

Helmut Kirchhoff

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

3,248
citations

136950

32
h-index

155660

55
g-index

69
all docs

69
docs citations

69
times ranked

2749
citing authors

#	ARTICLE	IF	CITATIONS
1	A glossary of plant cell structures: Current insights and future questions. <i>Plant Cell</i> , 2022, 34, 10-52.	6.6	27
2	Differential response of the photosynthetic machinery to dehydration in older and younger resurrection plants. <i>Journal of Experimental Botany</i> , 2022, 73, 1566-1580.	4.8	2
3	Biorefinery Processing of Waste to Supply Cost-Effective and Sustainable Inputs for Two-Stage Microalgal Cultivation. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1485.	2.5	1
4	Drought Tolerance Strategies and Autophagy in Resilient Wheat Genotypes. <i>Cells</i> , 2022, 11, 1765.	4.1	4
5	The Rice Plastidial Phosphorylase Participates Directly in Both Sink and Source Processes. <i>Plant and Cell Physiology</i> , 2021, 62, 125-142.	3.1	2
6	Reply to: Is the debate over grana stacking formation finally solved?. <i>Nature Plants</i> , 2021, 7, 279-281.	9.3	2
7	Impact of ion fluxes across thylakoid membranes on photosynthetic electron transport and photoprotection. <i>Nature Plants</i> , 2021, 7, 979-988.	9.3	39
8	Proteoliposomes for Studying Lipid-protein Interactions in Membranes in vitro. <i>Bio-protocol</i> , 2021, 11, e4197.	0.4	1
9	Measuring the dynamic response of the thylakoid architecture in plant leaves by electron microscopy. <i>Plant Direct</i> , 2020, 4, e00280.	1.9	26
10	Plastocyanin is the long-range electron carrier between photosystem II and photosystem I in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15354-15362.	7.1	57
11	A proteoliposome-based system reveals how lipids control photosynthetic light harvesting. <i>Journal of Biological Chemistry</i> , 2020, 295, 1857-1866.	3.4	29
12	PsbS α -dependent and α -independent mechanisms regulate carotenoid β -chlorophyll energy coupling in grana thylakoids. <i>FEBS Letters</i> , 2019, 593, 3190-3197.	2.8	4
13	Exploiting mixotrophy for improving productivities of biomass and co-products of microalgae. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 450-460.	16.4	96
14	Quinone Diffusion in Photosynthetic Membranes: Challenges Caused by Complex Membrane Architectures. <i>Biophysical Journal</i> , 2019, 116, 2a.	0.5	0
15	Regulation and stimulation of photosynthesis of mixotrophically cultured <i>Haematococcus pluvialis</i> by ribose. <i>Algal Research</i> , 2019, 39, 101443.	4.6	21
16	Chloroplast ultrastructure in plants. <i>New Phytologist</i> , 2019, 223, 565-574.	7.3	137
17	Fluctuating light experiments and semi-automated plant phenotyping enabled by self-built growth racks and simple upgrades to the IMAGING-PAM. <i>Plant Methods</i> , 2019, 15, 156.	4.3	13
18	The structural and functional domains of plant thylakoid membranes. <i>Plant Journal</i> , 2019, 97, 412-429.	5.7	66

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19	Chloroplast breakdown during dehydration of a homoiochlorophyllous resurrection plant proceeds via senescence-like processes. <i>Environmental and Experimental Botany</i> , 2019, 157, 100-111.	4.2	24
20	Reduced Arogenate Dehydratase Expression: Ramifications for Photosynthesis and Metabolism. <i>Plant Physiology</i> , 2018, 177, 115-131.	4.8	18
21	Structure-function relationships in photosynthetic membranes: Challenges and emerging fields. <i>Plant Science</i> , 2018, 266, 76-82.	3.6	30
22	Evaluation of Lipids for the Study of Photosynthetic Membranes. <i>Methods in Molecular Biology</i> , 2018, 1770, 305-316.	0.9	3
23	Surface charge dynamics in photosynthetic membranes and the structural consequences. <i>Nature Plants</i> , 2017, 3, 17020.	9.3	68
24	Functional photosystem I maintains proper energy balance during nitrogen depletion in <i>Chlamydomonas reinhardtii</i> , promoting triacylglycerol accumulation. <i>Biotechnology for Biofuels</i> , 2017, 10, 89.	6.2	19
25	Sublocalization of Cytochrome b6f Complexes in Photosynthetic Membranes. <i>Trends in Plant Science</i> , 2017, 22, 574-582.	8.8	26
26	Thylakoid Membrane Dynamics in Higher Plants. , 2017, , 221-242.		0
27	Protection of the photosynthetic apparatus against dehydration stress in the resurrection plant <i>Cratogeomachna pumilum</i> . <i>Plant Journal</i> , 2016, 87, 664-680.	5.7	37
28	Assessment of photosynthesis regulation in mixotrophically cultured microalga <i>Chlorella sorokiniana</i> . <i>Algal Research</i> , 2016, 19, 30-38.	4.6	44
29	Photoprotection Conferred by Changes in Photosynthetic Protein Levels and Organization during Dehydration of a Homoiochlorophyllous Resurrection Plant. <i>Plant Physiology</i> , 2015, 167, 1554-1565.	4.8	53
30	Functional Implications of Photosystem II Crystal Formation in Photosynthetic Membranes. <i>Journal of Biological Chemistry</i> , 2015, 290, 14091-14106.	3.4	45
31	Isolation, characterization, and validation of oleaginous, multi-trophic, and haloalkaline-tolerant microalgae for two-stage cultivation. <i>Algal Research</i> , 2014, 4, 2-11.	4.6	33
32	Structural changes of the thylakoid membrane network induced by high light stress in plant chloroplasts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130225.	4.0	96
33	Diffusion of molecules and macromolecules in thylakoid membranes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 495-502.	1.0	117
34	Compartmentalization of the protein repair machinery in photosynthetic membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15839-15844.	7.1	74
35	Significance of the Photosystem II Core Phosphatase PBCP for Plant Viability and Protein Repair in Thylakoid Membranes. <i>Plant and Cell Physiology</i> , 2014, 55, 1245-1254.	3.1	40
36	Architectural switches in plant thylakoid membranes. <i>Photosynthesis Research</i> , 2013, 116, 481-487.	2.9	85

