

# Michael Schroda

## List of Publications by Year in descending order

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90  
papers

8,540  
citations

66343

42  
h-index

49909

87  
g-index

104  
all docs

104  
docs citations

104  
times ranked

8516  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Multiple knockout mutants reveal a high redundancy of phytotoxic compounds contributing to necrotrophic pathogenesis of <i>Botrytis cinerea</i> . <i>PLoS Pathogens</i> , 2022, 18, e1010367.	4.7	45
3	A longer isoform of Stim1 is a negative SOCE regulator but increases cAMP-modulated NFAT signaling. <i>EMBO Reports</i> , 2022, 23, e53135.	4.5	13
4	New destination vectors facilitate Modular Cloning for <i>Chlamydomonas</i> . <i>Current Genetics</i> , 2022, , 1.	1.7	6
5	Systems-wide analysis revealed shared and unique responses to moderate and acute high temperatures in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Communications Biology</i> , 2022, 5, 460.	4.4	16
6	Parkinson mice show functional and molecular changes in the gut long before motoric disease onset. <i>Molecular Neurodegeneration</i> , 2021, 16, 34.	10.8	29
7	Real-time monitoring of subcellular H <sub>2</sub> O <sub>2</sub> distribution in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2021, 33, 2935-2949.	6.6	50
8	Structural basis for VIPP1 oligomerization and maintenance of thylakoid membrane integrity. <i>Cell</i> , 2021, 184, 3643-3659.e23.	28.9	76
9	<i>In Vivo</i> Structure-Function Analysis and Redox Interactomes of <i>Leishmania tarentolae</i> Erv. <i>Microbiology Spectrum</i> , 2021, 9, e0080921.	3.0	4
10	Acclimation in plants – the Green Hub consortium. <i>Plant Journal</i> , 2021, 106, 23-40.	5.7	44
11	The cryo-EM structure of the chloroplast ClpP complex. <i>Nature Plants</i> , 2021, 7, 1505-1515.	9.3	5
12	The NADH Dehydrogenase Nde1 Executes Cell Death after Integrating Signals from Metabolism and Proteostasis on the Mitochondrial Surface. <i>Molecular Cell</i> , 2020, 77, 189-202.e6.	9.7	39
13	Vernalization Alters Sink and Source Identities and Reverses Phloem Translocation from Taproots to Shoots in Sugar Beet. <i>Plant Cell</i> , 2020, 32, 3206-3223.	6.6	30
14	An epigenetic gene silencing pathway selectively acting on transgenic DNA in the green alga <i>Chlamydomonas</i> . <i>Nature Communications</i> , 2020, 11, 6269.	12.8	58
15	Phosphoinositides regulate chloroplast processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9154-9156.	7.1	4
16	Overexpression of Sedoheptulose-1,7-Bisphosphatase Enhances Photosynthesis in <i>Chlamydomonas reinhardtii</i> and Has No Effect on the Abundance of Other Calvin-Benson Cycle Enzymes. <i>Frontiers in Plant Science</i> , 2020, 11, 868.	3.6	41
17	VIPP2 interacts with VIPP1 and HSP22E/F at chloroplast membranes and modulates a retrograde signal for <i>HSP22E/F</i> gene expression. <i>Plant, Cell and Environment</i> , 2020, 43, 1212-1229.	5.7	25
18	Identification of Chloroplast Envelope Proteins with Critical Importance for Cold Acclimation. <i>Plant Physiology</i> , 2020, 182, 1239-1255.	4.8	33

