

# Krishna K Niyogi

## List of Publications by Year in descending order

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137  
papers

25,893  
citations

10389

72  
h-index

11308

136  
g-index

149  
all docs

149  
docs citations

149  
times ranked

15585  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genotype-dependent contribution of CBF transcription factors to long-term acclimation to high light and cool temperature. <i>Plant, Cell and Environment</i> , 2022, 45, 392-411.	5.7	7
2	Chromatin Changes in Phytochrome Interacting Factor-Regulated Genes Parallel Their Rapid Transcriptional Response to Light. <i>Frontiers in Plant Science</i> , 2022, 13, 803441.	3.6	8
3	Systematic characterization of gene function in the photosynthetic alga <i>Chlamydomonas reinhardtii</i> . <i>Nature Genetics</i> , 2022, 54, 705-714.	21.4	42
4	Xanthophyll-cycle based model of the rapid photoprotection of <i>Nannochloropsis</i> in response to regular and irregular light/dark sequences. <i>Journal of Chemical Physics</i> , 2022, 156, .	3.0	9
5	Interplay between LHCSR proteins and state transitions governs the NPQ response in <i>Chlamydomonas</i> during light fluctuations. <i>Plant, Cell and Environment</i> , 2022, 45, 2428-2445.	5.7	8
6	Widespread polycistronic gene expression in green algae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
7	Natural ultraviolet radiation exposure alters photosynthetic biology and improves recovery from desiccation in a desert moss. <i>Journal of Experimental Botany</i> , 2021, 72, 4161-4179.	4.8	12
8	<i>Chlamydomonas</i> as a model for reactive oxygen species signaling and thiol redox regulation in the green lineage. <i>Plant Physiology</i> , 2021, 187, 687-698.	4.8	18
9	Quantitative imaging of RNA polymerase II activity in plants reveals the single-cell basis of tissue-wide transcriptional dynamics. <i>Nature Plants</i> , 2021, 7, 1037-1049.	9.3	34
10	Discovery of photosynthesis genes through whole-genome sequencing of acetate-requiring mutants of <i>Chlamydomonas reinhardtii</i> . <i>PLoS Genetics</i> , 2021, 17, e1009725.	3.5	18
11	High light and temperature reduce photosynthetic efficiency through different mechanisms in the C4 model <i>Setaria viridis</i> . <i>Communications Biology</i> , 2021, 4, 1092.	4.4	25
12	Role of an ancient light-harvesting protein of PSI in light absorption and photoprotection. <i>Nature Communications</i> , 2021, 12, 679.	12.8	28
13	Complex Roles of PsbS and Xanthophylls in the Regulation of Nonphotochemical Quenching in <i>Arabidopsis thaliana</i> under Fluctuating Light. <i>Journal of Physical Chemistry B</i> , 2020, 124, 10311-10325.	2.6	27
14	The role of mixed vibronic Qy-Qx states in green light absorption of light-harvesting complex II. <i>Nature Communications</i> , 2020, 11, 6011.	12.8	20
15	Chloroplast Sec14-like 1 (CPSFL1) is essential for normal chloroplast development and affects carotenoid accumulation in <i>Chlamydomonas</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12452-12463.	7.1	17
16	An algal enzyme required for biosynthesis of the most abundant marine carotenoids. <i>Science Advances</i> , 2020, 6, eaaw9183.	10.3	41
17	Vibronic mixing enables ultrafast energy flow in light-harvesting complex II. <i>Nature Communications</i> , 2020, 11, 1460.	12.8	57
18	A Sec14 domain protein is required for photoautotrophic growth and chloroplast vesicle formation in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9101-9111.	7.1	28

