

Nathan Nelson

List of Publications by Year in descending order

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116
papers

10,595
citations

31902

53
h-index

31759

101
g-index

181
all docs

181
docs citations

181
times ranked

7642
citing authors

#	ARTICLE	IF	CITATIONS
1	STRUCTURE AND FUNCTION OF PHOTOSYSTEMS I AND II. Annual Review of Plant Biology, 2006, 57, 521-565.	8.6	830
2	Crystal structure of plant photosystem I. Nature, 2003, 426, 630-635.	13.7	785
3	The complex architecture of oxygenic photosynthesis. Nature Reviews Molecular Cell Biology, 2004, 5, 971-982.	16.1	504
4	The structure of a plant photosystem I supercomplex at 3.4 Å resolution. Nature, 2007, 447, 58-63.	13.7	443
5	The NRAMP family of metal-ion transporters. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 609-620.	1.9	427
6	Vacuolar and Plasma Membrane Proton-Adenosinetriphosphatases. Physiological Reviews, 1999, 79, 361-385.	13.1	392
7	The Family of Na ⁺ /Cl ⁻ Neurotransmitter Transporters. Journal of Neurochemistry, 1998, 71, 1785-1803.	2.1	319
8	Structure and Energy Transfer in Photosystems of Oxygenic Photosynthesis. Annual Review of Biochemistry, 2015, 84, 659-683.	5.0	277
9	Subunit Structure of Chloroplast Photosystem I Reaction Center. Journal of Biological Chemistry, 1977, 252, 4564-4569.	1.6	275
10	Partial Resolution of the Enzymes Catalyzing Photophosphorylation. Journal of Biological Chemistry, 1972, 247, 7657-7662.	1.6	243
11	Structure Determination and Improved Model of Plant Photosystem I. Journal of Biological Chemistry, 2010, 285, 3478-3486.	1.6	238
12	Structure of the plant photosystem I supercomplex at 2.6 Å resolution. Nature Plants, 2017, 3, 17014.	4.7	205
13	Photosystem I gene cassettes are present in marine virus genomes. Nature, 2009, 461, 258-262.	13.7	195
14	Evolution of organellar proton-ATPases. Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1100, 109-124.	0.5	180
15	Cloning and expression of a glycine transporter from mouse brain. FEBS Letters, 1992, 305, 110-114.	1.3	168
16	The structure of plant photosystem I super-complex at 2.8 Å resolution. ELife, 2015, 4, e07433.	2.8	168
17	The progenitor of ATP synthases was closely related to the current vacuolar H ⁺ -ATPase. FEBS Letters, 1989, 247, 147-153.	1.3	162
18	Cloning of the human brain GABA transporter. FEBS Letters, 1990, 269, 181-184.	1.3	162

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19	Negative Control of Heavy Metal Uptake by the <i>Saccharomyces cerevisiae</i> BSD2 Gene. <i>Journal of Biological Chemistry</i> , 1997, 272, 11763-11769.	1.6	160
20	Evolution of photosystem I - from symmetry through pseudosymmetry to asymmetry. <i>FEBS Letters</i> , 2004, 564, 274-280.	1.3	154
21	Structure, molecular genetics, and evolution of vacuolar H ⁺ -ATPases. <i>Journal of Bioenergetics and Biomembranes</i> , 1989, 21, 553-571.	1.0	146
22	Yeast SMF1 Mediates H ⁺ -coupled Iron Uptake with Concomitant Uncoupled Cation Currents. <i>Journal of Biological Chemistry</i> , 1999, 274, 35089-35094.	1.6	137
23	Localization of Glycine Neurotransmitter Transporter (GLYT2) Reveals Correlation with the Distribution of Glycine Receptor. <i>Journal of Neurochemistry</i> , 1995, 64, 1026-1033.	2.1	133
24	Crystal structure of yeast V _a ATPase subunit C reveals its stator function. <i>EMBO Reports</i> , 2004, 5, 1148-1152.	2.0	131
25	Structure and function of wild-type and subunit-depleted photosystem I in <i>Synechocystis</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 645-654.	0.5	113
26	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> , 1983, 2, 95-107.	2.0	106
27	Developmental Expression of the Glycine Transporters GLYT1 and GLYT2 in Mouse Brain. <i>Journal of Neurochemistry</i> , 1996, 67, 336-344.	2.1	97
28	Isolation of cDNA clones for fourteen nuclear-encoded thylakoid membrane proteins. <i>Molecular Genetics and Genomics</i> , 1986, 204, 258-265.	2.4	90
29	The <i>Saccharomyces cerevisiae</i> VMA10 Is an Intron-containing Gene Encoding a Novel 13-kDa Subunit of Vacuolar H ⁺ -ATPase. <i>Journal of Biological Chemistry</i> , 1995, 270, 13726-13732.	1.6	90
30	Genes and transcripts for the ATP synthase CF ₀ subunits I and II from spinach thylakoid membranes. <i>Molecular Genetics and Genomics</i> , 1985, 199, 290-299.	2.4	89
31	Plant Photosystem I Design in the Light of Evolution. <i>Structure</i> , 2009, 17, 637-650.	1.6	89
32	Photosystems and global effects of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 856-863.	0.5	87
33	Lysosomal H ⁺ -translocating ATPase has a similar subunit structure to chromaffin granule H ⁺ -ATPase complex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 980, 241-247.	1.4	86
34	Picosecond Fluorescence of Intact and Dissolved PSI-LHCI Crystals. <i>Biophysical Journal</i> , 2008, 95, 5851-5861.	0.2	85
35	A Novel Family of Yeast Chaperons Involved in the Distribution of V-ATPase and Other Membrane Proteins. <i>Journal of Biological Chemistry</i> , 1999, 274, 26885-26893.	1.6	83
36	The structure of photosystem I and evolution of photosynthesis. <i>BioEssays</i> , 2005, 27, 914-922.	1.2	82

