

Nathan Nelson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Plasticity of Photosystem I. <i>Plant and Cell Physiology</i> , 2021 , 62, 1073-1081	4.9	5
116	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	3.8	2
115	Structure of plant photosystem I-plastocyanin complex reveals strong hydrophobic interactions. <i>Biochemical Journal</i> , 2021 , 478, 2371-2384	3.8	6
114	Feasibility of Sustainable Photosynthetic Hydrogen Production. <i>Advances in Photosynthesis and Respiration</i> , 2021 , 567-587	1.7	
113	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	11.5	4
112	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	16.4	2
111	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	6.7	2
110	Structure and energy transfer pathways of the <i>Dunaliella Salina</i> photosystem I supercomplex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020 , 1861, 148253	4.6	11
109	Structure of a minimal photosystem I from the green alga <i>Dunaliella salina</i> . <i>Nature Plants</i> , 2020 , 6, 321-327.5	23	
108	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	6.2	1
107	The structure of a triple complex of plant photosystem I with ferredoxin and plastocyanin. <i>Nature Plants</i> , 2020 , 6, 1300-1305	11.5	15
106	Structure and function of photosystem I in <i>Cyanidioschyzon merolae</i> . <i>Photosynthesis Research</i> , 2019 , 139, 499-508	3.7	46
105	Structure of the plant photosystem I. <i>Biochemical Society Transactions</i> , 2018 , 46, 285-294	5.1	27
104	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	4.6	70
103	Crystal Structure of Photosystem I Monomer From PCC 6803. <i>Frontiers in Plant Science</i> , 2018 , 9, 1865	6.2	21
102	Microalgal hydrogen production: prospects of an essential technology for a clean and sustainable energy economy. <i>Photosynthesis Research</i> , 2017 , 133, 49-62	3.7	24
101	Structure of the plant photosystem I supercomplex at 2.6 Å resolution. <i>Nature Plants</i> , 2017 , 3, 17014	11.5	150

100	Joseph Neumann (1930-2017): a scientist and a philosopher. <i>Photosynthesis Research</i> , 2017 , 134, 111-115.	3.7	1
99	A Quest for the Atomic Resolution of Plant Photosystem I 2017 , 149-157		1
98	Higher Plant and Cyanobacterial Photosystem I: Connected Cytochrome Pathways. <i>Advances in Photosynthesis and Respiration</i> , 2016 , 131-142	1.7	
97	Temperature-sensitive PSII: a novel approach for sustained photosynthetic hydrogen production. <i>Photosynthesis Research</i> , 2016 , 130, 113-121	3.7	22
96	Structure and energy transfer in photosystems of oxygenic photosynthesis. <i>Annual Review of Biochemistry</i> , 2015 , 84, 659-83	29.1	195
95	Plasmodium falciparum 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, 3356-61	11.5	49
94	The structure of plant photosystem I super-complex at 2.8 Å resolution. <i>ELife</i> , 2015 , 4, e07433	8.9	136
93	Evidence for deep acceptor centers in plant photosystem I crystals. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1374-9	3.4	3
92	Evolution of photosystem I and the control of global enthalpy in an oxidizing world. <i>Photosynthesis Research</i> , 2013 , 116, 145-51	3.7	23
91	Crystal structures of virus-like photosystem I complexes from the mesophilic cyanobacterium <i>Synechocystis</i> PCC 6803. <i>ELife</i> , 2013 , 3, e01496	8.9	60
90	Temperature-sensitive PSII and promiscuous PSI as a possible solution for sustainable photosynthetic hydrogen production. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012 , 1817, 1122-6	4.6	12
89	Large photovoltages generated by plant photosystem I crystals. <i>Advanced Materials</i> , 2012 , 24, 2988-91, 2987	24	26
88	Optoelectronic Devices: Large Photovoltages Generated by Plant Photosystem I Crystals (Adv. Mater. 22/2012). <i>Advanced Materials</i> , 2012 , 24, 2987-2987	24	2
87	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, 3400-5	5.8	16
86	Structure and flexibility of the C-ring in the electromotor of rotary F(0)F(1)-ATPase of pea chloroplasts. <i>PLoS ONE</i> , 2012 , 7, e43045	3.7	25
85	Photosystems and global effects of oxygenic photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011 , 1807, 856-63	4.6	77
84	Structure determination and improved model of plant photosystem I. <i>Journal of Biological Chemistry</i> , 2010 , 285, 3478-86	5.4	219
83	Plant photosystem I--the most efficient nano-photochemical machine. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1709-13	1.3	54