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19	Atomic Force Microscopy Visualizes Mobility of Photosynthetic Proteins in Grana Thylakoid Membranes. <i>Biophysical Journal</i> , 2020, 118, 1876-1886.	0.5	6
20	An atypical short-chain dehydrogenase/reductase functions in the relaxation of photoprotective qH in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2020, 6, 154-166.	9.3	27
21	Hexokinase is necessary for glucose-mediated photosynthesis repression and lipid accumulation in a green alga. <i>Communications Biology</i> , 2019, 2, 347.	4.4	30
22	Regulation of Oxygenic Photosynthesis during Trophic Transitions in the Green Alga <i>Chromochloris zofingiensis</i> . <i>Plant Cell</i> , 2019, 31, 579-601.	6.6	61
23	Chlorophyll-carotenoid excitation energy transfer and charge transfer in <i>Nannochloropsis oceanica</i> for the regulation of photosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3385-3390.	7.1	81
24	A thylakoid membrane-bound and redox-active rubredoxin (RBD1) functions in de novo assembly and repair of photosystem II. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16631-16640.	7.1	30
25	Transcriptomic analysis of field-droughted sorghum from seedling to maturity reveals biotic and metabolic responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 27124-27132.	7.1	129
26	Regulation of photoprotection gene expression in <i>Chlamydomonas</i> by a putative E3 ubiquitin ligase complex and a homolog of CONSTANS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17556-17562.	7.1	44
27	Photosystem II Subunit S overexpression increases the efficiency of water use in a field-grown crop. <i>Nature Communications</i> , 2018, 9, 868.	12.8	181
28	GreenCut protein <i>scpCPLD</i> 49 of <i>Chlamydomonas reinhardtii</i> associates with thylakoid membranes and is required for cytochrome <i>b<sub>6</sub>f</i> complex accumulation. <i>Plant Journal</i> , 2018, 94, 1023-1037.	5.7	10
29	The Plastid Lipocalin LCNP Is Required for Sustained Photoprotective Energy Dissipation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2018, 30, 196-208.	6.6	93
30	A unique supramolecular organization of photosystem I in the moss <i>Physcomitrella patens</i> . <i>Nature Plants</i> , 2018, 4, 904-909.	9.3	36
31	Chlorophyll-Carotenoid Excitation Energy Transfer in High-Light-Exposed Thylakoid Membranes Investigated by Snapshot Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 11965-11973.	13.7	43
32	Subdiffraction-resolution live-cell imaging for visualizing thylakoid membranes. <i>Plant Journal</i> , 2018, 96, 233-243.	5.7	36
33	Photosynthetic antenna engineering to improve crop yields. <i>Planta</i> , 2017, 245, 1009-1020.	3.2	94
34	Two mechanisms for dissipation of excess light in monomeric and trimeric light-harvesting complexes. <i>Nature Plants</i> , 2017, 3, 17033.	9.3	121
35	The carbonic anhydrase CAH1 is an essential component of the carbon-concentrating mechanism in <i>Nannochloropsis oceanica</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4537-4542.	7.1	86
36	Chromosome-level genome assembly and transcriptome of the green alga <i>Chromochloris zofingiensis</i> illuminates astaxanthin production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E4296-E4305.	7.1	131

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37	Editorial overview: Physiology and metabolism: Light responses from photoreceptors to photosynthesis and photoprotection. <i>Current Opinion in Plant Biology</i> , 2017, 37, iv-vi.	7.1	8
38	Snapshot Transient Absorption Spectroscopy of Carotenoid Radical Cations in High-Light-Acclimating Thylakoid Membranes. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5548-5554.	4.6	26
39	Engineering the lutein epoxide cycle into <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7002-E7008.	7.1	34
40	Dissecting and modeling zeaxanthin- and lutein-dependent nonphotochemical quenching in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7009-E7017.	7.1	46
41	Enhanced FIB-SEM systems for large-volume 3D imaging. <i>ELife</i> , 2017, 6, .	6.0	273
42	An evaluation of new and established methods to determine Tâ€DNA copy number and homozygosity in transgenic plants.. <i>Plant, Cell and Environment</i> , 2016, 39, 908-917.	5.7	77
43	Photosystem II Subunit PsbS Is Involved in the Induction of LHCSR Protein-dependent Energy Dissipation in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 17478-17487.	3.4	100
44	UV-B photoreceptor-mediated protection of the photosynthetic machinery in <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 14864-14869.	7.1	129
45	Transient expression in <i>Nicotiana benthamiana</i> for rapid functional analysis of genes involved in nonâ€photochemical quenching and carotenoid biosynthesis. <i>Plant Journal</i> , 2016, 88, 375-386.	5.7	34
46	Improving photosynthesis and crop productivity by accelerating recovery from photoprotection. <i>Science</i> , 2016, 354, 857-861.	12.6	975
47	Evolution of an atypical de-epoxidase for photoprotection in the green lineage. <i>Nature Plants</i> , 2016, 2, 16140.	9.3	50
48	Regulation and Levels of the Thylakoid K <sup>+</sup> /H <sup>+</sup> Antiporter KEA3 Shape the Dynamic Response of Photosynthesis in Fluctuating Light. <i>Plant and Cell Physiology</i> , 2016, 57, pcw085.	3.1	70
49	Mg chelatase in chlorophyll synthesis and retrograde signaling in <i>Chlamydomonas reinhardtii</i> : CHL12 cannot substitute for CHL11. <i>Journal of Experimental Botany</i> , 2016, 67, 3925-3938.	4.8	26
50	Identification of pH-sensing Sites in the Light Harvesting Complex Stress-related 3 Protein Essential for Triggering Non-photochemical Quenching in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 7334-7346.	3.4	100
51	Deletion of the gene family of small chlorophyll-binding proteins (ScpABCDE) offsets C/N homeostasis in <i>Synechocystis</i> PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 396-407.	1.0	9
52	Lineage-specific chromatin signatures reveal a regulator of lipid metabolism in microalgae. <i>Nature Plants</i> , 2015, 1, 15107.	9.3	89
53	Light stress and photoprotection in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2015, 82, 449-465.	5.7	284
54	Large-scale insertional mutagenesis of <i>Chlamydomonas</i> supports phylogenomic functional prediction of photosynthetic genes and analysis of classical acetateâ€requiring mutants. <i>Plant Journal</i> , 2015, 82, 337-351.	5.7	65

