

Francis-AndrÃ© Wollman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8444401/publications.pdf>

Version: 2024-02-01

77
papers

5,900
citations

61984

43
h-index

74163

75
g-index

83
all docs

83
docs citations

83
times ranked

3880
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dynamics of Photosynthesis. Annual Review of Genetics, 2008, 42, 463-515.	7.6	585
2	A Chloroplast-Targeted Heat Shock Protein 70 (HSP70) Contributes to the Photoprotection and Repair of Photosystem II during and after Photoinhibition. Plant Cell, 1999, 11, 1165-1178.	6.6	282
3	The biogenesis and assembly of photosynthetic proteins in thylakoid membranes. Biochimica Et Biophysica Acta - Bioenergetics, 1999, 1411, 21-85.	1.0	225
4	Searching limiting steps in the expression of chloroplast-encoded proteins: relations between gene copy number, transcription, transcript abundance and translation rate in the chloroplast of Chlamydomonas reinhardtii. Plant Journal, 2002, 31, 149-160.	5.7	217
5	Cyclic electron flow is redox-controlled but independent of state transition. Nature Communications, 2013, 4, 1954.	12.8	186
6	ATP control on state transitions in vivo in Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1020, 72-80.	1.0	169
7	Plastid terminal oxidase 2 (PTOX2) is the major oxidase involved in chlororespiration in Chlamydomonas. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20820-20825.	7.1	158
8	Evidence for a Role of ClpP in the Degradation of the Chloroplast Cytochrome b6f Complex. Plant Cell, 2000, 12, 137-149.	6.6	152
9	The Plastid Terminal Oxidase: Its Elusive Function Points to Multiple Contributions to Plastid Physiology. Annual Review of Plant Biology, 2015, 66, 49-74.	18.7	147
10	A new chlorophyll-protein complex related to Photosystem I in Chlamydomonas reinhardtii. Biochimica Et Biophysica Acta - Bioenergetics, 1982, 680, 352-360.	1.0	127
11	Chloroplast Biogenesis of Photosystem II Cores Involves a Series of Assembly-Controlled Steps That Regulate Translation. Plant Cell, 2006, 18, 159-175.	6.6	127
12	Studies on kinase-controlled state transitions in Photosystem II and b6f mutants from Chlamydomonas reinhardtii which lack quinone-binding proteins. Biochimica Et Biophysica Acta - Bioenergetics, 1988, 933, 85-94.	1.0	125
13	MRL1, a Conserved Pentatricopeptide Repeat Protein, Is Required for Stabilization of rbcL mRNA in Chlamydomonas and Arabidopsis. Plant Cell, 2010, 22, 234-248.	6.6	121
14	Translational regulations as specific traits of chloroplast gene expression. FEBS Letters, 2002, 529, 39-42.	2.8	119
15	Biogenesis of PSI involves a cascade of translational autoregulation in the chloroplast of Chlamydomonas. EMBO Journal, 2004, 23, 2696-2705.	7.8	117
16	Impaired respiration discloses the physiological significance of state transitions in Chlamydomonas. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15979-15984.	7.1	115
17	Thylakoid FtsH Protease Contributes to Photosystem II and Cytochrome b6f Remodeling in Chlamydomonas reinhardtii under Stress Conditions. Plant Cell, 2014, 26, 373-390.	6.6	113
18	Isolation and Characterization of Photoautotrophic Mutants of Chlamydomonas reinhardtii Deficient in State Transition. Journal of Biological Chemistry, 1999, 274, 30987-30994.	3.4	110

