

Nathan Nelson

List of Publications by Year in descending order

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104
papers

10,891
citations

28718

52
h-index

26435

102
g-index

189
all docs

189
docs citations

189
times ranked

6807
citing authors

#	ARTICLE	IF	CITATIONS
1	STRUCTURE AND FUNCTION OF PHOTOSYSTEMS I AND II. Annual Review of Plant Biology, 2006, 57, 521-565.	18.9	855
2	Crystal structure of plant photosystem I. Nature, 2003, 426, 630-635.	35.3	794
3	The complex architecture of oxygenic photosynthesis. Nature Reviews Molecular Cell Biology, 2004, 5, 971-982.	36.5	529
4	The structure of a plant photosystem I supercomplex at 3.4 Å resolution. Nature, 2007, 447, 58-63.	35.3	452
5	The NRAMP family of metal-ion transporters. Biochimica Et Biophysica Acta - Molecular Cell Research, 2006, 1763, 609-620.	4.0	436
6	Vacuolar and Plasma Membrane Proton-Adenosinetriphosphatases. Physiological Reviews, 1999, 79, 361-385.	28.3	396
7	The Family of Na ⁺ /Cl ⁻ Neurotransmitter Transporters. Journal of Neurochemistry, 1998, 71, 1785-1803.	4.0	326
8	Structure and Energy Transfer in Photosystems of Oxygenic Photosynthesis. Annual Review of Biochemistry, 2015, 84, 659-683.	10.9	290
9	Subunit Structure of Chloroplast Photosystem I Reaction Center. Journal of Biological Chemistry, 1977, 252, 4564-4569.	3.4	282
10	Partial Resolution of the Enzymes Catalyzing Photophosphorylation. Journal of Biological Chemistry, 1972, 247, 7657-7662.	3.4	250
11	Structure Determination and Improved Model of Plant Photosystem I. Journal of Biological Chemistry, 2010, 285, 3478-3486.	3.4	243
12	Structure of the plant photosystem I supercomplex at 2.6 Å resolution. Nature Plants, 2017, 3, 17014.	9.2	220
13	Photosystem I gene cassettes are present in marine virus genomes. Nature, 2009, 461, 258-262.	35.3	199
14	Evolution of organellar proton-ATPases. Biochimica Et Biophysica Acta - Bioenergetics, 1992, 1100, 109-124.	1.6	180
15	The structure of plant photosystem I super-complex at 2.8 Å resolution. ELife, 2015, 4, e07433.	5.8	179
16	Negative Control of Heavy Metal Uptake by the Saccharomyces cerevisiae BSD2 Gene. Journal of Biological Chemistry, 1997, 272, 11763-11769.	3.4	161
17	Structure, molecular genetics, and evolution of vacuolar H ⁺ -ATPases. Journal of Bioenergetics and Biomembranes, 1989, 21, 553-571.	2.2	146
18	Yeast SMF1 Mediates H ⁺ -coupled Iron Uptake with Concomitant Uncoupled Cation Currents. Journal of Biological Chemistry, 1999, 274, 35089-35094.	3.4	138

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19	Localization of Glycine Neurotransmitter Transporter (GLYT2) Reveals Correlation with the Distribution of Glycine Receptor. <i>Journal of Neurochemistry</i> , 1995, 64, 1026-1033.	4.0	136
20	Crystal structure of yeast V _a ATPase subunit C reveals its stator function. <i>EMBO Reports</i> , 2004, 5, 1148-1152.	4.5	132
21	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.	1.6	123
22	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.	3.9	106
23	Developmental Expression of the Glycine Transporters GLYT1 and GLYT2 in Mouse Brain. <i>Journal of Neurochemistry</i> , 1996, 67, 336-344.	4.0	101
24	Plant Photosystem I Design in the Light of Evolution. <i>Structure</i> , 2009, 17, 637-650.	3.3	92
25	Photosystems and global effects of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 856-863.	1.6	92
26	Genes and transcripts for the ATP synthase CFO subunits I and II from spinach thylakoid membranes. <i>Molecular Genetics and Genomics</i> , 1985, 199, 290-299.	2.4	91
27	Isolation of cDNA clones for fourteen nuclear-encoded thylakoid membrane proteins. <i>Molecular Genetics and Genomics</i> , 1986, 204, 258-265.	2.4	90
28	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.	3.4	90
29	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.	2.7	87
30	The structure of photosystem I and evolution of photosynthesis. <i>BioEssays</i> , 2005, 27, 914-922.	2.5	85
31	Picosecond Fluorescence of Intact and Dissolved PSI-LHCI Crystals. <i>Biophysical Journal</i> , 2008, 95, 5851-5861.	0.5	85
32	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.	3.4	83
33	The significance of molecular slips in transport systems. <i>Nature Reviews Molecular Cell Biology</i> , 2002, 3, 876-881.	36.5	81
34	A journey from mammals to yeast with vacuolar H ⁺ -ATPase (V-ATPase). <i>Journal of Bioenergetics and Biomembranes</i> , 2003, 35, 281-289.	2.2	79
35	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.	7.4	79
36	Comparison of the Light-Harvesting Networks of Plant and Cyanobacterial Photosystem I. <i>Biophysical Journal</i> , 2005, 89, 1630-1642.	0.5	79

