List of Publications by Year in descending order

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| | | 8755 | 12272 |
|----------|----------------|--------------|----------------|
| 191 | 19,199 | 75 | 133 |
| papers | citations | h-index | g-index |
| | | | |
| | | | |
| 222 | 222 | 222 | 12626 |
| 225 | 225 | 225 | 12020 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | AGO1 defines a novel locus of Arabidopsis controlling leaf development. EMBO Journal, 1998, 17, 170-180. | 7.8 | 583 |
| 2 | Plant triacylglycerols as feedstocks for the production of biofuels. Plant Journal, 2008, 54, 593-607. | 5.7 | 580 |
| 3 | WRINKLED1 encodes an AP2/EREB domain protein involved in the control of storage compound biosynthesis in Arabidopsis. Plant Journal, 2004, 40, 575-585. | 5.7 | 548 |
| 4 | Contrapuntal Networks of Gene Expression during Arabidopsis Seed Filling[W]. Plant Cell, 2002, 14, 1191-1206. | 6.6 | 498 |
| 5 | wrinkled1: A Novel, Low-Seed-Oil Mutant of Arabidopsis with a Deficiency in the Seed-Specific Regulation of Carbohydrate Metabolism1. Plant Physiology, 1998, 118, 91-101. | 4.8 | 489 |
| 6 | Changes in Transcript Abundance in <i>Chlamydomonas reinhardtii</i> following Nitrogen Deprivation Predict Diversion of Metabolism. Plant Physiology, 2010, 154, 1737-1752. | 4.8 | 455 |
| 7 | Freezing Tolerance in Plants Requires Lipid Remodeling at the Outer Chloroplast Membrane. Science, 2010, 330, 226-228. | 12.6 | 422 |
| 8 | Galactolipids rule in seed plants. Trends in Plant Science, 2002, 7, 112-118. | 8.8 | 393 |
| 9 | Three Acyltransferases and Nitrogen-responsive Regulator Are Implicated in Nitrogen Starvation-induced Triacylglycerol Accumulation in Chlamydomonas. Journal of Biological Chemistry, 2012, 287, 15811-15825. | 3.4 | 379 |
| 10 | Genome, Functional Gene Annotation, and Nuclear Transformation of the Heterokont Oleaginous Alga Nannochloropsis oceanica CCMP1779. PLoS Genetics, 2012, 8, e1003064. | 3.5 | 376 |
| 11 | RNA Interference Silencing of a Major Lipid Droplet Protein Affects Lipid Droplet Size in <i>Chlamydomonas reinhardtii</i> . Eukaryotic Cell, 2010, 9, 97-106. | 3.4 | 374 |
| 12 | DGD1-independent biosynthesis of extraplastidic galactolipids after phosphate deprivation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 10649-10654. | 7.1 | 346 |
| 13 | Phosphate availability affects the thylakoid lipid composition and the expression of SQD1, a gene required for sulfolipid biosynthesis in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 1950-1955. | 7.1 | 342 |
| 14 | Microarray Analysis of Developing Arabidopsis Seeds. Plant Physiology, 2000, 124, 1570-1581. | 4.8 | 319 |
| 15 | Arabidopsis disrupted in SQD2 encoding sulfolipid synthase is impaired in phosphate-limited growth. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5732-5737. | 7.1 | 306 |
| 16 | Isolation and characterization of an Arabidopsis mutant deficient in the thylakoid lipid digalactosyl diacylglycerol Plant Cell, 1995, 7, 1801-1810. | 6.6 | 275 |
| 17 | A Galactoglycerolipid Lipase Is Required for Triacylglycerol Accumulation and Survival Following Nitrogen Deprivation in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2012, 24, 4670-4686. | 6.6 | 267 |
