

Mark Aurel Schäffler

List of Publications by Year in descending order

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51
papers

2,952
citations

186265

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h-index

182427

51
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55
all docs

55
docs citations

55
times ranked

3279
citing authors

#	ARTICLE	IF	CITATIONS
1	Rpl33, a Nonessential Plastid-Encoded Ribosomal Protein in Tobacco, Is Required under Cold Stress Conditions. <i>Plant Cell</i> , 2008, 20, 2221-2237.	6.6	184
2	ATP Synthase Repression in Tobacco Restricts Photosynthetic Electron Transport, CO ₂ Assimilation, and Plant Growth by Overacidification of the Thylakoid Lumen. <i>Plant Cell</i> , 2011, 23, 304-321.	6.6	184
3	Peroxiredoxin Q of <i>Arabidopsis thaliana</i> is attached to the thylakoids and functions in context of photosynthesis. <i>Plant Journal</i> , 2006, 45, 968-981.	5.7	165
4	Photosynthetic complex stoichiometry dynamics in higher plants: environmental acclimation and photosynthetic flux control. <i>Frontiers in Plant Science</i> , 2014, 5, 188.	3.6	141
5	Nonessential Plastid-Encoded Ribosomal Proteins in Tobacco: A Developmental Role for Plastid Translation and Implications for Reductive Genome Evolution. <i>Plant Cell</i> , 2011, 23, 3137-3155.	6.6	130
6	Monogalactosyldiacylglycerol Deficiency in <i>Arabidopsis</i> Affects Pigment Composition in the Prolamellar Body and Impairs Thylakoid Membrane Energization and Photoprotection in Leaves. <i>Plant Physiology</i> , 2008, 148, 580-592.	4.8	118
7	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
8	The plastid-specific ribosomal proteins of <i>Arabidopsis thaliana</i> can be divided into nonessential proteins and genuine ribosomal proteins. <i>Plant Journal</i> , 2012, 69, 302-316.	5.7	114
9	Control of retrograde signalling by protein import and cytosolic folding stress. <i>Nature Plants</i> , 2019, 5, 525-538.	9.3	109
10	Limitations to photosynthesis by proton motive force-induced photosystem II photodamage. <i>eLife</i> , 2016, 5, .	6.0	101
11	Deficiency in Phylloquinone (Vitamin K1) Methylation Affects Prenyl Quinone Distribution, Photosystem I Abundance, and Anthocyanin Accumulation in the <i>Arabidopsis</i> AtmenG Mutant. <i>Journal of Biological Chemistry</i> , 2006, 281, 40461-40472.	3.4	97
12	Photosystem II Supercomplex Remodeling Serves as an Entry Mechanism for State Transitions in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2011, 23, 2964-2977.	6.6	88
13	Photosynthetic complex stoichiometry dynamics in higher plants: biogenesis, function, and turnover of ATP synthase and the cytochrome b ₆ f complex. <i>Journal of Experimental Botany</i> , 2015, 66, 2373-2400.	4.8	87
14	Photosystem I: Its biogenesis and function in higher plants. <i>Journal of Plant Physiology</i> , 2011, 168, 1452-1461.	3.5	82
15	The Plastid Genome-Encoded Ycf4 Protein Functions as a Nonessential Assembly Factor for Photosystem I in Higher Plants. <i>Plant Physiology</i> , 2012, 159, 579-591.	4.8	79
16	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
17	Y3IP1, a Nucleus-Encoded Thylakoid Protein, Cooperates with the Plastid-Encoded Ycf3 Protein in Photosystem I Assembly of Tobacco and <i>Arabidopsis</i> . <i>Plant Cell</i> , 2010, 22, 2838-2855.	6.6	72
18	Knock-out of the Plastid-encoded PetL Subunit Results in Reduced Stability and Accelerated Leaf Age-dependent Loss of the Cytochrome b ₆ f Complex. <i>Journal of Biological Chemistry</i> , 2007, 282, 976-985.	3.4	66

