

Christoph Benning

List of Publications by Year in descending order

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Version: 2024-02-01

191
papers

19,199
citations

8755

75
h-index

12272

133
g-index

223
all docs

223
docs citations

223
times ranked

12626
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Chlamydomonas CHT7 is involved in repressing DNA replication and mitotic genes during synchronous growth. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, . | 1.8 | 3 |
| 2 | Genetically determined variations in photosynthesis indicate roles for specific fatty acid species in chilling responses. <i>Plant, Cell and Environment</i> , 2022, 45, 1682-1697. | 5.7 | 2 |
| 3 | The Role of Chloroplast Membrane Lipid Metabolism in Plant Environmental Responses. <i>Cells</i> , 2021, 10, 706. | 4.1 | 30 |
| 4 | Proteins associated with the <i>Arabidopsis thaliana</i> plastid rhomboid-like protein RBL10. <i>Plant Journal</i> , 2021, 108, 1332-1345. | 5.7 | 6 |
| 5 | Connecting research and teaching introductory cell and molecular biology using an <i>Arabidopsis</i> mutant screen. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 926-934. | 1.2 | 0 |
| 6 | Multiple GmWRI1s are redundantly involved in seed filling and nodulation by regulating plastidic glycolysis, lipid biosynthesis and hormone signalling in soybean (<i>Glycine max</i>). <i>Plant Biotechnology Journal</i> , 2020, 18, 155-171. | 8.3 | 52 |
| 7 | PEROXIREDOXIN Q stimulates the activity of the chloroplast 16:1 ³ trans FATTY ACID DESATURASE4. <i>Plant Journal</i> , 2020, 102, 718-729. | 5.7 | 23 |
| 8 | A high-capacity gene stacking toolkit for the oleaginous microalga, <i>Nannochloropsis oceanica</i> CCMP1779. <i>Algal Research</i> , 2020, 45, 101664. | 4.6 | 34 |
| 9 | Modulation of CHT7 Complexes during Light/Dark- and Nitrogen-Mediated Life Cycle Transitions of <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2020, 184, 1762-1774. | 4.8 | 3 |
| 10 | TEOSINTE BRANCHED1/CYCLOIDEA/PROLIFERATING CELL FACTOR4 Interacts with WRINKLED1 to Mediate Seed Oil Biosynthesis. <i>Plant Physiology</i> , 2020, 184, 658-665. | 4.8 | 29 |
| 11 | Human health benefits of very-long-chain polyunsaturated fatty acids from microalgae. <i>Biochimie</i> , 2020, 178, 15-25. | 2.6 | 53 |
| 12 | The Microalga <i>Nannochloropsis</i> during Transition from Quiescence to Autotrophy in Response to Nitrogen Availability. <i>Plant Physiology</i> , 2020, 182, 819-839. | 4.8 | 54 |
| 13 | From δ -aminolevulinic acid to chlorophylls and every step in between: in memory of Constantin (Tino) A. Rebeiz, 1936–2019. <i>Photosynthesis Research</i> , 2020, 145, 71-82. | 2.9 | 7 |
| 14 | <i>Chlamydomonas</i> CHT7 Is Required for an Effective Quiescent State by Regulating Nutrient-Responsive Cell Cycle Gene Expression. <i>Plant Cell</i> , 2020, 32, 1240-1269. | 6.6 | 10 |
| 15 | Lipid trafficking and signaling in plants. , 2020, , 23-44. | | 1 |
| 16 | Algal-fungal symbiosis leads to photosynthetic mycelium. <i>ELife</i> , 2019, 8, . | 6.0 | 64 |
| 17 | <i>Arabidopsis</i> DGD1 SUPPRESSOR1 Is a Subunit of the Mitochondrial Contact Site and Cristae Organizing System and Affects Mitochondrial Biogenesis. <i>Plant Cell</i> , 2019, 31, 1856-1878. | 6.6 | 19 |
| 18 | A predicted plastid rhomboid protease affects phosphatidic acid metabolism in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 99, 978-987. | 5.7 | 10 |