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55	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8529-8536.	7.1	751
56	Functional Implications of Photosystem II Crystal Formation in Photosynthetic Membranes. Journal of Biological Chemistry, 2015, 290, 14091-14106.	3.4	45
57	Atomic Force Microscopy of Photosystem II and Its Unit Cell Clustering Quantitatively Delineate the Mesoscale Variability in Arabidopsis Thylakoids. PLoS ONE, 2014, 9, e101470.	2.5	21
58	Distinct roles of the photosystem II protein PsbS and zeaxanthin in the regulation of light harvesting in plants revealed by fluorescence lifetime snapshots. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17498-17503.	7.1	57
59	The <i>GUN4</i> protein plays a regulatory role in tetrapyrrole biosynthesis and chloroplast-nucleus signalling in <i>Chlamydomonas reinhardtii</i> . Plant Journal, 2014, 79, 285-298.	5.7	41
60	Introduction of a Synthetic CO <sub>2</sub> -fixing Photorespiratory Bypass into a Cyanobacterium. Journal of Biological Chemistry, 2014, 289, 9493-9500.	3.4	87
61	Proton Gradient Regulation 5-Mediated Cyclic Electron Flow under ATP- or Redox-Limited Conditions: A Study of <i>ATPase pgr5</i> and <i>rbcL pgr5</i> Mutants in the Green Alga <i>Chlamydomonas reinhardtii</i> . Plant Physiology, 2014, 165, 438-452.	4.8	127
62	Dynamic Mechanical Responses of Arabidopsis Thylakoid Membranes during PSII-Specific Illumination. Biophysical Journal, 2014, 106, 1864-1870.	0.5	9
63	Phosphoprotein SAK1 is a regulator of acclimation to singlet oxygen in <i>Chlamydomonas reinhardtii</i> . ELife, 2014, 3, e02286.	6.0	45
64	A Dual Strategy to Cope with High Light in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2013, 25, 545-557.	6.6	193
65	Evolution of flexible non-photochemical quenching mechanisms that regulate light harvesting in oxygenic photosynthesis. Current Opinion in Plant Biology, 2013, 16, 307-314.	7.1	421
66	A thioredoxin-like $\beta$ -propeller protein maintains the efficiency of light harvesting in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2733-40.	7.1	72
67	Photosynthesis of Root Chloroplasts Developed in Arabidopsis Lines Overexpressing GOLDEN2-LIKE Transcription Factors. Plant and Cell Physiology, 2013, 54, 1365-1377.	3.1	94
68	Novel Thylakoid Membrane GreenCut Protein CPLD38 Impacts Accumulation of the Cytochrome b6f Complex and Associated Regulatory Processes. Journal of Biological Chemistry, 2013, 288, 7024-7036.	3.4	22
69	A Conserved Rubredoxin Is Necessary for Photosystem II Accumulation in Diverse Oxygenic Photoautotrophs. Journal of Biological Chemistry, 2013, 288, 26688-26696.	3.4	61
70	Retrograde bilin signaling enables <i>Chlamydomonas</i> greening and phototrophic survival. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3621-3626.	7.1	107
71	Genome, Functional Gene Annotation, and Nuclear Transformation of the Heterokont Oleaginous Alga <i>Nannochloropsis oceanica</i> CCMP1779. PLoS Genetics, 2012, 8, e1003064.	3.5	376
72	<i>SINGLET OXYGEN RESISTANT 1</i> links reactive electrophile signaling to singlet oxygen acclimation in <i>Chlamydomonas reinhardtii</i> . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1302-11.	7.1	95