| 18 | Lipid metabolism in microalgae distinguishes itself. Current Opinion in Biotechnology, 2013, 24, 300-309. | 6.6 | 258 |

| # | Article | IF | CITATIONS |
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| 19 | Galactolipid deficiency and abnormal chloroplast development in the Arabidopsis MGD synthase 1 mutant. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8175-8179. | 7.1 | 257 |
| 20 | A membrane-tethered transcription factor defines a branch of the heat stress response in <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 16398-16403. | 7.1 | 248 |
| 21 | Accumulation of a Novel Glycolipid and a Betaine Lipid in Cells of Rhodobacter sphaeroides Grown under Phosphate Limitation. Archives of Biochemistry and Biophysics, 1995, 317, 103-111. | 3.0 | 247 |
| 22 | Mechanisms of Lipid Transport Involved in Organelle Biogenesis in Plant Cells. Annual Review of Cell and Developmental Biology, 2009, 25, 71-91. | 9.4 | 241 |
| 23 | A New Set of Arabidopsis Expressed Sequence Tags from Developing Seeds. The Metabolic Pathway from Carbohydrates to Seed Oil. Plant Physiology, 2000, 124, 1582-1594. | 4.8 | 214 |
| 24 | The TAG1 locus of Arabidopsis encodes for a diacylglycerol acyltransferase. Plant Physiology and Biochemistry, 1999, 37, 831-840. | 5.8 | 210 |
| 25 | A permease-like protein involved in ER to thylakoid lipid transfer in Arabidopsis. EMBO Journal, 2003, 22, 2370-2379. | 7.8 | 206 |
| 26 | A phosphatidic acid-binding protein of the chloroplast inner envelope membrane involved in lipid trafficking. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10817-10822. | 7.1 | 206 |
| 27 | Systems Biology Approach in <i>Chlamydomonas</i> Reveals Connections between Copper Nutrition and Multiple Metabolic Steps Â. Plant Cell, 2011, 23, 1273-1292. | 6.6 | 204 |
| 28 | Arabidopsis Galactolipid Biosynthesis and Lipid Trafficking Mediated by DGD1. Science, 1999, 284, 2181-2184. | 12.6 | 194 |
| 29 | BIOSYNTHESIS AND FUNCTION OF THE SULFOLIPID SULFOQUINOVOSYL DIACYLGLYCEROL. Annual Review of Plant Biology, 1998, 49, 53-75. | 14.3 | 192 |
| 30 | Annotation of Genes Involved in Glycerolipid Biosynthesis in Chlamydomonas reinhardtii : Discovery of the Betaine Lipid Synthase BTA1 Cr. Eukaryotic Cell, 2005, 4, 242-252. | 3.4 | 190 |
| 31 | Three Enzyme Systems for Galactoglycerolipid Biosynthesis Are Coordinately Regulated in Plants. Journal of Biological Chemistry, 2005, 280, 2397-2400. | 3.4 | 189 |
| 32 | A Heteromeric Plastidic Pyruvate Kinase Complex Involved in Seed Oil Biosynthesis in Arabidopsis. Plant Cell, 2007, 19, 2006-2022. | 6.6 | 185 |
| 33 | Comparative Genomics of Two Closely Related Unicellular Thermo-Acidophilic Red Algae, Galdieria sulphuraria and Cyanidioschyzon merolae, Reveals the Molecular Basis of the Metabolic Flexibility of Galdieria Âsulphuraria and Significant Differences in Carbohydrate Metabolism of Both Algae. Plant Physiology, 2005, 137, 460-474 | 4.8 | 184 |
| 34 | Mutation of the TGD1 Chloroplast Envelope Protein Affects Phosphatidate Metabolism in Arabidopsis Â. Plant Cell, 2005, 17, 3094-3110. | 6.6 | 179 |