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37	The significance of molecular slips in transport systems. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 876-881.	16.1	81
38	Zinc inhibition of \hat{A} -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> , 2005, 102, 6154-6159.	3.3	79
39	A journey from mammals to yeast with vacuolar H ⁺ -ATPase (V-ATPase). <i>Journal of Bioenergetics and Biomembranes</i> , 2003, 35, 281-289.	1.0	78
40	Comparison of the Light-Harvesting Networks of Plant and Cyanobacterial Photosystem I. <i>Biophysical Journal</i> , 2005, 89, 1630-1642.	0.2	78
41	Reconstitution of Photosynthetic Energy Conservation. II. Photophosphorylation in Liposomes Containing Photosystem-I Reaction Center and Chloroplast Coupling-Factor Complex. <i>FEBS Journal</i> , 1980, 111, 535-543.	0.2	72
42	A rat brain cDNA encoding the neurotransmitter transporter with an unusual structure. <i>FEBS Letters</i> , 1993, 315, 114-118.	1.3	70
43	Characterization of yeast V-ATPase mutants lacking Vph1p or Stv1p and the effect on endocytosis. <i>Journal of Experimental Biology</i> , 2002, 205, 1209-19.	0.8	70
44	Crystal structures of virus-like photosystem I complexes from the mesophilic cyanobacterium <i>Synechocystis</i> PCC 6803. <i>ELife</i> , 2013, 3, e01496.	2.8	69
45	<i>Plasmodium falciparum</i> chloroquine resistance transporter is a H ⁺ -coupled polyspecific nutrient and drug exporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3356-3361.	3.3	65
46	Structure and function of photosystem I in <i>Cyanidioschyzon merolae</i> . <i>Photosynthesis Research</i> , 2019, 139, 499-508.	1.6	65
47	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> , 1995, 34, 9617-9624.	1.2	64
48	Vacuolar H ⁺ -ATPase "an enzyme for all seasons. <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 581-587.	1.3	63
49	Plant Photosystem I "The Most Efficient Nano-Photochemical Machine. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1709-1713.	0.9	61
50	The <i>atp1</i> and <i>atp2</i> operons of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Molecular Biology</i> , 1991, 17, 641-652.	2.0	58
51	STRUCTURAL BIOLOGY: Nature's Rotary Electromotors. <i>Science</i> , 2005, 308, 642-644.	6.0	57
52	Functional organization of a plant Photosystem I: Evolution of a highly efficient photochemical machine. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 228-237.	2.8	55
53	Developmental Expression of GABA Transporters GAT1 and GAT4 Suggests Involvement in Brain Maturation. <i>Journal of Neurochemistry</i> , 1996, 67, 857-867.	2.1	54
54	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> , 1999, 263, 254-264.	0.2	53