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19	VIPP1 rods engulf membranes containing phosphatidylinositol phosphates. <i>Scientific Reports</i> , 2019, 9, 8725.	3.3	35
20	Metabolic Engineering of <i>Corynebacterium glutamicum</i> for High-Level Ectoine Production: Design, Combinatorial Assembly, and Implementation of a Transcriptionally Balanced Heterologous Ectoine Pathway. <i>Biotechnology Journal</i> , 2019, 14, e1800417.	3.5	61
21	Hetero-oligomeric CPN60 resembles highly symmetric group-1 chaperonin structure revealed by Cryo-EM. <i>Plant Journal</i> , 2019, 98, 798-812.	5.7	15
22	The <i>Chlamydomonas deg1c</i> Mutant Accumulates Proteins Involved in High Light Acclimation. <i>Plant Physiology</i> , 2019, 181, 1480-1497.	4.8	24
23	Good News for Nuclear Transgene Expression in <i>Chlamydomonas</i> . <i>Cells</i> , 2019, 8, 1534.	4.1	69
24	The Role of Plastidic Trigger Factor Serving Protein Biogenesis in Green Algae and Land Plants. <i>Plant Physiology</i> , 2019, 179, 1093-1110.	4.8	22
25	Artificial Intelligence Understands Peptide Observability and Assists With Absolute Protein Quantification. <i>Frontiers in Plant Science</i> , 2018, 9, 1559.	3.6	31
26	Absolute Quantification of Major Photosynthetic Protein Complexes in <i>Chlamydomonas reinhardtii</i> Using Quantification Concatamers (QconCATs). <i>Frontiers in Plant Science</i> , 2018, 9, 1265.	3.6	52
27	Birth of a Photosynthetic Chassis: A MoClo Toolkit Enabling Synthetic Biology in the Microalga <i>Chlamydomonas reinhardtii</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2074-2086.	3.8	225
28	Investigations on <i>VELVET</i> regulatory mutants confirm the role of host tissue acidification and secretion of proteins in the pathogenesis of <i>Botrytis cinerea</i> . <i>New Phytologist</i> , 2018, 219, 1062-1074.	7.3	76
29	Effects of microcompartmentation on flux distribution and metabolic pools in <i>Chlamydomonas reinhardtii</i> chloroplasts. <i>ELife</i> , 2018, 7, .	6.0	37
30	Substrates of the chloroplast small heat shock proteins 22E/F point to thermolability as a regulative switch for heat acclimation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Molecular Biology</i> , 2017, 95, 579-591.	3.9	26
31	Not changes in membrane fluidity but proteotoxic stress triggers heat shock protein expression in <i>Chlamydomonas reinhardtii</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 2987-3001.	5.7	33
32	A repeat protein links Rubisco to form the eukaryotic carbon-concentrating organelle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5958-5963.	7.1	196
33	Proteomic profiling of the mitochondrial ribosome identifies Atp25 as a composite mitochondrial precursor protein. <i>Molecular Biology of the Cell</i> , 2016, 27, 3031-3039.	2.1	25
34	Revisiting the photosystem II repair cycle. <i>Plant Signaling and Behavior</i> , 2016, 11, e1218587.	2.4	138
35	A disulfide bond in the TIM23 complex is crucial for voltage gating and mitochondrial protein import. <i>Journal of Cell Biology</i> , 2016, 214, 417-431.	5.2	48
36	PETO Interacts with Other Effectors of Cyclic Electron Flow in <i>Chlamydomonas</i> . <i>Molecular Plant</i> , 2016, 9, 558-568.	8.3	34