| 35 | Systems-Level Analysis of Nitrogen Starvation-Induced Modifications of Carbon Metabolism in a Chlamydomonas reinhardtii Starchless Mutant. Plant Cell, 2013, 25, 4305-4323. | 6.6 | 176 |
| 36 | Galactoglycerolipid metabolism under stress: a time for remodeling. Trends in Plant Science, 2011, 16, 98-107. | 8.8 | 172 |

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| 37 | JAZ repressors of metabolic defense promote growth and reproductive fitness in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10768-E10777. | 7.1 | 172 |
| 38 | A Null Mutant of Synechococcus sp. PCC7942 Deficient in the Sulfolipid Sulfoquinovosyl Diacylglycerol. Journal of Biological Chemistry, 1996, 271, 7501-7507. | 3.4 | 166 |
| 39 | Increasing the energy density of vegetative tissues by diverting carbon from starch to oil biosynthesis in transgenic Arabidopsis. Plant Biotechnology Journal, 2011, 9, 874-883. | 8.3 | 165 |
| 40 | The sulfolipid sulfoquinovosyldiacylglycerol is not required for photosynthetic electron transport in Rhodobacter sphaeroides but enhances growth under phosphate limitation Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 1561-1565. | 7.1 | 163 |
| 41 | Anionic lipids are required for chloroplast structure and function inArabidopsis. Plant Journal, 2003, 36, 762-770. | 5.7 | 152 |
| 42 | Genome-wide analysis of glucose-6-phosphate dehydrogenases in Arabidopsis. Plant Journal, 2004, 41, 243-256. | 5.7 | 150 |
| 43 | Stress-induced neutral lipid biosynthesis in microalgae — Molecular, cellular and physiological insights. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1269-1281. | 2.4 | 146 |
| 44 | Chloroplast lipid synthesis and lipid trafficking through ER–plastid membrane contact sites. Biochemical Society Transactions, 2012, 40, 457-463. | 3.4 | 138 |
| 45 | Recombinant Arabidopsis SQD1 Converts UDP-glucose and Sulfite to the Sulfolipid Head Group Precursor UDP-sulfoquinovose in Vitro. Journal of Biological Chemistry, 2001, 276, 3941-3946. | 3.4 | 135 |
| 46 | The pgp1 Mutant Locus of Arabidopsis Encodes a Phosphatidylglycerolphosphate Synthase with Impaired Activity. Plant Physiology, 2002, 129, 594-604. | 4.8 | 131 |
| 47 | A Small ATPase Protein of Arabidopsis, TGD3, Involved in Chloroplast Lipid Import. Journal of Biological Chemistry, 2007, 282, 35945-35953. | 3.4 | 127 |
| 48 | Lipid Trafficking between the Endoplasmic Reticulum and the Plastid in <i>Arabidopsis</i> Requires the Extraplastidic TGD4 Protein. Plant Cell, 2008, 20, 2190-2204. | 6.6 | 125 |
| 49 | Lipid Trafficking in Plant Cells. Traffic, 2014, 15, 915-932. | 2.7 | 119 |
| 50 | A toolkit for <i>Nannochloropsis oceanica </i> <scp>CCMP</scp> 1779 enables gene stacking and genetic engineering of the eicosapentaenoic acid pathway for enhanced long hain polyunsaturated fatty acid production. Plant Biotechnology Journal, 2018, 16, 298-309. | 8.3 | 118 |
| 51 | WRI1 Is Required for Seed Germination and Seedling Establishment. Plant Physiology, 2006, 141, 745-757. | 4.8 | 113 |
| 52 | WRINKLED1, A Ubiquitous Regulator in Oil Accumulating Tissues from Arabidopsis Embryos to Oil Palm Mesocarp. PLoS ONE, 2013, 8, e68887. | 2.5 | 111 |
| 53 | Isolation and genetic complementation of a sulfolipid-deficient mutant of Rhodobacter sphaeroides. Journal of Bacteriology, 1992, 174, 2352-2360. | 2.2 | 109 |