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73	Overlapping Photoprotective Function of Vitamin E and Carotenoids in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2012, 158, 313-323.	4.8	49
74	The Arabidopsis <i>szl1</i> Mutant Reveals a Critical Role of $\beta^2$ -Carotene in Photosystem I Photoprotection. <i>Plant Physiology</i> , 2012, 159, 1745-1758.	4.8	131
75	A kinetic model of rapidly reversible nonphotochemical quenching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15757-15762.	7.1	133
76	Intragenic Enhancers and Suppressors of Phytoene Desaturase Mutations in <i>Chlamydomonas reinhardtii</i> . <i>PLoS ONE</i> , 2012, 7, e42196.	2.5	24
77	Fluorescence lifetime snapshots reveal two rapidly reversible mechanisms of photoprotection in live cells of <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 8405-8410.	7.1	37
78	High-efficiency homologous recombination in the oil-producing alga <i>Nannochloropsis</i> sp.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21265-21269.	7.1	394
79	Manipulation of Photoprotection to Improve Plant Photosynthesis. <i>Plant Physiology</i> , 2011, 155, 86-92.	4.8	396
80	Analysis of LhcSR3, a Protein Essential for Feedback De-Excitation in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>PLoS Biology</i> , 2011, 9, e1000577.	5.6	260
81	Use of a Pulse-Amplitude Modulated Chlorophyll Fluorometer to Study the Efficiency of Photosynthesis in Arabidopsis Plants. <i>Methods in Molecular Biology</i> , 2011, 775, 299-310.	0.9	38
82	Chlorophyll-deficient mutants of <i>Chlamydomonas reinhardtii</i> that accumulate magnesium protoporphyrin IX. <i>Plant Molecular Biology</i> , 2010, 72, 643-658.	3.9	34
83	Phylogenomic analysis of the <i>Chlamydomonas</i> genome unmasks proteins potentially involved in photosynthetic function and regulation. <i>Photosynthesis Research</i> , 2010, 106, 3-17.	2.9	51
84	Trophic status of <i>Chlamydomonas reinhardtii</i> influences the impact of iron deficiency on photosynthesis. <i>Photosynthesis Research</i> , 2010, 105, 39-49.	2.9	80
85	Lutein Can Act as a Switchable Charge Transfer Quencher in the CP26 Light-harvesting Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 2830-2835.	3.4	72
86	Evidence for Base Excision Repair of Oxidative DNA Damage in Chloroplasts of <i>Arabidopsis thaliana</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 17006-17012.	3.4	50
87	Quantitative Genetic Analysis of Thermal Dissipation in Arabidopsis. <i>Plant Physiology</i> , 2009, 150, 977-986.	4.8	62
88	The multiple roles of light-harvesting chlorophyll a/b-protein complexes define structure and optimize function of Arabidopsis chloroplasts: A study using two chlorophyll b-less mutants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 973-984.	1.0	124
89	An ancient light-harvesting protein is critical for the regulation of algal photosynthesis. <i>Nature</i> , 2009, 462, 518-521.	27.8	589
90	Sensing and Responding to Excess Light. <i>Annual Review of Plant Biology</i> , 2009, 60, 239-260.	18.7	890