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37	Structural constraints for protein repair in plant photosynthetic membranes. <i>Plant Signaling and Behavior</i> , 2013, 8, e23634.	2.4	21
38	Carotenoid- α -Chlorophyll Coupling and Fluorescence Quenching Correlate with Protein Packing Density in Grana-Thylakoids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11022-11030.	2.6	9
39	A phosphorylation map of the photosystem II supercomplex C2S2M2. <i>Frontiers in Plant Science</i> , 2013, 4, 459.	3.6	14
40	Differential Mobility of Pigment-Protein Complexes in Granal and Agranal Thylakoid Membranes of C3 and C4 Plants \hat{A} . <i>Plant Physiology</i> , 2012, 161, 497-507.	4.8	47
41	Architectural switch in plant photosynthetic membranes induced by light stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 20130-20135.	7.1	146
42	Dynamic control of protein diffusion within the granal thylakoid lumen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20248-20253.	7.1	206
43	Visualizing the mobility and distribution of chlorophyll proteins in higher plant thylakoid membranes: effects of photoinhibition and protein phosphorylation. <i>Plant Journal</i> , 2010, 62, 948.	5.7	52
44	Efficient Light Harvesting by Photosystem II Requires an Optimized Protein Packing Density in Grana Thylakoids. <i>Journal of Biological Chemistry</i> , 2010, 285, 17020-17028.	3.4	84
45	Visualising the mobility and distribution of chlorophyll-proteins in higher plant thylakoid membranes: effects of photoinhibition and protein phosphorylation. <i>Plant Journal</i> , 2010, 62, 948-59.	5.7	92
46	Role of Lipids in the Dynamics of Thylakoid Membranes. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 283-294.	1.0	9
47	Significance of molecular crowding in grana membranes of higher plants for light harvesting by photosystem II. <i>Photosynthesis Research</i> , 2008, 95, 129-134.	2.9	23
48	Probing the Organization of Photosystem II in Photosynthetic Membranes by Atomic Force Microscopy. <i>Biochemistry</i> , 2008, 47, 431-440.	2.5	71
49	Molecular crowding and order in photosynthetic membranes. <i>Trends in Plant Science</i> , 2008, 13, 201-207.	8.8	106
50	Protein Diffusion and Macromolecular Crowding in Thylakoid Membranes \hat{A} . <i>Plant Physiology</i> , 2008, 146, 1571-1578.	4.8	122
51	Significance of protein crowding, order and mobility for photosynthetic membrane functions. <i>Biochemical Society Transactions</i> , 2008, 36, 967-970.	3.4	29
52	Investigating The Organization Of Photosystem II In Spinach Photosynthetic Membranes By Atomic Force Microscopy. , 2008, , 779-782.		0
53	Ssr2998 of <i>Synechocystis</i> sp. PCC 6803 Is Involved in Regulation of Cyanobacterial Electron Transport and Associated with the Cytochrome b6f Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 3730-3737.	3.4	29
54	Structural and functional self-organization of Photosystem II in grana thylakoids. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2007, 1767, 1180-1188.	1.0	37

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55	Low-Light-Induced Formation of Semicrystalline Photosystem II Arrays in Higher Plant Chloroplasts. <i>Biochemistry</i> , 2007, 46, 11169-11176.	2.5	77
56	Comparative quantitative proteomics to investigate the remodeling of bioenergetic pathways under iron deficiency in <i>Chlamydomonas reinhardtii</i> . <i>Proteomics</i> , 2007, 7, 3964-3979.	2.2	168
57	Using Fluorescence Recovery After Photobleaching to Measure Lipid Diffusion in Membranes. <i>Methods in Molecular Biology</i> , 2007, 400, 267-275.	0.9	11
58	The Role of Plastocyanin in the Adjustment of the Photosynthetic Electron Transport to the Carbon Metabolism in Tobacco. <i>Plant Physiology</i> , 2004, 136, 4265-4274.	4.8	116
59	Plastocyanin redox kinetics in spinach chloroplasts: evidence for disequilibrium in the high potential chain. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1659, 63-72.	1.0	72
60	Transversal and Lateral Exciton Energy Transfer in Grana Thylakoids of Spinach. <i>Biochemistry</i> , 2004, 43, 14508-14516.	2.5	48
61	Supramolecular Photosystem II Organization in Grana Thylakoid Membranes: Evidence for a Structured Arrangement. <i>Biochemistry</i> , 2004, 43, 9204-9213.	2.5	86
62	Aggregation and fluorescence quenching of chlorophyll a of the light-harvesting complex II from spinach in vitro. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2003, 1606, 105-116.	1.0	66
63	Metabolic control of photosynthetic electron transport in crassulacean acid metabolism-induced <i>Mesembryanthemum crystallinum</i> . <i>Functional Plant Biology</i> , 2002, 29, 697.	2.1	12
64	Control of the photosynthetic electron transport by PQ diffusion microdomains in thylakoids of higher plants. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1459, 148-168.	1.0	152