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|----|--|------|-----------|
| 19 | Functional diversity of glycerolipid acylhydrolases in plant metabolism and physiology. <i>Progress in Lipid Research</i> , 2019, 75, 100987. | 11.6 | 19 |
| 20 | Cytosolic lipid droplets as engineered organelles for production and accumulation of terpenoid biomaterials in leaves. <i>Nature Communications</i> , 2019, 10, 853. | 12.8 | 51 |
| 21 | LIP4 Is Involved in Triacylglycerol Degradation in <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1250-1259. | 3.1 | 24 |
| 22 | Nitrogen-dependent coordination of cell cycle, quiescence and TAG accumulation in <i>Chlamydomonas</i> . <i>Biotechnology for Biofuels</i> , 2019, 12, 292. | 6.2 | 37 |
| 23 | Advanced genetic tools enable synthetic biology in the oleaginous microalgae <i>Nannochloropsis</i> sp.. <i>Plant Cell Reports</i> , 2018, 37, 1383-1399. | 5.6 | 79 |
| 24 | Nontransgenic Marker-Free Gene Disruption by an Episomal CRISPR System in the Oleaginous Microalga, <i>Nannochloropsis oceanica</i> CCMP1779. <i>ACS Synthetic Biology</i> , 2018, 7, 962-968. | 3.8 | 102 |
| 25 | Two Abscisic Acid-Responsive Plastid Lipase Genes Involved in Jasmonic Acid Biosynthesis in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2018, 30, 1006-1022. | 6.6 | 94 |
| 26 | Galactoglycerolipid Lipase PGD1 Is Involved in Thylakoid Membrane Remodeling in Response to Adverse Environmental Conditions in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2018, 30, tpc.00446.2017. | 6.6 | 60 |
| 27 | Recovery from N Deprivation Is a Transcriptionally and Functionally Distinct State in <i>Chlamydomonas</i> . <i>Plant Physiology</i> , 2018, 176, 2007-2023. | 4.8 | 30 |
| 28 | A toolkit for <i>Nannochloropsis oceanica</i> CCMP1779 enables gene stacking and genetic engineering of the eicosapentaenoic acid pathway for enhanced long-chain polyunsaturated fatty acid production. <i>Plant Biotechnology Journal</i> , 2018, 16, 298-309. | 8.3 | 118 |
| 29 | Functions of triacylglycerols during plant development and stress. <i>Current Opinion in Biotechnology</i> , 2018, 49, 191-198. | 6.6 | 106 |
| 30 | JAZ repressors of metabolic defense promote growth and reproductive fitness in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10768-E10777. | 7.1 | 172 |
| 31 | Enhancing oil production and harvest by combining the marine alga <i>Nannochloropsis oceanica</i> and the oleaginous fungus <i>Mortierella elongata</i> . <i>Biotechnology for Biofuels</i> , 2018, 11, 174. | 6.2 | 65 |
| 32 | Direct activation of a phospholipase by cyclic GMP-AMP in El Tor <i>Vibrio cholerae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6048-E6055. | 7.1 | 105 |
| 33 | In vivo lipid tag and track approach shows acyl editing of plastid lipids and chloroplast import of phosphatidylglycerol precursors in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2018, 95, 1129-1139. | 5.7 | 15 |
| 34 | <i>Nannochloropsis</i> , a rich source of diacylglycerol acyltransferases for engineering of triacylglycerol content in different hosts. <i>Biotechnology for Biofuels</i> , 2017, 10, 8. | 6.2 | 85 |
| 35 | Plant science from <i>The Plant Journal</i> Editors' perspective. <i>Plant Journal</i> , 2017, 90, 625-627. | 5.7 | 0 |
| 36 | Coevolution of Domain Interactions in the Chloroplast TGD1, 2, 3 Lipid Transfer Complex Specific to Brassicaceae and Poaceae Plants. <i>Plant Cell</i> , 2017, 29, 1500-1515. | 6.6 | 10 |