| 54 | The Digalactosyldiacylglycerol (DGDG) Synthase DGD1 Is Inserted into the Outer Envelope Membrane of Chloroplasts in a Manner Independent of the General Import Pathway and Does Not Depend on Direct Interaction with Monogalactosyldiacylglycerol Synthase for DGDG Biosynthesis. Journal of Biological Chemistry, 2001, 276, 31806-31812. | 3.4 | 107 |

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| 55 | Loss of Plastidic Lysophosphatidic Acid Acyltransferase Causes Embryo-Lethality in Arabidopsis. Plant and Cell Physiology, 2004, 45, 503-510. | 3.1 | 107 |
| 56 | A role for lipid trafficking in chloroplast biogenesis. Progress in Lipid Research, 2008, 47, 381-389. | 11.6 | 107 |
| 57 | A Lipid Droplet Protein of <i>Nannochloropsis</i> with Functions Partially Analogous to Plant Oleosins Â. Plant Physiology, 2012, 158, 1562-1569. | 4.8 | 106 |
| 58 | Functions of triacylglycerols during plant development and stress. Current Opinion in Biotechnology, 2018, 49, 191-198. | 6.6 | 106 |
| 59 | The protein Compromised Hydrolysis of Triacylglycerols 7 (CHT7) acts as a repressor of cellular quiescence in Chlamydomonas. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15833-15838. | 7.1 | 105 |
| 60 | Direct activation of a phospholipase by cyclic GMP-AMP in El Tor <i>Vibrio cholerae</i> . Proceedings of the United States of America, 2018, 115, E6048-E6055. | 7.1 | 105 |
| 61 | Nontransgenic Marker-Free Gene Disruption by an Episomal CRISPR System in the Oleaginous Microalga, <i>Nannochloropsis oceanica</i> CCMP1779. ACS Synthetic Biology, 2018, 7, 962-968. | 3.8 | 102 |
| 62 | Phosphatidylglycerol biosynthesis in chloroplasts of Arabidopsis mutants deficient in acyl-ACP glycerol-3- phosphate acyltransferase. Plant Journal, 2006, 47, 296-309. | 5.7 | 95 |
| 63 | Altered Lipid Composition and Enhanced Nutritional Value of <i>Arabidopsis</i> Leaves following Introduction of an Algal Diacylglycerol Acyltransferase 2 Â. Plant Cell, 2013, 25, 677-693. | 6.6 | 95 |
| 64 | Changes in the Composition of the Photosynthetic Apparatus in the Galactolipid-Deficient dgd1 Mutant of Arabidopsis thaliana. Plant Physiology, 1997, 115, 1175-1184. | 4.8 | 94 |
| 65 | TGD4 involved in endoplasmic reticulumâ€ŧoâ€chloroplast lipid trafficking is a phosphatidic acid binding protein. Plant Journal, 2012, 70, 614-623. | 5.7 | 94 |
| 66 | Two Abscisic Acid-Responsive Plastid Lipase Genes Involved in Jasmonic Acid Biosynthesis in <i>Arabidopsis thaliana</i> . Plant Cell, 2018, 30, 1006-1022. | 6.6 | 94 |
| 67 | The Sulfolipids 2′-O-Acyl-Sulfoquinovosyldiacylglycerol and Sulfoquinovosyldiacylglycerol Are Absent from a Chlamydomonas reinhardtii Mutant Deleted in SQD1 Â. Plant Physiology, 2003, 133, 864-874. | 4.8 | 92 |
| 68 | EST-analysis of the thermo-acidophilic red microalga Galdieriasulphuraria reveals potential for lipid A biosynthesis and unveils the pathway of carbon export from rhodoplasts. Plant Molecular Biology, 2004, 55, 17-32. | 3.9 | 91 |
| 69 | TGD1, -2, and -3 Proteins Involved in Lipid Trafficking Form ATP-binding Cassette (ABC) Transporter with Multiple Substrate-binding Proteins. Journal of Biological Chemistry, 2012, 287, 21406-21415. | 3.4 | 89 |