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91	Copper Delivery by the Copper Chaperone for Chloroplast and Cytosolic Copper/Zinc-Superoxide Dismutases: Regulation and Unexpected Phenotypes in an Arabidopsis Mutant. <i>Molecular Plant</i> , 2009, 2, 1336-1350.	8.3	80
92	Lutein Accumulation in the Absence of Zeaxanthin Restores Nonphotochemical Quenching in the <i>Arabidopsis thaliana</i> npq1 Mutant. <i>Plant Cell</i> , 2009, 21, 1798-1812.	6.6	183
93	Architecture of a Charge-Transfer State Regulating Light Harvesting in a Plant Antenna Protein. <i>Science</i> , 2008, 320, 794-797.	12.6	492
94	Zeaxanthin Radical Cation Formation in Minor Light-harvesting Complexes of Higher Plant Antenna. <i>Journal of Biological Chemistry</i> , 2008, 283, 3550-3558.	3.4	193
95	Acclimation to Singlet Oxygen Stress in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2007, 6, 919-930.	3.4	151
96	Photoprotection mutants of <i>Arabidopsis thaliana</i> acclimate to high light by increasing photosynthesis and specific antioxidants. <i>Plant, Cell and Environment</i> , 2006, 29, 879-887.	5.7	78
97	Singlet oxygen and photo-oxidative stress management in plants and algae. <i>Plant, Cell and Environment</i> , 2005, 28, 1037-1045.	5.7	251
98	Functional Genomics of Eukaryotic Photosynthesis Using Insertional Mutagenesis of <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2005, 137, 545-556.	4.8	186
99	Two P-Type ATPases Are Required for Copper Delivery in <i>Arabidopsis thaliana</i> Chloroplasts. <i>Plant Cell</i> , 2005, 17, 1233-1251.	6.6	316
100	Carotenoid Cation Formation and the Regulation of Photosynthetic Light Harvesting. <i>Science</i> , 2005, 307, 433-436.	12.6	723
101	<i>Chlamydomonas</i> and <i>Arabidopsis</i> . A Dynamic Duo: Figure 1.. <i>Plant Physiology</i> , 2004, 135, 607-610.	4.8	66
102	White Mutants of <i>Chlamydomonas reinhardtii</i> Are Defective in Phytoene Synthase Sequence data from this article have been deposited with the EMBL/GenBank Data Libraries under accession nos. AY604700, PSY (137c) cDNA; AY604701, PSY (137c) genomic DNA; AY604702, PSY (S1D2) genomic DNA; and AY604703, PDS (137c) cDNA.. <i>Genetics</i> , 2004, 168, 1249-1257.	2.9	80
103	Is PsbS the site of non-photochemical quenching in photosynthesis?. <i>Journal of Experimental Botany</i> , 2004, 56, 375-382.	4.8	284
104	Photo-oxidative Stress in a Xanthophyll-deficient Mutant of <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 6337-6344.	3.4	110
105	Ascorbate-Deficient Mutants of <i>Arabidopsis</i> Grow in High Light Despite Chronic Photooxidative Stress. <i>Plant Physiology</i> , 2004, 134, 1163-1172.	4.8	189
106	Regulation of Photosynthetic Light Harvesting Involves Intrathylakoid Lumen pH Sensing by the PsbS Protein. <i>Journal of Biological Chemistry</i> , 2004, 279, 22866-22874.	3.4	483
107	Genomic analysis of mutants affecting xanthophyll biosynthesis and regulation of photosynthetic light harvesting in <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2004, 82, 265-276.	2.9	42
108	Zeaxanthin Accumulation in the Absence of a Functional Xanthophyll Cycle Protects <i>Chlamydomonas reinhardtii</i> from Photooxidative Stress. <i>Plant Cell</i> , 2003, 15, 992-1008.	6.6	230