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|----|--|------|-----------|
| 37 | A Plastid Phosphatidylglycerol Lipase Contributes to the Export of Acyl Groups from Plastids for Seed Oil Biosynthesis. <i>Plant Cell</i> , 2017, 29, 1678-1696. | 6.6 | 56 |
| 38 | The Arabidopsis WRINKLED1 transcription factor affects auxin homeostasis in roots. <i>Journal of Experimental Botany</i> , 2017, 68, 4627-4634. | 4.8 | 42 |
| 39 | 14-3-3 protein mediates plant seed oil biosynthesis through interaction with AtWRI1. <i>Plant Journal</i> , 2016, 88, 228-235. | 5.7 | 60 |
| 40 | Triacylglycerol Accumulation in Photosynthetic Cells in Plants and Algae. <i>Sub-Cellular Biochemistry</i> , 2016, 86, 179-205. | 2.4 | 71 |
| 41 | Synthesis and transfer of galactolipids in the chloroplast envelope membranes of <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 10714-10719. | 7.1 | 50 |
| 42 | Synthetic biology for basic and applied plant research. <i>Plant Journal</i> , 2016, 87, 3-4. | 5.7 | 6 |
| 43 | SENSITIVE TO FREEZING2 Aids in Resilience to Salt and Drought in Freezing-Sensitive Tomato. <i>Plant Physiology</i> , 2016, 172, 1432-1442. | 4.8 | 28 |
| 44 | The plant lipidome in human and environmental health. <i>Science</i> , 2016, 353, 1228-1232. | 12.6 | 50 |
| 45 | Chloroplast Membrane Remodeling during Freezing Stress Is Accompanied by Cytoplasmic Acidification Activating SENSITIVE TO FREEZING2. <i>Plant Physiology</i> , 2016, 171, 2140-2149. | 4.8 | 57 |
| 46 | Stress-induced neutral lipid biosynthesis in microalgae – Molecular, cellular and physiological insights. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1269-1281. | 2.4 | 146 |
| 47 | An Energy-Independent Pro-longevity Function of Triacylglycerol in Yeast. <i>PLoS Genetics</i> , 2016, 12, e1005878. | 3.5 | 43 |
| 48 | Chloroplast lipid transfer processes in <i>Chlamydomonas reinhardtii</i> involving a <i>TRIGALACTOSYLDIACYLGLYCEROL</i> (TGD) orthologue. <i>Plant Journal</i> , 2015, 84, 1005-1020. | 5.7 | 37 |
| 49 | Deletion of a terminal intrinsically disordered region of <i>WRINKLED</i> 1 affects its stability and enhances oil accumulation in Arabidopsis. <i>Plant Journal</i> , 2015, 83, 864-874. | 5.7 | 75 |
| 50 | Transcriptional coordination of physiological responses in <i>Nannochloropsis oceanica</i> <i>CCMP</i> 1779 under light/dark cycles. <i>Plant Journal</i> , 2015, 83, 1097-1113. | 5.7 | 69 |
| 51 | Dynamics of protein and polar lipid recruitment during lipid droplet assembly in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2015, 83, 650-660. | 5.7 | 64 |
| 52 | Fueling research on <i>Chlamydomonas</i> . <i>Plant Journal</i> , 2015, 82, 363-364. | 5.7 | 2 |
| 53 | Ectopic expression of WRI1 affects fatty acid homeostasis in <i>Brachypodium distachyon</i> vegetative tissues. <i>Plant Physiology</i> , 2015, 169, pp.01236.2015. | 4.8 | 72 |
| 54 | Critical role of <i>Chlamydomonas reinhardtii</i> ferredoxin-5 in maintaining membrane structure and dark metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14978-14983. | 7.1 | 58 |