| 70 | Functional Analyses of Cytosolic Glucose-6-Phosphate Dehydrogenases and Their Contribution to Seed Oil Accumulation in Arabidopsis. Plant Physiology, 2008, 146, 277-288. | 4.8 | 86 |
| 71 | Nannochloropsis, a rich source of diacylglycerol acyltransferases for engineering of triacylglycerol content in different hosts. Biotechnology for Biofuels, 2017, 10, 8. | 6.2 | 85 |
| 72 | FATTY ACID DESATURASE4 of Arabidopsis encodes a protein distinct from characterized fatty acid desaturases. Plant Journal, 2009, 60, 832-839. | 5.7 | 84 |

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| 73 | ENDOSPERM DEFECTIVE1 Is a Novel Microtubule-Associated Protein Essential for Seed Development in <i>Arabidopsis</i> Â. Plant Cell, 2009, 21, 90-105. | 6.6 | 80 |
| 74 | Digalactosyldiacylglycerol is Required for Better Photosynthetic Growth of Synechocystis sp. PCC6803 Under Phosphate Limitation. Plant and Cell Physiology, 2007, 48, 1517-1523. | 3.1 | 79 |
| 75 | New Connections across Pathways and Cellular Processes: Industrialized Mutant Screening Reveals Novel Associations between Diverse Phenotypes in Arabidopsis Â. Plant Physiology, 2008, 146, 1482-1500. | 4.8 | 79 |
| 76 | Advanced genetic tools enable synthetic biology in the oleaginous microalgae Nannochloropsis sp Plant Cell Reports, 2018, 37, 1383-1399. | 5.6 | 79 |
| 77 | Non-vesicular and vesicular lipid trafficking involving plastids. Current Opinion in Plant Biology, 2006, 9, 241-247. | 7.1 | 77 |
| 78 | Remodeling of Membrane Lipids in Iron-starved Chlamydomonas. Journal of Biological Chemistry, 2013, 288, 30246-30258. | 3.4 | 77 |
| 79 | COPPER RESPONSE REGULATOR1–Dependent and –Independent Responses of the <i>Chlamydomonas reinhardtii</i> Transcriptome to Dark Anoxia. Plant Cell, 2013, 25, 3186-3211. | 6.6 | 77 |
| 80 | Deletion of a C–terminal intrinsically disordered region of <scp>WRINKLED</scp> 1 affects its stability and enhances oil accumulation in Arabidopsis. Plant Journal, 2015, 83, 864-874. | 5.7 | 75 |
| 81 | Identification of an operon involved in sulfolipid biosynthesis in Rhodobacter sphaeroides. Journal of Bacteriology, 1992, 174, 6479-6487. | 2.2 | 73 |
| 82 | Rapid Triacylglycerol Turnover in Chlamydomonas reinhardtii Requires a Lipase with Broad Substrate Specificity. Eukaryotic Cell, 2012, 11, 1451-1462. | 3.4 | 73 |
| 83 | The role of UDPâ€glucose epimerase in carbohydrate metabolism ofArabidopsis. Plant Journal, 1998, 13, 641-652. | 5.7 | 72 |
| 84 | Ectopic expression of WRI1 affects fatty acid homeostasis in Brachypodium distachyon vegetative tissues. Plant Physiology, 2015, 169, pp.01236.2015. | 4.8 | 72 |
| 85 | Triacylglycerol Accumulation in Photosynthetic Cells in Plants and Algae. Sub-Cellular Biochemistry, 2016, 86, 179-205. | 2.4 | 71 |
| 86 | Comparison of sulfoquinovosyl diacylglycerol from spinach and the purple bacteriumRhodobacter sphaeroides by fast atom bombardment tandem mass spectrometry. Lipids, 1992, 27, 632-636. | 1.7 | 69 |
| 87 | Transcriptional coordination of physiological responses in <i><scp>N</scp>annochloropsis oceanica</i> <scp>CCMP</scp> 1779 under light/dark cycles. Plant Journal, 2015, 83, 1097-1113. | 5.7 | 69 |