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37	Crystal structures of virus-like photosystem I complexes from the mesophilic cyanobacterium <i>Synechocystis</i> PCC 6803. <i>ELife</i> , 2013, 3, e01496.	5.8	72
38	Structure and function of photosystem I in <i>Cyanidioschyzon merolae</i> . <i>Photosynthesis Research</i> , 2019, 139, 499-508.	2.8	69
39	<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.	7.4	66
40	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.	2.6	64
41	Vacuolar H ⁺ -ATPase "an enzyme for all seasons". <i>Pflugers Archiv European Journal of Physiology</i> , 2009, 457, 581-587.	2.8	64
42	Plant Photosystem I "The Most Efficient Nano-Photochemical Machine". <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1709-1713.	0.9	63
43	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.	3.9	59
44	STRUCTURAL BIOLOGY: Nature's Rotary Electromotors. <i>Science</i> , 2005, 308, 642-644.	19.6	58
45	Functional organization of a plant Photosystem I: Evolution of a highly efficient photochemical machine. <i>Plant Physiology and Biochemistry</i> , 2008, 46, 228-237.	5.9	58
46	Developmental Expression of GABA Transporters GAT1 and GAT4 Suggests Involvement in Brain Maturation. <i>Journal of Neurochemistry</i> , 1996, 67, 857-867.	4.0	54
47	A transcription unit for the Rieske FeS-protein and cytochrome b in <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , 1994, 39, 163-174.	2.8	52
48	The Emerging Structure of Vacuolar ATPases. <i>Physiology</i> , 2006, 21, 317-325.	3.2	51
49	Photosystem I reaction center: past and future. <i>Photosynthesis Research</i> , 2002, 73, 193-206.	2.8	50
50	Light-Harvesting Features Revealed by the Structure of Plant Photosystem I. <i>Photosynthesis Research</i> , 2004, 81, 239-250.	2.8	49
51	Structure of Plant Photosystem I Revealed by Theoretical Modeling. <i>Journal of Biological Chemistry</i> , 2005, 280, 33627-33636.	3.4	48
52	Structure of the plant photosystem I. <i>Biochemical Society Transactions</i> , 2018, 46, 285-294.	3.4	48
53	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.	1.6	46
54	The little we know on the structure and machinery of V-ATPase. <i>Journal of Experimental Biology</i> , 2009, 212, 1604-1610.	1.7	46

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55	Structure of a minimal photosystem I from the green alga <i>Dunaliella salina</i> . <i>Nature Plants</i> , 2020, 6, 321-327.	9.2	45
56	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.	7.4	40
57	Microalgal hydrogen production: prospects of an essential technology for a clean and sustainable energy economy. <i>Photosynthesis Research</i> , 2017, 133, 49-62.	2.8	39
58	The structure of a triple complex of plant photosystem I with ferredoxin and plastocyanin. <i>Nature Plants</i> , 2020, 6, 1300-1305.	9.2	39
59	Photosystem I reaction centers from <i>Chlamydomonas</i> and higher plant chloroplasts. <i>Journal of Bioenergetics and Biomembranes</i> , 1981, 13, 295-306.	2.2	36
60	The vacuolar proton-ATPase of eukaryotic cells. <i>BioEssays</i> , 1987, 7, 251-254.	2.5	34
61	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.	3.4	34
62	Crystal Structure of Photosystem I Monomer From <i>Synechocystis</i> PCC 6803. <i>Frontiers in Plant Science</i> , 2018, 9, 1865.	3.7	34
63	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.	2.6	33
64	The Mutation F227I Increases the Coupling of Metal Ion Transport in DCT1. <i>Journal of Biological Chemistry</i> , 2004, 279, 53056-53061.	3.4	30
65	Large Photovoltages Generated by Plant Photosystem I Crystals. <i>Advanced Materials</i> , 2012, 24, 2988-2991.	23.6	30
66	Temperature-sensitive PSII: a novel approach for sustained photosynthetic hydrogen production. <i>Photosynthesis Research</i> , 2016, 130, 113-121.	2.8	30
67	Evolution of photosystem I and the control of global enthalpy in an oxidizing world. <i>Photosynthesis Research</i> , 2013, 116, 145-151.	2.8	29
68	Structure and Flexibility of the C-Ring in the Electromotor of Rotary FoF1-ATPase of Pea Chloroplasts. <i>PLoS ONE</i> , 2012, 7, e43045.	2.5	29
69	Properties of a novel ATPase enzyme in chromaffin granules. <i>Journal of Bioenergetics and Biomembranes</i> , 1982, 14, 499-512.	2.2	26
70	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.	2.8	25
71	Developmental expression of the neurotransmitter transporter GAT3. <i>Journal of Neuroscience Research</i> , 1999, 55, 394-399.	3.0	25
72	Photosystem I complex. <i>Photosynthesis Research</i> , 1988, 19, 73-84.	2.8	24