#	ARTICLE	IF	CITATIONS
19	Nitric Oxide-Triggered Remodeling of Chloroplast Bioenergetics and Thylakoid Proteins upon Nitrogen Starvation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 353-372.	6.6	110
20	Extensive accumulation of an extracellular l-amino-acid oxidase during gametogenesis of <i>Chlamydomonas reinhardtii</i> . <i>FEBS Journal</i> , 1993, 215, 351-360.	0.2	100
21	Studies on the cytochrome b ₆ /f complex. I. Characterization of the complex subunits in <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 851, 229-238.	1.0	99
22	The Chloroplastic GrpE Homolog of <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2001, 13, 2823-2839.	6.6	98
23	Molecular Genetic Identification of a Pathway for Heme Binding to Cytochrome b ₆ . <i>Journal of Biological Chemistry</i> , 1997, 272, 32427-32435.	3.4	95
24	A New Subunit of Cytochrome b ₆ /f Complex Undergoes Reversible Phosphorylation upon State Transition. <i>Journal of Biological Chemistry</i> , 2000, 275, 17072-17079.	3.4	92
25	Evidence for regulatory function of nucleus-encoded factors on mRNA stabilization and translation in the chloroplast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9093-9098.	7.1	87
26	State transitions redistribute rather than dissipate energy between the two photosystems in <i>Chlamydomonas</i> . <i>Nature Plants</i> , 2016, 2, 16031.	9.3	85
27	Cytochrome Translation in <i>Chlamydomonas</i> Chloroplast Is Autoregulated by its Carboxyl-Terminal Domain [W]. <i>Plant Cell</i> , 2003, 15, 1443-1454.	6.6	75
28	Function of the polypeptides of the photosystem II reaction center in <i>Chlamydomonas reinhardtii</i> . Localization of the primary reactants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1984, 767, 415-422.	1.0	74
29	Evidence for a selective destabilization of an integral membrane protein, the cytochrome b ₆ /f complex, during gametogenesis in <i>Chlamydomonas reinhardtii</i> . <i>FEBS Journal</i> , 1992, 204, 327-336.	0.2	73
30	The Light Sensitivity of ATP Synthase Mutants of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2001, 126, 421-433.	4.8	70
31	The Nucleus-Encoded <i>trans</i> -Acting Factor MCA1 Plays a Critical Role in the Regulation of Cytochrome <i>cis</i> -Synthesis in <i>Chlamydomonas</i> Chloroplasts. <i>Plant Cell</i> , 2011, 23, 333-349.	6.6	70
32	Genetic Analysis of Chloroplast c-Type Cytochrome Assembly in <i>Chlamydomonas reinhardtii</i> : One Chloroplast Locus and at Least Four Nuclear Loci Are Required for Heme Attachment. <i>Genetics</i> , 1998, 148, 681-692.	2.9	68
33	A specific c-type cytochrome maturation system is required for oxygenic photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9906-9910.	7.1	65
34	Dual functions of the nucleus-encoded factor TDA1 in trapping and translation activation of <i>atpA</i> transcripts in <i>Chlamydomonas reinhardtii</i> chloroplasts. <i>Plant Journal</i> , 2011, 67, 1055-1066.	5.7	65
35	Molecular Identification and Function of <i>cis</i> - and <i>trans</i> -Acting Determinants for <i>petA</i> Transcript Stability in <i>Chlamydomonas reinhardtii</i> Chloroplasts. <i>Molecular and Cellular Biology</i> , 2008, 28, 5529-5542.	2.3	64
36	Thylakoid targeting of Tat passenger proteins shows no Δ pH dependence in vivo. <i>EMBO Journal</i> , 2003, 22, 807-815.	7.8	61

#	ARTICLE	IF	CITATIONS
37	Intertwined translational regulations set uneven stoichiometry of chloroplast ATP synthase subunits. <i>EMBO Journal</i> , 2007, 26, 3581-3591.	7.8	60
38	A new setup for in vivo fluorescence imaging of photosynthetic activity. <i>Photosynthesis Research</i> , 2009, 102, 85-93.	2.9	59
39	Conversion of Cytochrome f to a Soluble Form in Vivo in <i>Chlamydomonas reinhardtii</i> . <i>Biochemistry</i> , 1995, 34, 7468-7475.	2.5	57
40	The Chloroplast Rieske Iron-Sulfur Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 44621-44627.	3.4	57
41	Small RNA profiling in <i>Chlamydomonas</i> : insights into chloroplast RNA metabolism. <i>Nucleic Acids Research</i> , 2017, 45, 10783-10799.	14.5	54
42	Photosynthetic growth despite a broken Q-cycle. <i>Nature Communications</i> , 2011, 2, 301.	12.8	47
43	Function-Directed Mutagenesis of the Cytochrome b6/f Complex in <i>Chlamydomonas reinhardtii</i> : Involvement of the cd Loop of Cytochrome b6 in Quinol Binding to the Qo Site. <i>Biochemistry</i> , 1997, 36, 2867-2874.	2.5	46
44	A Millifluidic Study of Cell-to-Cell Heterogeneity in Growth-Rate and Cell-Division Capability in Populations of Isogenic Cells of <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2015, 10, e0118987.	2.5	45
45	Maturation of Pre-apocytochrome f in Vivo. <i>Journal of Biological Chemistry</i> , 1995, 270, 27797-27803.	3.4	44
46	Ultrastructure of thylakoid membranes in <i>C. reinhardtii</i> : Evidence for variations in the partition coefficient of the light-harvesting complex-containing particles upon membrane fracture. <i>Archives of Biochemistry and Biophysics</i> , 1981, 208, 456-467.	3.0	43
47	The High Light Response and Redox Control of Thylakoid FtsH Protease in <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , 2017, 10, 99-114.	8.3	42
48	Studies on the cytochrome b6/f complex. II. Localization of the complex in the thylakoid membranes from spinach and <i>Chlamydomonas reinhardtii</i> by immunocytochemistry and freeze-fracture analysis of b6/f mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1986, 851, 239-248.	1.0	40
49	A single mutation that causes phosphatidylglycerol deficiency impairs synthesis of photosystem II cores in <i>Chlamydomonas reinhardtii</i> . <i>FEBS Journal</i> , 2004, 271, 329-338.	0.2	40
50	Nitric Oxide Remodels the Photosynthetic Apparatus upon S-Starvation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2019, 179, 718-731.	4.8	40
51	Functional Accumulation of Antenna Proteins in Chlorophyll b-Less Mutants of <i>Chlamydomonas reinhardtii</i> . <i>Molecular Plant</i> , 2017, 10, 115-130.	8.3	38
52	Spontaneous Dominant Mutations in <i>Chlamydomonas</i> Highlight Ongoing Evolution by Gene Diversification. <i>Plant Cell</i> , 2015, 27, 984-1001.	6.6	35
53	Chlororespiration Controls Growth Under Intermittent Light. <i>Plant Physiology</i> , 2019, 179, 630-639.	4.8	35
54	PETOA Interacts with Other Effectors of Cyclic Electron Flow in <i>Chlamydomonas</i> . <i>Molecular Plant</i> , 2016, 9, 558-568.	8.3	34