| 88 | Crystal structure of SQD1, an enzyme involved in the biosynthesis of the plant sulfolipid headgroup donor UDP-sulfoquinovose. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13097-13102. | 7.1 | 68 |
| 89 | A Cytochrome <i>b</i> ₅ -Containing Plastid-Located Fatty Acid Desaturase from Chlamydomonas reinhardtii. Eukaryotic Cell, 2012, 11, 856-863. | 3.4 | 65 |
| 90 | Triacylglycerol profiling of microalgae Chlamydomonas reinhardtii and Nannochloropsis oceanica. Bioresource Technology, 2013, 146, 310-316. | 9.6 | 65 |

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| 91 | Enhancing oil production and harvest by combining the marine alga Nannochloropsis oceanica and the oleaginous fungus Mortierella elongata. Biotechnology for Biofuels, 2018, 11, 174. | 6.2 | 65 |
| 92 | Two enzymes of diacylglyceryl-O-4'-(N,N,N,-trimethyl)homoserine biosynthesis are encoded by btaA and btaB in the purple bacterium Rhodobacter sphaeroides. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5910-5915. | 7.1 | 64 |
| 93 | Phosphate Starvation in Fungi Induces the Replacement of Phosphatidylcholine with the Phosphorus-Free Betaine Lipid Diacylglyceryl- <i>N</i> , <i>N</i> , <i>N</i> , <i>N</i> -Trimethylhomoserine. Eukaryotic Cell, 2014, 13, 749-757. | 3.4 | 64 |
| 94 | Dynamics of protein and polar lipid recruitment during lipid droplet assembly in <i>Chlamydomonas reinhardtii</i> . Plant Journal, 2015, 83, 650-660. | 5.7 | 64 |
| 95 | Algal-fungal symbiosis leads to photosynthetic mycelium. ELife, 2019, 8, . | 6.0 | 64 |
| 96 | A 25-Amino Acid Sequence of the Arabidopsis TGD2 Protein Is Sufficient for Specific Binding of Phosphatidic Acid. Journal of Biological Chemistry, 2009, 284, 17420-17427. | 3.4 | 61 |
| 97 | A Cyanobacterial Gene, sqdX , Required for Biosynthesis of the Sulfolipid Sulfoquinovosyldiacylglycerol. Journal of Bacteriology, 2000, 182, 543-545. | 2.2 | 60 |
| 98 | 14â€3â€3 protein mediates plant seed oil biosynthesis through interaction with AtWRI1. Plant Journal, 2016, 88, 228-235. | 5.7 | 60 |
| 99 | Galactoglycerolipid Lipase PGD1 Is Involved in Thylakoid Membrane Remodeling in Response to Adverse Environmental Conditions in Chlamydomonas. Plant Cell, 2018, 30, tpc.00446.2017. | 6.6 | 60 |
| 100 | Lipid Transport Mediated by Arabidopsis TGD Proteins is Unidirectional from the Endoplasmic Reticulum to the Plastid. Plant and Cell Physiology, 2010, 51, 1019-1028. | 3.1 | 58 |
| 101 | Arabidopsis thaliana Polar Clycerolipid Profiling by Thin Layer Chromatography (TLC) Coupled with Gas-Liquid Chromatography (GLC). Journal of Visualized Experiments, 2011, , . | 0.3 | 58 |
| 102 | Critical role ofChlamydomonas reinhardtiiferredoxin-5 in maintaining membrane structure and dark metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14978-14983. | 7.1 | 58 |
| 103 | Chloroplast Membrane Remodeling during Freezing Stress Is Accompanied by Cytoplasmic Acidification Activating SENSITIVE TO FREEZING2. Plant Physiology, 2016, 171, 2140-2149. | 4.8 | 57 |
| 104 | <i>Porphyra</i> (Bangiophyceae) Transcriptomes Provide Insights Into Red Algal Development And Metabolism. Journal of Phycology, 2012, 48, 1328-1342. | 2.3 | 56 |