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|----|---|-----|-----------|
| 55 | Lipid Transport Involving Chloroplast Envelope Membranes in Plants and Algae. <i>FASEB Journal</i> , 2015, 29, 366.1. | 0.5 | 1 |
| 56 | Prevalence, Evolution, and cis-Regulation of Diel Transcription in <i>Chlamydomonas reinhardtii</i> . <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 2461-2471. | 1.8 | 29 |
| 57 | Structural Determinants Allowing Transferase Activity in SENSITIVE TO FREEZING 2, Classified as a Family I Glycosyl Hydrolase. <i>Journal of Biological Chemistry</i> , 2014, 289, 26089-26106. | 3.4 | 23 |
| 58 | The protein Compromised Hydrolysis of Triacylglycerols 7 (CHT7) acts as a repressor of cellular quiescence in <i>Chlamydomonas</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15833-15838. | 7.1 | 105 |
| 59 | Phosphate Starvation in Fungi Induces the Replacement of Phosphatidylcholine with the Phosphorus-Free Betaine Lipid Diacylglycerol- N , N , N -Trimethylhomoserine. <i>Eukaryotic Cell</i> , 2014, 13, 749-757. | 3.4 | 64 |
| 60 | Lipid Trafficking in Plant Cells. <i>Traffic</i> , 2014, 15, 915-932. | 2.7 | 119 |
| 61 | Plastidic ABC Proteins. <i>Signaling and Communication in Plants</i> , 2014, , 103-136. | 0.7 | 1 |
| 62 | Triacylglycerol profiling of microalgae <i>Chlamydomonas reinhardtii</i> and <i>Nannochloropsis oceanica</i> . <i>Bioresource Technology</i> , 2013, 146, 310-316. | 9.6 | 65 |
| 63 | The Phosphatidic Acid Binding Site of the Arabidopsis Trigalactosyldiacylglycerol 4 (TGD4) Protein Required for Lipid Import into Chloroplasts. <i>Journal of Biological Chemistry</i> , 2013, 288, 4763-4771. | 3.4 | 55 |
| 64 | Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a <i>Chlamydomonas reinhardtii</i> Starchless Mutant. <i>Plant Cell</i> , 2013, 25, 4305-4323. | 6.6 | 176 |
| 65 | Remodeling of Membrane Lipids in Iron-starved <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 30246-30258. | 3.4 | 77 |
| 66 | Lipid metabolism in microalgae distinguishes itself. <i>Current Opinion in Biotechnology</i> , 2013, 24, 300-309. | 6.6 | 258 |
| 67 | Altered Lipid Composition and Enhanced Nutritional Value of <i>Arabidopsis</i> Leaves following Introduction of an Algal Diacylglycerol Acyltransferase 2. <i>Plant Cell</i> , 2013, 25, 677-693. | 6.6 | 95 |
| 68 | COPPER RESPONSE REGULATOR1-Dependent and -Independent Responses of the <i>Chlamydomonas reinhardtii</i> Transcriptome to Dark Anoxia. <i>Plant Cell</i> , 2013, 25, 3186-3211. | 6.6 | 77 |
| 69 | Probing Arabidopsis Chloroplast Diacylglycerol Pools by Selectively Targeting Bacterial Diacylglycerol Kinase to Suborganellar Membranes. <i>Plant Physiology</i> , 2013, 163, 61-74. | 4.8 | 13 |
| 70 | WRINKLED1, A Ubiquitous Regulator in Oil Accumulating Tissues from Arabidopsis Embryos to Oil Palm Mesocarp. <i>PLoS ONE</i> , 2013, 8, e68887. | 2.5 | 111 |
| 71 | Genome, Functional Gene Annotation, and Nuclear Transformation of the Heterokont Oleaginous Alga <i>Nannochloropsis oceanica</i> CCMP1779. <i>PLoS Genetics</i> , 2012, 8, e1003064. | 3.5 | 376 |
| 72 | A Cytochrome b ₅ -Containing Plastid-Located Fatty Acid Desaturase from <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2012, 11, 856-863. | 3.4 | 65 |