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19	RAPTOR Controls Developmental Growth Transitions by Altering the Hormonal and Metabolic Balance. <i>Plant Physiology</i> , 2018, 177, 565-593.	4.8	66
20	The pentatricopeptide repeat- <i>SMR</i> protein ATP4 promotes translation of the chloroplast <i>atpB</i> mRNA. <i>Plant Journal</i> , 2012, 72, 547-558.	5.7	63
21	The plastome-encoded PsaJ subunit is required for efficient Photosystem I excitation, but not for plastocyanin oxidation in tobacco. <i>Biochemical Journal</i> , 2007, 403, 251-260.	3.7	57
22	Highly Resolved Systems Biology to Dissect the Etioplast-to-Chloroplast Transition in Tobacco Leaves. <i>Plant Physiology</i> , 2019, 180, 654-681.	4.8	51
23	LCAA, a Novel Factor Required for Magnesium Protoporphyrin Monomethylester Cyclase Accumulation and Feedback Control of Aminolevulinic Acid Biosynthesis in Tobacco. <i>Plant Physiology</i> , 2012, 160, 1923-1939.	4.8	50
24	Defects in leaf carbohydrate metabolism compromise acclimation to high light and lead to a high chlorophyll fluorescence phenotype in <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2012, 12, 8.	3.6	43
25	Inducible Repression of Nuclear-Encoded Subunits of the Cytochrome b6f Complex in Tobacco Reveals an Extraordinarily Long Lifetime of the Complex. <i>Plant Physiology</i> , 2014, 165, 1632-1646.	4.8	41
26	Chloroplast competition is controlled by lipid biosynthesis in evening primroses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5665-5674.	7.1	39
27	Expression of a carotenogenic gene allows faster biomass production by redesigning plant architecture and improving photosynthetic efficiency in tobacco. <i>Plant Journal</i> , 2020, 103, 1967-1984.	5.7	39
28	Limited Responsiveness of Chloroplast Gene Expression during Acclimation to High Light in Tobacco. <i>Plant Physiology</i> , 2020, 182, 424-435.	4.8	36
29	Reverse genetics in complex multigene operons by co-transformation of the plastid genome and its application to the open reading frame previously designated <i>psbN</i> . <i>Plant Journal</i> , 2013, 75, 1062-1074.	5.7	33
30	Elimination of a group II intron from a plastid gene causes a mutant phenotype. <i>Nucleic Acids Research</i> , 2011, 39, 5181-5192.	14.5	32
31	H ⁺ Transport by K ⁺ EXCHANGE ANTIporter3 Promotes Photosynthesis and Growth in Chloroplast ATP Synthase Mutants. <i>Plant Physiology</i> , 2020, 182, 2126-2142.	4.8	32
32	Generation and characterization of a collection of knock-down lines for the chloroplast Clp protease complex in tobacco. <i>Journal of Experimental Botany</i> , 2017, 68, 2199-2218.	4.8	31
33	The plastid-encoded PsaI subunit stabilizes photosystem I during leaf senescence in tobacco. <i>Journal of Experimental Botany</i> , 2017, 68, 1137-1155.	4.8	31
34	Heterologous expression of <i>AtPAP2</i> in transgenic potato influences carbon metabolism and tuber development. <i>FEBS Letters</i> , 2014, 588, 3726-3731.	2.8	29
35	The Thylakoid Membrane Protein CGL160 Supports CF1CF0 ATP Synthase Accumulation in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2015, 10, e0121658.	2.5	29
36	The Combined Loss of Triose Phosphate and Xylulose 5-Phosphate/Phosphate Translocators Leads to Severe Growth Retardation and Impaired Photosynthesis in <i>Arabidopsis thaliana</i> tpt/xpt Double Mutants. <i>Frontiers in Plant Science</i> , 2018, 9, 1331.	3.6	27

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37	Chloroplast translational regulation uncovers nonessential photosynthesis genes as key players in plant cold acclimation. <i>Plant Cell</i> , 2022, 34, 2056-2079.	6.6	25
38	Targeted introduction of heritable point mutations into the plant mitochondrial genome. <i>Nature Plants</i> , 2022, 8, 245-256.	9.3	25
39	Chlorosis caused by two recessively interacting genes reveals a role of <i>scp</i> RNA helicase in hybrid breakdown in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2017, 91, 251-262.	5.7	24
40	The paramutated SULFUREA locus of tomato is involved in auxin biosynthesis. <i>Journal of Experimental Botany</i> , 2008, 59, 3635-3647.	4.8	23
41	Identification and characterization of a stable intermediate in photosystem I assembly in tobacco. <i>Plant Journal</i> , 2017, 90, 478-490.	5.7	21
42	A photosynthesis operon in the chloroplast genome drives speciation in evening primroses. <i>Plant Cell</i> , 2021, 33, 2583-2601.	6.6	21
43	Stromal NADH supplied by PHOSPHOGLYCERATE DEHYDROGENASE3 is crucial for photosynthetic performance. <i>Plant Physiology</i> , 2021, 186, 142-167.	4.8	16
44	Establishment of a Heterologous RNA Editing Event in Chloroplasts. <i>Plant Physiology</i> , 2019, 181, 891-900.	4.8	13
45	Functional characterization of proton antiport regulation in the thylakoid membrane. <i>Plant Physiology</i> , 2021, 187, 2209-2229.	4.8	11
46	<i>AtRsgA</i> from <i>Arabidopsis thaliana</i> is important for maturation of the small subunit of the chloroplast ribosome. <i>Plant Journal</i> , 2018, 96, 404-420.	5.7	9
47	Performance of <i>Arabidopsis thaliana</i> under different light qualities: comparison of light-emitting diodes to fluorescent lamp. <i>Functional Plant Biology</i> , 2017, 44, 727.	2.1	6
48	Correction of frameshift mutations in the <i>atpB</i> gene by translational recoding in chloroplasts of <i>Oenothera</i> and tobacco. <i>Plant Cell</i> , 2021, 33, 1682-1705.	6.6	6
49	The availability of neither D2 nor CP43 limits the biogenesis of photosystem II in tobacco. <i>Plant Physiology</i> , 2021, 185, 1111-1130.	4.8	6
50	Sulfite Reductase Co-suppression in Tobacco Reveals Detoxification Mechanisms and Downstream Responses Comparable to Sulfate Starvation. <i>Frontiers in Plant Science</i> , 2018, 9, 1423.	3.6	5
51	Extranuclear Inheritance: Plastid Nuclear Cooperation in Photosystem I Assembly in Photosynthetic Eukaryotes. <i>Progress in Botany Fortschritte Der Botanik</i> , 2008, , 89-115.	0.3	5