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55	The nuclear-encoded polypeptide Cfo-II from spinach is a real, ninth subunit of chloroplast ATP synthase. <i>FEBS Letters</i> , 1993, 326, 192-198.	1.3	52
56	A transcription unit for the Rieske FeS-protein and cytochrome b in <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , 1994, 39, 163-174.	1.6	52
57	Photosystem I reaction center: past and future. <i>Photosynthesis Research</i> , 2002, 73, 193-206.	1.6	50
58	Light-Harvesting Features Revealed by the Structure of Plant Photosystem I. <i>Photosynthesis Research</i> , 2004, 81, 239-250.	1.6	49
59	The role of $\hat{\Gamma}$ subunit in the coupling activity of chloroplast coupling factor 1. <i>FEBS Letters</i> , 1976, 70, 249-253.	1.3	47
60	Structure of Plant Photosystem I Revealed by Theoretical Modeling. <i>Journal of Biological Chemistry</i> , 2005, 280, 33627-33636.	1.6	47
61	The Emerging Structure of Vacuolar ATPases. <i>Physiology</i> , 2006, 21, 317-325.	1.6	47
62	The Photosystem I-like P840-reaction center of Green S-bacteria is a homodimer. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992, 1101, 154-156.	0.5	46
63	The little we know on the structure and machinery of V-ATPase. <i>Journal of Experimental Biology</i> , 2009, 212, 1604-1610.	0.8	46
64	Structure of the plant photosystem I. <i>Biochemical Society Transactions</i> , 2018, 46, 285-294.	1.6	46
65	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> , 2003, 100, 10694-10699.	3.3	40
66	Structure of a minimal photosystem I from the green alga <i>Dunaliella salina</i> . <i>Nature Plants</i> , 2020, 6, 321-327.	4.7	40
67	Microalgal hydrogen production: prospects of an essential technology for a clean and sustainable energy economy. <i>Photosynthesis Research</i> , 2017, 133, 49-62.	1.6	37
68	Photosystem I reaction centers from <i>Chlamydomonas</i> and higher plant chloroplasts. <i>Journal of Bioenergetics and Biomembranes</i> , 1981, 13, 295-306.	1.0	36
69	Inhibition of vacuolar H ⁺ -ATPases by fusidic acid and suramin. <i>FEBS Letters</i> , 1988, 234, 383-386.	1.3	35
70	The vacuolar proton-ATPase of eukaryotic cells. <i>BioEssays</i> , 1987, 7, 251-254.	1.2	34
71	Altered Distribution of the Yeast Plasma Membrane H ⁺ -ATPase as a Feature of Vacuolar H ⁺ -ATPase Null Mutants. <i>Journal of Biological Chemistry</i> , 2000, 275, 40088-40095.	1.6	34
72	P840 Reaction Centers from <i>Chlorobium tepidum</i> Quinone Analysis and Functional Reconstitution into Lipid Vesicles. <i>Photochemistry and Photobiology</i> , 1996, 64, 14-19.	1.3	33

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73	The structure of a triple complex of plant photosystem I with ferredoxin and plastocyanin. <i>Nature Plants</i> , 2020, 6, 1300-1305.	4.7	33
74	Features of V-ATPases that distinguish them from F-ATPases. <i>FEBS Letters</i> , 2001, 504, 223-228.	1.3	30
75	The Mutation F227I Increases the Coupling of Metal Ion Transport in DCT1. <i>Journal of Biological Chemistry</i> , 2004, 279, 53056-53061.	1.6	30
76	Large Photovoltages Generated by Plant Photosystem I Crystals. <i>Advanced Materials</i> , 2012, 24, 2988-2991.	11.1	30
77	Crystal Structure of Photosystem I Monomer From <i>Synechocystis</i> PCC 6803. <i>Frontiers in Plant Science</i> , 2018, 9, 1865.	1.7	30
78	Evolution of photosystem I and the control of global enthalpy in an oxidizing world. <i>Photosynthesis Research</i> , 2013, 116, 145-151.	1.6	29
79	Temperature-sensitive PSII: a novel approach for sustained photosynthetic hydrogen production. <i>Photosynthesis Research</i> , 2016, 130, 113-121.	1.6	29
80	Structure and Flexibility of the C-Ring in the Electromotor of Rotary FoF1-ATPase of Pea Chloroplasts. <i>PLoS ONE</i> , 2012, 7, e43045.	1.1	28
81	Purification and composition of photosystem I reaction center of <i>Prochloron</i> sp., an oxygen-evolving prokaryote containing chlorophyll b. <i>FEBS Letters</i> , 1985, 191, 29-33.	1.3	27
82	Properties of a novel ATPase enzyme in chromaffin granules. <i>Journal of Bioenergetics and Biomembranes</i> , 1982, 14, 499-512.	1.0	25
83	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> , 1993, 38, 111-114.	1.6	25
84	Photosystem I complex. <i>Photosynthesis Research</i> , 1988, 19, 73-84.	1.6	24
85	Developmental expression of the neurotransmitter transporter GAT3. <i>Journal of Neuroscience Research</i> , 1999, 55, 394-399.	1.3	24
86	Crystallization and initial X-ray diffraction studies of higher plant photosystem I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1824-1827.	2.5	23
87	Photosystem I reaction centers from maize bundle-sheath and mesophyll chloroplasts lack subunit III. <i>FEBS Journal</i> , 1986, 159, 157-161.	0.2	21
88	Structure and energy transfer pathways of the <i>Dunaliella Salina</i> photosystem I supercomplex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148253.	0.5	21
89	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> , 2003, 43, 431-443.	1.9	19
90	Solving the structure of plant photosystem I "biochemistry is vital. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1011.	1.6	19