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|----|--|-----|-----------|
| 73 | A Lipid Droplet Protein of <i>Nannochloropsis</i> with Functions Partially Analogous to Plant Oleosins. <i>Plant Physiology</i> , 2012, 158, 1562-1569. | 4.8 | 106 |
| 74 | Rapid Triacylglycerol Turnover in <i>Chlamydomonas reinhardtii</i> Requires a Lipase with Broad Substrate Specificity. <i>Eukaryotic Cell</i> , 2012, 11, 1451-1462. | 3.4 | 73 |
| 75 | TGD1, -2, and -3 Proteins Involved in Lipid Trafficking Form ATP-binding Cassette (ABC) Transporter with Multiple Substrate-binding Proteins. <i>Journal of Biological Chemistry</i> , 2012, 287, 21406-21415. | 3.4 | 89 |
| 76 | Chloroplast lipid synthesis and lipid trafficking through ER-plastid membrane contact sites. <i>Biochemical Society Transactions</i> , 2012, 40, 457-463. | 3.4 | 138 |
| 77 | Analysis of <i>Porphyra</i> Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems. <i>Plant Physiology</i> , 2012, 158, 2001-2012. | 4.8 | 35 |
| 78 | <i>Porphyra</i> (Bangiophyceae) Transcriptomes Provide Insights Into Red Algal Development And Metabolism. <i>Journal of Phycology</i> , 2012, 48, 1328-1342. | 2.3 | 56 |
| 79 | Three Acyltransferases and Nitrogen-responsive Regulator Are Implicated in Nitrogen Starvation-induced Triacylglycerol Accumulation in <i>Chlamydomonas</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 15811-15825. | 3.4 | 379 |
| 80 | New initiatives at The Plant Journal to better support the plant science community. <i>Plant Journal</i> , 2012, 72, 173-174. | 5.7 | 0 |
| 81 | A Galactoglycerolipid Lipase Is Required for Triacylglycerol Accumulation and Survival Following Nitrogen Deprivation in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2012, 24, 4670-4686. | 6.6 | 267 |
| 82 | Characterization of photosynthesis in <i>Arabidopsis</i> ER-to-plastid lipid trafficking mutants. <i>Photosynthesis Research</i> , 2012, 112, 49-61. | 2.9 | 13 |
| 83 | TGD4 involved in endoplasmic reticulum-chloroplast lipid trafficking is a phosphatidic acid binding protein. <i>Plant Journal</i> , 2012, 70, 614-623. | 5.7 | 94 |
| 84 | Dynamic regulation of lipid droplets in the microalgae <i>Chlamydomonas reinhardtii</i> . <i>FASEB Journal</i> , 2012, 26, 597.3. | 0.5 | 0 |
| 85 | Cardiolipin Deficiency in <i>Rhodobacter sphaeroides</i> Alters the Lipid Profile of Membranes and of Crystallized Cytochrome Oxidase, but Structure and Function Are Maintained. <i>Biochemistry</i> , 2011, 50, 3879-3890. | 2.5 | 24 |
| 86 | Combined Genetic and Metabolic Manipulation of Lipids in <i>Rhodobacter sphaeroides</i> Reveals Non-Phospholipid Substitutions in Fully Active Cytochrome <i>c</i> Oxidase. <i>Biochemistry</i> , 2011, 50, 3891-3902. | 2.5 | 18 |
| 87 | Galactoglycerolipid metabolism under stress: a time for remodeling. <i>Trends in Plant Science</i> , 2011, 16, 98-107. | 8.8 | 172 |
| 88 | Arabidopsis thaliana Polar Glycerolipid Profiling by Thin Layer Chromatography (TLC) Coupled with Gas-Liquid Chromatography (GLC). <i>Journal of Visualized Experiments</i> , 2011, , . | 0.3 | 58 |
| 89 | Increasing the energy density of vegetative tissues by diverting carbon from starch to oil biosynthesis in transgenic <i>Arabidopsis</i> . <i>Plant Biotechnology Journal</i> , 2011, 9, 874-883. | 8.3 | 165 |
| 90 | <i>Arabidopsis</i> chloroplast lipid transport protein TGD2 disrupts membranes and is part of a large complex. <i>Plant Journal</i> , 2011, 66, 759-769. | 5.7 | 51 |