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109	Zeaxanthin Deficiency Enhances the High Light Sensitivity of an Ascorbate-Deficient Mutant of Arabidopsis. <i>Plant Physiology</i> , 2003, 133, 748-760.	4.8	155
110	Evidence for direct carotenoid involvement in the regulation of photosynthetic light harvesting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 4377-4382.	7.1	199
111	PAA1, a P-Type ATPase of Arabidopsis, Functions in Copper Transport in Chloroplasts. <i>Plant Cell</i> , 2003, 15, 1333-1346.	6.6	301
112	PsbS-dependent enhancement of feedback de-excitation protects photosystem II from photoinhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 15222-15227.	7.1	439
113	Molecular and Global Time-resolved Analysis of a psbS Gene Dosage Effect on pH- and Xanthophyll Cycle-dependent Nonphotochemical Quenching in Photosystem II. <i>Journal of Biological Chemistry</i> , 2002, 277, 33590-33597.	3.4	92
114	Rhesus expression in a green alga is regulated by CO <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7769-7773.	7.1	137
115	Structure - function analysis of photosystem II subunit S (PsbS) in vivo. <i>Functional Plant Biology</i> , 2002, 29, 1131.	2.1	132
116	A Major Light-Harvesting Polypeptide of Photosystem II Functions in Thermal Dissipation[W]. <i>Plant Cell</i> , 2002, 14, 1801-1816.	6.6	193
117	Ascorbate Deficiency Can Limit Violaxanthin De-Epoxidase Activity in Vivo. <i>Plant Physiology</i> , 2002, 128, 970-977.	4.8	220
118	Non-Photochemical Quenching. A Response to Excess Light Energy. <i>Plant Physiology</i> , 2001, 125, 1558-1566.	4.8	2,333
119	Functional genomics of plant photosynthesis in the fast lane using <i>Chlamydomonas reinhardtii</i> . <i>Trends in Plant Science</i> , 2001, 6, 364-371.	8.8	84
120	Photoprotection in a zeaxanthin- and lutein-deficient double mutant of Arabidopsis. <i>Photosynthesis Research</i> , 2001, 67, 139-145.	2.9	194
121	Absence of Lutein, Violaxanthin and Neoxanthin Affects the Functional Chlorophyll Antenna Size of Photosystem-II but not that of Photosystem-I in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 482-491.	3.1	87
122	A pigment-binding protein essential for regulation of photosynthetic light harvesting. <i>Nature</i> , 2000, 403, 391-395.	27.8	1,354
123	Safety valves for photosynthesis. <i>Current Opinion in Plant Biology</i> , 2000, 3, 455-460.	7.1	570
124	Photodamage of the Photosynthetic Apparatus and Its Dependence on the Leaf Developmental Stage in the npq1 Arabidopsis Mutant Deficient in the Xanthophyll Cycle Enzyme Violaxanthin De-epoxidase. <i>Plant Physiology</i> , 2000, 124, 273-284.	4.8	218
125	Molecular genetics of xanthophyllâ€“dependent photoprotection in green algae and plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1385-1394.	4.0	138
126	The violaxanthin cycle protects plants from photooxidative damage by more than one mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 8762-8767.	7.1	624



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127	Title is missing!. Photosynthesis Research, 1999, 61, 97-98.	2.9	0
128	PHOTOPROTECTION REVISITED:Genetic and Molecular Approaches. Annual Review of Plant Biology, 1999, 50, 333-359.	14.3	1,731
129	Altered xanthophyll compositions adversely affect chlorophyll accumulation and nonphotochemical quenching in Arabidopsis mutants. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 13324-13329.	7.1	292
130	Arabidopsis Mutants Define a Central Role for the Xanthophyll Cycle in the Regulation of Photosynthetic Energy Conversion. Plant Cell, 1998, 10, 1121-1134.	6.6	882
131	Arabidopsis Mutants Define a Central Role for the Xanthophyll Cycle in the Regulation of Photosynthetic Energy Conversion. Plant Cell, 1998, 10, 1121.	6.6	67
132	Chlamydomonas Xanthophyll Cycle Mutants Identified by Video Imaging of Chlorophyll Fluorescence Quenching.. Plant Cell, 1997, 9, 1369-1380.	6.6	278
133	Chlamydomonas Xanthophyll Cycle Mutants Identified by Video Imaging of Chlorophyll Fluorescence Quenching. Plant Cell, 1997, 9, 1369.	6.6	127
134	The roles of specific xanthophylls in photoprotection. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14162-14167.	7.1	536
135	Title is missing!. Photosynthesis Research, 1997, 53, 173-184.	2.9	12
136	Suppressors of trp1 Fluorescence Identify a New Arabidopsis Gene, TRP4, Encoding the Anthranilate Synthase b Subunit. Plant Cell, 1993, 5, 1011.	6.6	49
137	Two anthranilate synthase genes in Arabidopsis: defense-related regulation of the tryptophan pathway.. Plant Cell, 1992, 4, 721-733.	6.6	188