	2006, 71-77	1
3	Higher Plant and Cyanobacterial Photosystem I: Connected Cytochrome Pathways. <i>Advances in Photosynthesis and Respiration</i> , <b>2016</b> , 131-142	1.5	
2	The Structure of Plant Photosystem I – The First Membrane Supercomplex Solved by X-ray Crystallography. <i>FASEB Journal</i> , <b>2006</b> , 20, A489	0.9	
1	Feasibility of Sustainable Photosynthetic Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , <b>2021</b> , 567-587	1.5	