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|-----|---|------|-----------|
| 91 | <i>The Plant Journal</i> turns twenty. <i>Plant Journal</i> , 2011, 67, 567-569. | 5.7 | 0 |
| 92 | The future is bright for <i>The Plant Journal</i> , now in its 20th year. <i>Plant Journal</i> , 2011, 68, 939-940. | 5.7 | 0 |
| 93 | Systems Biology Approach in <i>Chlamydomonas</i> Reveals Connections between Copper Nutrition and Multiple Metabolic Steps. <i>Plant Cell</i> , 2011, 23, 1273-1292. | 6.6 | 204 |
| 94 | A J-Like Protein Influences Fatty Acid Composition of Chloroplast Lipids in Arabidopsis. <i>PLoS ONE</i> , 2011, 6, e25368. | 2.5 | 24 |
| 95 | Editorial. <i>Plant Journal</i> , 2010, 61, 1-2. | 5.7 | 0 |
| 96 | Arabidopsis: A rich harvest 10 years after completion of the genome sequence. <i>Plant Journal</i> , 2010, 61, 905-908. | 5.7 | 16 |
| 97 | Lipid Transport Mediated by Arabidopsis TGD Proteins is Unidirectional from the Endoplasmic Reticulum to the Plastid. <i>Plant and Cell Physiology</i> , 2010, 51, 1019-1028. | 3.1 | 58 |
| 98 | Changes in Transcript Abundance in <i>Chlamydomonas reinhardtii</i> following Nitrogen Deprivation Predict Diversion of Metabolism. <i>Plant Physiology</i> , 2010, 154, 1737-1752. | 4.8 | 455 |
| 99 | Phosphate Regulation of Lipid Biosynthesis in Arabidopsis Is Independent of the Mitochondrial Outer Membrane DGS1 Complex. <i>Plant Physiology</i> , 2010, 152, 1951-1959. | 4.8 | 14 |
| 100 | Freezing Tolerance in Plants Requires Lipid Remodeling at the Outer Chloroplast Membrane. <i>Science</i> , 2010, 330, 226-228. | 12.6 | 422 |
| 101 | RNA Interference Silencing of a Major Lipid Droplet Protein Affects Lipid Droplet Size in <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2010, 9, 97-106. | 3.4 | 374 |
| 102 | Chapter 12 The Anionic Chloroplast Membrane Lipids: Phosphatidylglycerol and Sulfoquinovosyldiacylglycerol. <i>Advances in Photosynthesis and Respiration</i> , 2010, , 171-184. | 1.0 | 2 |
| 103 | Glycerolipid Biosynthesis. , 2009, , 41-68. | | 14 |
| 104 | Molecular Genetics of Lipid Metabolism in the Model Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Advances in Photosynthesis and Respiration</i> , 2009, , 139-155. | 1.0 | 26 |
| 105 | A 25-Amino Acid Sequence of the Arabidopsis TGD2 Protein Is Sufficient for Specific Binding of Phosphatidic Acid. <i>Journal of Biological Chemistry</i> , 2009, 284, 17420-17427. | 3.4 | 61 |
| 106 | FATTY ACID DESATURASE4 of Arabidopsis encodes a protein distinct from characterized fatty acid desaturases. <i>Plant Journal</i> , 2009, 60, 832-839. | 5.7 | 84 |
| 107 | Mechanisms of Lipid Transport Involved in Organelle Biogenesis in Plant Cells. <i>Annual Review of Cell and Developmental Biology</i> , 2009, 25, 71-91. | 9.4 | 241 |
| 108 | ENDOSPERM DEFECTIVE1 Is a Novel Microtubule-Associated Protein Essential for Seed Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2009, 21, 90-105. | 6.6 | 80 |