| 105 | A Plastid Phosphatidylglycerol Lipase Contributes to the Export of Acyl Groups from Plastids for Seed Oil Biosynthesis. Plant Cell, 2017, 29, 1678-1696. | 6.6 | 56 |
| 106 | The Phosphatidic Acid Binding Site of the Arabidopsis Trigalactosyldiacylglycerol 4 (TGD4) Protein Required for Lipid Import into Chloroplasts. Journal of Biological Chemistry, 2013, 288, 4763-4771. | 3.4 | 55 |
| 107 | The phospholipid-deficient pho1 mutant of Arabidopsis thaliana is affected in the organization, but not in the light acclimation, of the thylakoid membrane. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 205-218. | 2.6 | 54 |
| 108 | The Microalga <i>Nannochloropsis</i> during Transition from Quiescence to Autotrophy in Response to Nitrogen Availability. Plant Physiology, 2020, 182, 819-839. | 4.8 | 54 |

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| 109 | Human health benefits of very-long-chain polyunsaturated fatty acids from microalgae. Biochimie, 2020, 178, 15-25. | 2.6 | 53 |
| 110 | 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>). Plant Biotechnology Journal, 2020, 18, 155-171. | 8.3 | 52 |
| 111 | Arabidopsis chloroplast lipid transport protein TGD2 disrupts membranes and is part of a large complex. Plant Journal, 2011, 66, 759-769. | 5.7 | 51 |
| 112 | Cytosolic lipid droplets as engineered organelles for production and accumulation of terpenoid biomaterials in leaves. Nature Communications, 2019, 10, 853. | 12.8 | 51 |
| 113 | Synthesis and transfer of galactolipids in the chloroplast envelope membranes of <i>Arabidopsis thaliana</i> . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10714-10719. | 7.1 | 50 |
| 114 | The plant lipidome in human and environmental health. Science, 2016, 353, 1228-1232. | 12.6 | 50 |
| 115 | Digalactosyldiacylglycerol Synthesis in Chloroplasts of the Arabidopsis dgd1 Mutant. Plant Physiology, 2002, 128, 885-895. | 4.8 | 48 |
| 116 | Two enzymes, BtaA and BtaB, are sufficient for betaine lipid biosynthesis in bacteria. Archives of Biochemistry and Biophysics, 2005, 441, 96-105. | 3.0 | 48 |
| 117 | Accumulation of Sulfoquinovosyl-1-O-dihydroxyacetone in a Sulfolipid-Deficient Mutant ofRhodobacter sphaeroidesInactivated insqdC. Archives of Biochemistry and Biophysics, 1997, 340, 219-230. | 3.0 | 46 |
| 118 | Arabidopsis Seedlings Deficient in a Plastidic Pyruvate Kinase Are Unable to Utilize Seed Storage Compounds for Germination and Establishment. Plant Physiology, 2007, 145, 1670-1680. | 4.8 | 45 |
| 119 | An Energy-Independent Pro-longevity Function of Triacylglycerol in Yeast. PLoS Genetics, 2016, 12, e1005878. | 3.5 | 43 |
| 120 | Functional Expression of Uridine 5′-Diphospho-Glucose 4-Epimerase (EC 5.1.3.2) fromArabidopsis thalianainSaccharomyces cerevisiaeandEscherichia coli. Archives of Biochemistry and Biophysics, 1996, 327, 27-34. | 3.0 | 42 |
| 121 | The Arabidopsis WRINKLED1 transcription factor affects auxin homeostasis in roots. Journal of Experimental Botany, 2017, 68, 4627-4634. | 4.8 | 42 |
| 122 | Accumulation of UDP-sulfoquinovose in a Sulfolipid-deficient Mutant of Rhodobacter sphaeroides. Journal of Biological Chemistry, 1995, 270, 25792-25797. | 3.4 | 41 |