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37	GUN1 Controls Accumulation of the Plastid Ribosomal Protein S1 at the Protein Level and Interacts with Proteins Involved in Plastid Protein Homeostasis. <i>Plant Physiology</i> , 2016, 170, 1817-1830.	4.8	100
38	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
39	The <i>Chlamydomonas</i> heat stress response. <i>Plant Journal</i> , 2015, 82, 466-480.	5.7	110
40	Dissecting the contributions of GC content and codon usage to gene expression in the model alga <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2015, 84, 704-717.	5.7	113
41	ATP-dependent molecular chaperones in plastids are more complex than expected. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 872-888.	1.0	63
42	Redox-regulated dynamic interplay between Cox19 and the copper-binding protein Cox11 in the intermembrane space of mitochondria facilitates biogenesis of cytochrome c oxidase. <i>Molecular Biology of the Cell</i> , 2015, 26, 2385-2401.	2.1	56
43	Identification of the transporter responsible for sucrose accumulation in sugar beet taproots. <i>Nature Plants</i> , 2015, 1, 14001.	9.3	141
44	In vitro characterization of bacterial and chloroplast Hsp70 systems reveals an evolutionary optimization of the co-chaperones for their Hsp70 partner. <i>Biochemical Journal</i> , 2014, 460, 13-24.	3.7	18
45	Systems-Wide Analysis of Acclimation Responses to Long-Term Heat Stress and Recovery in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 4270-4297.	6.6	107
46	Mercator: a fast and simple web server for genome scale functional annotation of plant sequence data. <i>Plant, Cell and Environment</i> , 2014, 37, 1250-1258.	5.7	575
47	Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 2310-2350.	6.6	123
48	Conditional Depletion of the <i>Chlamydomonas</i> Chloroplast ClpP Protease Activates Nuclear Genes Involved in Autophagy and Plastid Protein Quality Control. <i>Plant Cell</i> , 2014, 26, 2201-2222.	6.6	122
49	Nitrogen-Sparing Mechanisms in <i>Chlamydomonas</i> Affect the Transcriptome, the Proteome, and Photosynthetic Metabolism. <i>Plant Cell</i> , 2014, 26, 1410-1435.	6.6	314
50	Identification and Validation of Protein-Protein Interactions by Combining Co-immunoprecipitation, Antigen Competition, and Stable Isotope Labeling. <i>Methods in Molecular Biology</i> , 2014, 1188, 245-261.	0.9	10
51	Rationales and Approaches for Studying Metabolism in Eukaryotic Microalgae. <i>Metabolites</i> , 2014, 4, 184-217.	2.9	18
52	Molecular Chaperone Functions in Plastids. , 2014, , 325-357.		0
53	Heat shock factor 1 counteracts epigenetic silencing of nuclear transgenes in <i>Chlamydomonas reinhardtii</i> . <i>Nucleic Acids Research</i> , 2013, 41, 5273-5289.	14.5	51
54	Dissecting the Heat Stress Response in <i>Chlamydomonas</i> by Pharmaceutical and RNAi Approaches Reveals Conserved and Novel Aspects. <i>Molecular Plant</i> , 2013, 6, 1795-1813.	8.3	39

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55	A role of VIPP1 as a dynamic structure within thylakoid centers as sites of photosystem biogenesis?. <i>Plant Signaling and Behavior</i> , 2013, 8, e27037.	2.4	34
56	A Protocol for the Identification of Protein-protein Interactions Based on <sup>15</sup> N Metabolic Labeling, Immunoprecipitation, Quantitative Mass Spectrometry and Affinity Modulation. <i>Journal of Visualized Experiments</i> , 2012, , .	0.3	3
57	Evidence for a Role of VIPP1 in the Structural Organization of the Photosynthetic Apparatus in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2012, 24, 637-659.	6.6	104
58	Protocol: methodology for chromatin immunoprecipitation (ChIP) in <i>Chlamydomonas reinhardtii</i> . <i>Plant Methods</i> , 2011, 7, 35.	4.3	21
59	Quantitative Shotgun Proteomics Using a Uniform <sup>15</sup> N-Labeled Standard to Monitor Proteome Dynamics in Time Course Experiments Reveals New Insights into the Heat Stress Response of <i>Chlamydomonas reinhardtii</i> . <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.004739.	3.8	83
60	Transcription Factor-Dependent Chromatin Remodeling at Heat Shock and Copper-Responsive Promoters in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2011, 23, 2285-2301.	6.6	64
61	Chloroplast DnaJ-like proteins 3 and 4 (CDJ3/4) from <i>Chlamydomonas reinhardtii</i> contain redox-active Fe-S clusters and interact with stromal HSP70B. <i>Biochemical Journal</i> , 2010, 427, 205-215.	3.7	30
62	An inducible artificial microRNA system for <i>Chlamydomonas reinhardtii</i> confirms a key role for heat shock factor 1 in regulating thermotolerance. <i>Current Genetics</i> , 2010, 56, 383-389.	1.7	69
63	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
64	New Insights into the Roles of Molecular Chaperones in <i>Chlamydomonas</i> and <i>Volvox</i> . <i>International Review of Cell and Molecular Biology</i> , 2010, 285, 75-113.	3.2	21
65	Chaperones and Proteases. , 2009, , 671-729.		19
66	A "foldosome"™ in the chloroplast?. <i>Plant Signaling and Behavior</i> , 2009, 4, 301-303.	2.4	19
67	Application of quantitative immunoprecipitation combined with knockdown and cross-linking to <i>Chlamydomonas</i> reveals the presence of vesicle-inducing protein in plastids 1 in a common complex with chloroplast HSP90C. <i>Proteomics</i> , 2009, 9, 3079-3089.	2.2	50
68	Assistance for a Chaperone. <i>Journal of Biological Chemistry</i> , 2008, 283, 16363-16373.	3.4	27
69	In Vivo Targets of S-Thiolation in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 21571-21578.	3.4	102
70	A New Assay for Promoter Analysis in <i>Chlamydomonas</i> Reveals Roles for Heat Shock Elements and the TATA Box in HSP70A Promoter-Mediated Activation of Transgene Expression. <i>Eukaryotic Cell</i> , 2008, 7, 172-176.	3.4	50
71	The Chloroplast DnaJ Homolog CDJ1 of <i>Chlamydomonas reinhardtii</i> Is Part of a Multichaperone Complex Containing HSP70B, CGE1, and HSP90C. <i>Plant Physiology</i> , 2008, 148, 2070-2082.	4.8	56
72	The NH2-terminal Domain of the Chloroplast GrpE Homolog CGE1 Is Required for Dimerization and Cochaperone Function in Vivo. <i>Journal of Biological Chemistry</i> , 2007, 282, 11317-11328.	3.4	36