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|-----|---|------|-----------|
| 109 | Membrane Lipid Biosynthesis in Purple Bacteria. <i>Advances in Photosynthesis and Respiration</i> , 2009, , 119-134. | 1.0 | 10 |
| 110 | Mutation of a mitochondrial outer membrane protein affects chloroplast lipid biosynthesis. <i>Plant Journal</i> , 2008, 54, 163-175. | 5.7 | 30 |
| 111 | Plant triacylglycerols as feedstocks for the production of biofuels. <i>Plant Journal</i> , 2008, 54, 593-607. | 5.7 | 580 |
| 112 | Harnessing plant biomass for biofuels and biomaterials. <i>Plant Journal</i> , 2008, 54, 533-535. | 5.7 | 10 |
| 113 | Sulfolipid Biosynthesis and Function in Plants. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 185-200. | 1.0 | 15 |
| 114 | A role for lipid trafficking in chloroplast biogenesis. <i>Progress in Lipid Research</i> , 2008, 47, 381-389. | 11.6 | 107 |
| 115 | A membrane-tethered transcription factor defines a branch of the heat stress response in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16398-16403. | 7.1 | 248 |
| 116 | Functional Analyses of Cytosolic Glucose-6-Phosphate Dehydrogenases and Their Contribution to Seed Oil Accumulation in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 146, 277-288. | 4.8 | 86 |
| 117 | New Connections across Pathways and Cellular Processes: Industrialized Mutant Screening Reveals Novel Associations between Diverse Phenotypes in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2008, 146, 1482-1500. | 4.8 | 79 |
| 118 | Lipid Trafficking between the Endoplasmic Reticulum and the Plastid in <i>Arabidopsis</i> Requires the Extraplasmidic TGD4 Protein. <i>Plant Cell</i> , 2008, 20, 2190-2204. | 6.6 | 125 |
| 119 | A Small ATPase Protein of <i>Arabidopsis</i> , TGD3, Involved in Chloroplast Lipid Import. <i>Journal of Biological Chemistry</i> , 2007, 282, 35945-35953. | 3.4 | 127 |
| 120 | A Heteromeric Plastidic Pyruvate Kinase Complex Involved in Seed Oil Biosynthesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 2006-2022. | 6.6 | 185 |
| 121 | Digalactosyldiacylglycerol is Required for Better Photosynthetic Growth of <i>Synechocystis</i> sp. PCC6803 Under Phosphate Limitation. <i>Plant and Cell Physiology</i> , 2007, 48, 1517-1523. | 3.1 | 79 |
| 122 | <i>Arabidopsis</i> Seedlings Deficient in a Plastidic Pyruvate Kinase Are Unable to Utilize Seed Storage Compounds for Germination and Establishment. <i>Plant Physiology</i> , 2007, 145, 1670-1680. | 4.8 | 45 |
| 123 | Questions remaining in sulfolipid biosynthesis: a historical perspective. <i>Photosynthesis Research</i> , 2007, 92, 199-203. | 2.9 | 26 |
| 124 | Govindjee was honored with the First Lifetime Achievement Award, and Britta Färster and coworkers, with the First Annual Paper Prize of the Rebeiz Foundation for Basic Research. <i>Photosynthesis Research</i> , 2007, 94, 147-151. | 2.9 | 5 |
| 125 | TGD3, an ATPase Protein of <i>Arabidopsis</i> , Functions in ER-to-Plastid Lipid Trafficking. <i>FASEB Journal</i> , 2007, 21, A236. | 0.5 | 2 |
| 126 | Lipid trafficking between the endoplasmic reticulum and the chloroplast in the model plant <i>Arabidopsis</i> . <i>FASEB Journal</i> , 2007, 21, A37. | 0.5 | 2 |

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|-----|--|-----|-----------|
| 127 | Lipid trafficking between the endoplasmic reticulum and the chloroplast. <i>Biochemical Society Transactions</i> , 2006, 34, 395-398. | 3.4 | 23 |
| 128 | Phosphatidylglycerol biosynthesis in chloroplasts of Arabidopsis mutants deficient in acyl-ACP glycerol-3- phosphate acyltransferase. <i>Plant Journal</i> , 2006, 47, 296-309. | 5.7 | 95 |
| 129 | Non-vesicular and vesicular lipid trafficking involving plastids. <i>Current Opinion in Plant Biology</i> , 2006, 9, 241-247. | 7.1 | 77 |
| 130 | WR11 Is Required for Seed Germination and Seedling Establishment. <i>Plant Physiology</i> , 2006, 141, 745-757. | 4.8 | 113 |
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