| 123 | Chloroplast lipid transfer processes in <i>Chlamydomonas reinhardtii</i> involving a <scp>TRIGALACTOSYLDIACYLGLYCEROL</scp> Å2 (<scp>TGD</scp> 2) orthologue. Plant Journal, 2015, 84, 1005-1020. | 5.7 | 37 |
| 124 | Nitrogen-dependent coordination of cell cycle, quiescence and TAG accumulation in Chlamydomonas. Biotechnology for Biofuels, 2019, 12, 292. | 6.2 | 37 |
| 125 | Ferredoxin-dependent glutamate synthase moonlights in plant sulfolipid biosynthesis by forming a complex with SQD1. Archives of Biochemistry and Biophysics, 2005, 436, 206-214. | 3.0 | 35 |
| 126 | Analysis of Porphyra Membrane Transporters Demonstrates Gene Transfer among Photosynthetic Eukaryotes and Numerous Sodium-Coupled Transport Systems Â. Plant Physiology, 2012, 158, 2001-2012. | 4.8 | 35 |

CHRISTOPH BENNING

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| 127 | A high-capacity gene stacking toolkit for the oleaginous microalga, Nannochloropsis oceanica CCMP1779. Algal Research, 2020, 45, 101664. | 4.6 | 34 |
| 128 | Disruption of a Gene Essential for Sulfoquinovosyldiacylglycerol Biosynthesis in Sinorhizobium meliloti Has No Detectable Effect on Root Nodule Symbiosis. Molecular Plant-Microbe Interactions, 2000, 13, 666-672. | 2.6 | 32 |
| 129 | A gene family in Arabidopsis thaliana with sequence similarity to NDR1 and HIN1. Plant Physiology and Biochemistry, 2000, 38, 789-796. | 5.8 | 32 |
| 130 | Galactolipids not associated with the photosynthetic apparatus in phosphate-deprived plants. Journal of Photochemistry and Photobiology B: Biology, 2001, 61, 46-51. | 3.8 | 32 |
| 131 | Prediction of the Active-Site Structure and NAD+ Binding in SQD1, a Protein Essential for Sulfolipid Biosynthesis in Arabidopsis. Archives of Biochemistry and Biophysics, 1999, 369, 30-41. | 3.0 | 31 |
| 132 | Characterization of tt15 , a novel transparent testa mutant of Arabidopsis thaliana (L.) Heynh Planta, 1999, 208, 352-357. | 3.2 | 30 |
| 133 | Mutation of a mitochondrial outer membrane protein affects chloroplast lipid biosynthesis. Plant Journal, 2008, 54, 163-175. | 5.7 | 30 |
| 134 | Recovery from N Deprivation Is a Transcriptionally and Functionally Distinct State in Chlamydomonas. Plant Physiology, 2018, 176, 2007-2023. | 4.8 | 30 |
| 135 | The Role of Chloroplast Membrane Lipid Metabolism in Plant Environmental Responses. Cells, 2021, 10, 706. | 4.1 | 30 |
| 136 | Prevalence, Evolution, and <i>cis</i> -Regulation of Diel Transcription in <i>Chlamydomonas reinhardtii</i> . G3: Genes, Genomes, Genetics, 2014, 4, 2461-2471. | 1.8 | 29 |
| 137 | TEOSINTE BRANCHED1/CYCLOIDEA/PROLIFERATING CELL FACTOR4 Interacts with WRINKLED1 to Mediate Seed Oil Biosynthesis. Plant Physiology, 2020, 184, 658-665. | 4.8 | 29 |
| 138 | SENSITIVE TO FREEZING2 Aids in Resilience to Salt and Drought in Freezing-Sensitive Tomato. Plant Physiology, 2016, 172, 1432-1442. | 4.8 | 28 |
| 139 | Photosynthetic light utilization and xanthophyll cycle activity in the galactolipid deficient dgd1 mutant of Arabidopsis thaliana. Plant Physiology and Biochemistry, 1998, 36, 407-417. | 5.8 | 26 |
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