#	ARTICLE	IF	CITATIONS
55	An antimicrobial origin of transit peptides accounts for early endosymbiotic events. <i>Traffic</i> , 2016, 17, 1322-1328.	2.7	33
56	Evidence for Nuclear Control of the Expression of the <i>atpA</i> and <i>atpB</i> Chloroplast Genes in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 1992, 4, 283.	6.6	31
57	A dominant nuclear mutation in <i>Chlamydomonas</i> identifies a factor controlling chloroplast mRNA stability by acting on the coding region of the <i>atpA</i> transcript. <i>Plant Journal</i> , 2002, 31, 687-697.	5.7	29
58	The Involvement of Hydrogen-producing and ATP-dependent NADPH-consuming Pathways in Setting the Redox Poise in the Chloroplast of <i>Chlamydomonas reinhardtii</i> in Anoxia. <i>Journal of Biological Chemistry</i> , 2015, 290, 8666-8676.	3.4	27
59	Probing the electric field across thylakoid membranes in cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21900-21906.	7.1	24
60	The <i>Chlamydomonas deg1c</i> Mutant Accumulates Proteins Involved in High Light Acclimation. <i>Plant Physiology</i> , 2019, 181, 1480-1497.	4.8	24
61	The labile interactions of cyclic electron flow effector proteins. <i>Journal of Biological Chemistry</i> , 2018, 293, 17559-17573.	3.4	23
62	Novel Thylakoid Membrane GreenCut Protein CPLD38 Impacts Accumulation of the Cytochrome <i>b6f</i> Complex and Associated Regulatory Processes. <i>Journal of Biological Chemistry</i> , 2013, 288, 7024-7036.	3.4	22
63	The OPR Protein MTH1 Controls the Expression of Two Different Subunits of ATP Synthase <i>Cfo</i> in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2020, 32, 1179-1203.	6.6	22
64	Chloroplasts Can Accommodate Inclusion Bodies. <i>Journal of Biological Chemistry</i> , 1995, 270, 15299-15306.	3.4	20
65	The state of oligomerization of Rubisco controls the rate of synthesis of the Rubisco large subunit in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2021, 33, 1706-1727.	6.6	20
66	Evidence Supporting an Antimicrobial Origin of Targeting Peptides to Endosymbiotic Organelles. <i>Cells</i> , 2020, 9, 1795.	4.1	19
67	TEF30 Interacts with Photosystem II Monomers and Is Involved in the Repair of Photodamaged Photosystem II in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2016, 170, 821-840.	4.8	18
68	Complexome profiling on the <i>Chlamydomonas lpa2</i> mutant reveals insights into PSII biogenesis and new PSII associated proteins. <i>Journal of Experimental Botany</i> , 2022, 73, 245-262.	4.8	18
69	The CES Process. , 2009, , 1027-1063.		17
70	Functional Characterization of <i>Chlamydomonas</i> Mutants Defective in Cytochrome <i>f</i> Maturation. <i>Journal of Biological Chemistry</i> , 1999, 274, 22957-22967.	3.4	16
71	MDA1, a nucleus-encoded factor involved in the stabilization and processing of the <i>atpA</i> transcript in the chloroplast of <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2019, 98, 1033-1047.	5.7	14
72	In vivo electron donation from plastocyanin and cytochrome <i>c</i> to PSI in <i>Synechocystis</i> sp. PCC6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148449.	1.0	14

#	ARTICLE	IF	CITATIONS
73	Role of ClpP in the Biogenesis and Degradation of RuBisCO and ATP Synthase in <i>Chlamydomonas reinhardtii</i> . <i>Plants</i> , 2019, 8, 191.	3.5	13
74	GreenCut protein <i>CPLD49</i> of <i>Chlamydomonas reinhardtii</i> associates with thylakoid membranes and is required for cytochrome <i>b₆f</i> complex accumulation. <i>Plant Journal</i> , 2018, 94, 1023-1037.	5.7	10
75	Evidence for a Role of ClpP in the Degradation of the Chloroplast Cytochrome <i>b₆f</i> Complex. <i>Plant Cell</i> , 2000, 12, 137.	6.6	6
76	The BF4 and p71 antenna mutants from <i>Chlamydomonas reinhardtii</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148085.	1.0	5
77	Assembly Apparatus of Light-Harvesting Complexes: Identification of Alb3.1 cpSRP-LHCP Complexes in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2022, 63, 70-81.	3.1	5