82	Plant photosystem I design in the light of evolution. <i>Structure</i> , 2009 , 17, 637-50	5.2	77
81	Vacuolar H(+)-ATPase-an enzyme for all seasons. <i>Pflugers Archiv European Journal of Physiology</i> , 2009 , 457, 581-7	4.6	51
80	Photosystem I gene cassettes are present in marine virus genomes. <i>Nature</i> , 2009 , 461, 258-262	50.4	160
79	The little we know on the structure and machinery of V-ATPase. <i>Journal of Experimental Biology</i> , 2009 , 212, 1604-10	3	40
78	Picosecond fluorescence of intact and dissolved PSI-LHCI crystals. <i>Biophysical Journal</i> , 2008 , 95, 5851-612.9		75
77	Functional organization of a plant Photosystem I: evolution of a highly efficient photochemical machine. <i>Plant Physiology and Biochemistry</i> , 2008 , 46, 228-37	5.4	50
76	The structure of a plant photosystem I supercomplex at 3.4 Å resolution. <i>Nature</i> , 2007 , 447, 58-63	50.4	401
75	The NRAMP family of metal-ion transporters. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2006 , 1763, 609-20	4.9	312
74	Structural and functional features of yeast V-ATPase subunit C. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006 , 1757, 297-303	4.6	13
73	Structure and function of photosystems I and II. <i>Annual Review of Plant Biology</i> , 2006 , 57, 521-65	30.7	714
72	The emerging structure of vacuolar ATPases. <i>Physiology</i> , 2006 , 21, 317-25	9.8	40
71	The Structure of Plant Photosystem I The First Membrane Supercomplex Solved by X-ray Crystallography. <i>FASEB Journal</i> , 2006 , 20, A489	0.9	
70	Structure, Function, and Regulation of Plant Photosystem I 2006 , 71-77		1
69	Solving the structure of plant photosystem I--biochemistry is vital. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 1011-5	4.2	18
68	Comparison of the light-harvesting networks of plant and cyanobacterial photosystem I. <i>Biophysical Journal</i> , 2005 , 89, 1630-42	2.9	72
67	Structural biology. Nature's rotary electromotors. <i>Science</i> , 2005 , 308, 642-4	33.3	49
66	The structure of photosystem I and evolution of photosynthesis. <i>BioEssays</i> , 2005 , 27, 914-22	4.1	72
65	Structure of plant photosystem I revealed by theoretical modeling. <i>Journal of Biological Chemistry</i> , 2005 , 280, 33627-36	5.4	42

64	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> , 2005 , 102, 6154-9	11.5	72
63	The mutation F227I increases the coupling of metal ion transport in DCT1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 53056-61	5.4	26
62	The complex architecture of oxygenic photosynthesis. <i>Nature Reviews Molecular Cell Biology</i> , 2004 , 5, 971-82	48.7	423
61	Crystal structure of yeast V-ATPase subunit C reveals its stator function. <i>EMBO Reports</i> , 2004 , 5, 1148-52	26.5	118
60	Light-harvesting features revealed by the structure of plant photosystem I. <i>Photosynthesis Research</i> , 2004 , 81, 239-50	3.7	42
59	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, 1906-9		5
58	Evolution of photosystem I - from symmetry through pseudo-symmetry to asymmetry. <i>FEBS Letters</i> , 2004 , 564, 274-80	3.8	140
57	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, 10694-9	11.5	34
56	A journey from mammals to yeast with vacuolar H ⁺ -ATPase (V-ATPase). <i>Journal of Bioenergetics and Biomembranes</i> , 2003 , 35, 281-9	3.7	64
55	Crystallization and initial X-ray diffraction studies of higher plant photosystem I. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003 , 59, 1824-7		21
54	Crystal structure of plant photosystem I. <i>Nature</i> , 2003 , 426, 630-5	50.4	701
53	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, 431-43	4.4	18
52	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, 3227-37	3	14
51	The significance of molecular slips in transport systems. <i>Nature Reviews Molecular Cell Biology</i> , 2002 , 3, 876-81	48.7	74
50	Photosystem I reaction center: past and future. <i>Photosynthesis Research</i> , 2002 , 73, 193-206	3.7	49
49	Differential effect of pH on sodium binding by the various GABA transporters expressed in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 2002 , 527, 125-32	3.8	10
48	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	3	65
47	Features of V-ATPases that distinguish them from F-ATPases. <i>FEBS Letters</i> , 2001 , 504, 223-8	3.8	22