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91	The Plasticity of Photosystem I. <i>Plant and Cell Physiology</i> , 2021, 62, 1073-1081.	1.5	19
92	Cryo-EM photosystem I structure reveals adaptation mechanisms to extreme high light in <i>Chlorella ohadii</i> . <i>Nature Plants</i> , 2021, 7, 1314-1322.	4.7	18
93	Structural and functional features of yeast V-ATPase subunit C. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 297-303.	0.5	17
94	The evolution of photosystem I in light of phage-encoded reaction centres. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 3400-3405.	1.8	17
95	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> , 2003, 206, 3227-3237.	0.8	16
96	Structure of plant photosystem I-plastocyanin complex reveals strong hydrophobic interactions. <i>Biochemical Journal</i> , 2021, 478, 2371-2384.	1.7	15
97	Cloning and expression of cDNAs encoding plant V-ATPase subunits in the corresponding yeast null mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 489-498.	0.5	13
98	Temperature-sensitive PSII and promiscuous PSI as a possible solution for sustainable photosynthetic hydrogen production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1122-1126.	0.5	13
99	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> , 2021, 143, 14601-14612.	6.6	13
100	Salt Inactivation as a Mechanistic Probe of Membrane-Bound Chloroplast Coupling Factor 1. <i>FEBS Journal</i> , 1976, 69, 203-208.	0.2	12
101	Excitation energy transfer kinetics of trimeric, monomeric and subunit-depleted Photosystem I from <i>Synechocystis</i> PCC 6803. <i>Biochemical Journal</i> , 2021, 478, 1333-1346.	1.7	11
102	Differential effect of pH on sodium binding by the various GABA transporters expressed in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 2002, 527, 125-132.	1.3	10
103	Developmental expression of the neurotransmitter transporter NTT4. , 1999, 55, 24-35.		9
104	Functional assembly of the chloroplast H ⁺ -ATPase and photosynthetic reaction centres. <i>Biochemical Society Transactions</i> , 1986, 14, 5-7.	1.6	7
105	Expression, crystallization and phasing of vacuolar H ⁺ -ATPase subunit C (Vma5p) of <i>Saccharomyces cerevisiae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 1906-1909.	2.5	6
106	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> , 2020, 11, 562985.	1.7	6
107	Dimeric and high-resolution structures of <i>Chlamydomonas</i> Photosystem I from a temperature-sensitive Photosystem II mutant. <i>Communications Biology</i> , 2021, 4, 1380.	2.0	6
108	Specific immunoprecipitation of ATPase from <i>Escherichia Coli</i> . <i>FEBS Letters</i> , 1978, 91, 85-89.	1.3	4

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109	Evidence for Deep Acceptor Centers in Plant Photosystem I Crystals. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1374-1379.	1.2	4
110	Optoelectronic Devices: Large Photovoltages Generated by Plant Photosystem I Crystals (<i>Adv. Mater.</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	11.1	2
111	Joseph Neumann (1930â€“2017): a scientist and a philosopher. <i>Photosynthesis Research</i> , 2017, 134, 111-115.	1.6	1
112	A Quest for the Atomic Resolution of Plant Photosystem I. , 2017, , 149-157.		1
113	Structure, Function, and Regulation of Plant Photosystem I. , 2006, , 71-77.		1
114	Higher Plant and Cyanobacterial Photosystem I: Connected Cytochrome Pathways. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 131-142.	1.0	0
115	Feasibility of Sustainable Photosynthetic Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 567-587.	1.0	0
116	The Structure of Plant Photosystem I â€“ The First Membrane Supercomplex Solved by Xâ€“ray Crystallography. <i>FASEB Journal</i> , 2006, 20, A489.	0.2	0