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73	The chloroplast HSP70B-CDJ2-CGE1 chaperones catalyse assembly and disassembly of VIPP1 oligomers in <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2007, 50, 265-277.	5.7	116
74	A reporter system for the individual detection of hydrogen peroxide and singlet oxygen: its use for the assay of reactive oxygen species produced in vivo. <i>Plant Journal</i> , 2007, 50, 475-487.	5.7	65
75	Heat shock factor 1 is a key regulator of the stress response in <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2007, 52, 286-295.	5.7	72
76	The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.	12.6	2,354
77	RNA silencing in <i>Chlamydomonas</i> : mechanisms and tools. <i>Current Genetics</i> , 2006, 49, 69-84.	1.7	126
78	Identification of a plastid response element that acts as an enhancer within the <i>Chlamydomonas</i> HSP70A promoter. <i>Nucleic Acids Research</i> , 2006, 34, 4767-4779.	14.5	73
79	Analysis of Chromatin Structure in the Control Regions of the <i>Chlamydomonas</i> HSP70A and RBCS2 Genes. <i>Plant Molecular Biology</i> , 2005, 59, 501-513.	3.9	27
80	HEAT SHOCK PROTEIN 90C Is a Bona Fide Hsp90 That Interacts with Plastidic HSP70B in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2005, 138, 2310-2322.	4.8	68
81	J-Domain Protein CDJ2 and HSP70B Are a Plastidic Chaperone Pair That Interacts with Vesicle-Inducing Protein in Plastids 1. <i>Molecular Biology of the Cell</i> , 2005, 16, 1165-1177.	2.1	115
82	The <i>Chlamydomonas</i> genome reveals its secrets: chaperone genes and the potential roles of their gene products in the chloroplast. <i>Photosynthesis Research</i> , 2004, 82, 221-240.	2.9	128
83	Cloning of nodule-specific cDNAs of <i>Galega orientalis</i> . <i>Physiologia Plantarum</i> , 2002, 114, 588-593.	5.2	23
84	Sequence elements within an HSP70 promoter counteract transcriptional transgene silencing in <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2002, 31, 445-455.	5.7	112
85	The Chloroplastic GrpE Homolog of <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2001, 13, 2823-2839.	6.6	98
86	The Chloroplastic GrpE Homolog of <i>Chlamydomonas</i> : Two Isoforms Generated by Differential Splicing. <i>Plant Cell</i> , 2001, 13, 2823.	6.6	0
87	The HSP70A promoter as a tool for the improved expression of transgenes in <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2000, 21, 121-131.	5.7	298
88	A Chloroplast-Targeted Heat Shock Protein 70 (HSP70) Contributes to the Photoprotection and Repair of Photosystem II during and after Photoinhibition. <i>Plant Cell</i> , 1999, 11, 1165-1178.	6.6	282
89	Light-inducible gene HSP70B encodes a chloroplast-localized heat shock protein in <i>Chlamydomonas reinhardtii</i> . <i>Plant Molecular Biology</i> , 1996, 31, 1185-1194.	3.9	63
90	Molecular Advancements Establishing <i>Chlamydomonas</i> as a Host for Biotechnological Exploitation. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	10