46	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, 40088-95	5.4	25
45	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, 489-98	4.6	11
44	Vacuolar and plasma membrane proton-adenosinetriphosphatases. <i>Physiological Reviews</i> , 1999 , 79, 361-379	4.9	351
43	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, 26885-93	5.4	70
42	Yeast SMF1 mediates H ⁽⁺⁾ -coupled iron uptake with concomitant uncoupled cation currents. <i>Journal of Biological Chemistry</i> , 1999 , 274, 35089-94	5.4	125
41	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, 254-63		48
40	Developmental expression of the neurotransmitter transporter NTT4. <i>Journal of Neuroscience Research</i> , 1999 , 55, 24-35	4.4	8
39	Developmental expression of the neurotransmitter transporter GAT3. <i>Journal of Neuroscience Research</i> , 1999 , 55, 394-9	4.4	16
38	The Family of Na ⁺ /Cl ⁻ neurotransmitter transporters. <i>Journal of Neurochemistry</i> , 1998 , 71, 1785-803	6	280
37	Negative control of heavy metal uptake by the <i>Saccharomyces cerevisiae</i> BSD2 gene. <i>Journal of Biological Chemistry</i> , 1997 , 272, 11763-9	5.4	137
36	Developmental expression of the glycine transporters GLYT1 and GLYT2 in mouse brain. <i>Journal of Neurochemistry</i> , 1996 , 67, 336-44	6	82
35	Developmental expression of GABA transporters GAT1 and GAT4 suggests involvement in brain maturation. <i>Journal of Neurochemistry</i> , 1996 , 67, 857-67	6	48
34	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	3.6	31
33	Localization of glycine neurotransmitter transporter (GLYT2) reveals correlation with the distribution of glycine receptor. <i>Journal of Neurochemistry</i> , 1995 , 64, 1026-33	6	115
32	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, 13726-32	5.4	82
31	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, 9617-24	3.2	60
30	A transcription unit for the Rieske FeS-protein and cytochrome b in <i>Chlorobium limicola</i> . <i>Photosynthesis Research</i> , 1994 , 39, 163-74	3.7	50
29	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, 111-4	3.7	24

28	A rat brain cDNA encoding the neurotransmitter transporter with an unusual structure. <i>FEBS Letters</i> , 1993 , 315, 114-8	3.8	58
27	The nuclear-encoded polypeptide Cfo-II from spinach is a real, ninth subunit of chloroplast ATP synthase. <i>FEBS Letters</i> , 1993 , 326, 192-8	3.8	47
26	Evolution of organellar proton-ATPases. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1992 , 1100, 109-24.6	4.6	156
25	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	4.6	41
24	Cloning and expression of a glycine transporter from mouse brain. <i>FEBS Letters</i> , 1992 , 305, 110-4	3.8	147
23	The atp1 and atp2 operons of the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Plant Molecular Biology</i> , 1991 , 17, 641-52	4.6	51
22	Cloning of the human brain GABA transporter. <i>FEBS Letters</i> , 1990 , 269, 181-4	3.8	144
21	Structure, molecular genetics, and evolution of vacuolar H ⁺ -ATPases. <i>Journal of Bioenergetics and Biomembranes</i> , 1989 , 21, 553-71	3.7	128
20	Lysosomal H ⁺ -translocating ATPase has a similar subunit structure to chromaffin granule H ⁺ -ATPase complex. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 980, 241-7	3.8	78
19	The progenitor of ATP synthases was closely related to the current vacuolar H ⁺ -ATPase. <i>FEBS Letters</i> , 1989 , 247, 147-53	3.8	144
18	Photosystem I complex. <i>Photosynthesis Research</i> , 1988 , 19, 73-84	3.7	22
17	Inhibition of vacuolar H ⁺ -ATPases by fusidic acid and suramin. <i>FEBS Letters</i> , 1988 , 234, 383-6	3.8	32
16	The vacuolar proton-ATPase of eukaryotic cells. <i>BioEssays</i> , 1987 , 7, 251-4	4.1	30
15	Functional assembly of the chloroplast H ⁺ -ATPase and photosynthetic reaction centres. <i>Biochemical Society Transactions</i> , 1986 , 14, 5-7	5.1	6
14	Isolation of cDNA clones for fourteen nuclear-encoded thylakoid membrane proteins. <i>Molecular Genetics and Genomics</i> , 1986 , 204, 258-265		86
13	Photosystem I reaction centers from maize bundle-sheath and mesophyll chloroplasts lack subunit III. <i>FEBS Journal</i> , 1986 , 159, 157-61		20
12	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		68
11	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	3.8	23

10	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	4.6	101
9	Properties of a novel ATPase enzyme in chromaffin granules. <i>Journal of Bioenergetics and Biomembranes</i> , 1982 , 14, 499-512	3.7	24
8	Photosystem I reaction centers from Chlamydomonas and higher plant chloroplasts. <i>Journal of Bioenergetics and Biomembranes</i> , 1981 , 13, 295-306	3.7	35
7	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, 535-43		70
6	Specific immunoprecipitation of ATPase from Escherichia coli. <i>FEBS Letters</i> , 1978 , 91, 85-9	3.8	4
5	Subunit Structure of Chloroplast Photosystem I Reaction Center. <i>Journal of Biological Chemistry</i> , 1977 , 252, 4564-4569	5.4	224
4	The role of delta subunit in the coupling activity of chloroplast coupling factor 1. <i>FEBS Letters</i> , 1976 , 70, 249-53	3.8	42
3	Salt inactivation as a mechanistic probe of membrane-bound chloroplast coupling factor 1. <i>FEBS Journal</i> , 1976 , 69, 203-8		12
2	Partial Resolution of the Enzymes Catalyzing Photophosphorylation. <i>Journal of Biological Chemistry</i> , 1972 , 247, 7657-7662	5.4	203
1	A Glimpse into the Atomic Structure of Plant Photosystem I 65-81		2