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73	Structure and energy transfer pathways of the Dunaliella Salina photosystem I supercomplex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148253.	1.6	24
74	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.	9.2	24
75	Crystallization and initial X-ray diffraction studies of higher plant photosystem I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1824-1827.	2.4	23
76	The Plasticity of Photosystem I. <i>Plant and Cell Physiology</i> , 2021, 62, 1073-1081.	3.1	22
77	Effect of sodium lithium and proton concentrations on the electrophysiological properties of the four mouse GABA transporters expressed in <i>Xenopus oocytes</i> . <i>Neurochemistry International</i> , 2003, 43, 431-443.	3.8	19
78	Solving the structure of plant photosystem I – biochemistry is vital. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 1011.	2.8	19
79	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.	4.1	19
80	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.	14.1	19
81	Structural and functional features of yeast V-ATPase subunit C. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 297-303.	1.6	17
82	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.	1.7	16
83	Structure of plant photosystem I-plastocyanin complex reveals strong hydrophobic interactions. <i>Biochemical Journal</i> , 2021, 478, 2371-2384.	3.7	16
84	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.	1.6	14
85	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.	1.6	13
86	Excitation energy transfer kinetics of trimeric, monomeric and subunit-depleted Photosystem I from <i>Synechocystis PCC 6803</i> . <i>Biochemical Journal</i> , 2021, 478, 1333-1346.	3.7	12
87	Developmental expression of the neurotransmitter transporter NTT4. <i>Journal of Neuroscience Research</i> , 1999, 55, 24-35.	3.0	10
88	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.	4.4	10
89	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.	3.7	8
90	Functional assembly of the chloroplast H ⁺ -ATPase and photosynthetic reaction centres. <i>Biochemical Society Transactions</i> , 1986, 14, 5-7.	3.4	7

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91	Structure of Dunaliella photosystem II reveals conformational flexibility of stacked and unstacked supercomplexes. <i>ELife</i> , 0, 12, .	5.8	7
92	Structure of <i>Chlorella ohadii</i> Photosystem II Reveals Protective Mechanisms against Environmental Stress. <i>Cells</i> , 2023, 12, 1971.	4.2	7
93	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.	2.4	6
94	Evidence for Deep Acceptor Centers in Plant Photosystem I Crystals. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1374-1379.	2.6	4
95	A Glimpse into the Atomic Structure of Plant Photosystem I. , 2008, , 65-81.		2
96	Coupling and Slips in Photosynthetic Reactionsâ€”From Femtoseconds to Eons. <i>Plants</i> , 2023, 12, 3878.	3.6	2
97	Joseph Neumann (1930â€“2017): a scientist and a philosopher. <i>Photosynthesis Research</i> , 2017, 134, 111-115.	2.8	1
98	A Quest for the Atomic Resolution of Plant Photosystem I. , 2017, , 149-157.		1
99	Structure, Function, and Regulation of Plant Photosystem I. , 2006, , 71-77.		1
100	Investigating the Balance between Structural Conservation and Functional Flexibility in Photosystem I. <i>International Journal of Molecular Sciences</i> , 2024, 25, 5073.	4.1	1
101	Higher Plant and Cyanobacterial Photosystem I: Connected Cytochrome Pathways. <i>Advances in Photosynthesis and Respiration</i> , 2016, , 131-142.	0.0	0
102	Feasibility of Sustainable Photosynthetic Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2021, , 567-587.	0.0	0
103	The Structure of Plant Photosystem I â€” The First Membrane Supercomplex Solved by Xâ€ray Crystallography. <i>FASEB Journal</i> , 2006, 20, A489.	0.4	0
104	Structure of plant photosystem I in a native assembly state defines PsaF as a regulatory checkpoint. <i>Nature Plants</i> , 2024, 10, 874-879.	9.2	0