

Yonghua Li-Beisson

List of Publications by Year in descending order

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77
papers

8,351
citations

94269

37
h-index

71532

76
g-index

89
all docs

89
docs citations

89
times ranked

7953
citing authors

#	ARTICLE	IF	CITATIONS
1	Acyl-Lipid Metabolism. The Arabidopsis Book, 2013, 11, e0161.	0.5	974
2	Building lipid barriers: biosynthesis of cutin and suberin. Trends in Plant Science, 2008, 13, 236-246.	4.3	779
3	Oil accumulation in the model green alga <i>Chlamydomonas reinhardtii</i> : characterization, variability between common laboratory strains and relationship with starch reserves. BMC Biotechnology, 2011, 11, 7.	1.7	625
4	The Acyltransferase GPAT5 Is Required for the Synthesis of Suberin in Seed Coat and Root of Arabidopsis. Plant Cell, 2007, 19, 351-368.	3.1	366
5	Identification of acyltransferases required for cutin biosynthesis and production of cutin with suberin-like monomers. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18339-18344.	3.3	348
6	Oil content of Arabidopsis seeds: The influence of seed anatomy, light and plant-to-plant variation. Phytochemistry, 2006, 67, 904-915.	1.4	324
7	An algal photoenzyme converts fatty acids to hydrocarbons. Science, 2017, 357, 903-907.	6.0	317
8	Acyl-Lipid Metabolism. The Arabidopsis Book, 2010, 8, e0133.	0.5	287
9	The lipid biochemistry of eukaryotic algae. Progress in Lipid Research, 2019, 74, 31-68.	5.3	258
10	Solving the puzzles of cutin and suberin polymer biosynthesis. Current Opinion in Plant Biology, 2012, 15, 329-337.	3.5	256
11	Metabolism of acyl lipids in <i>Chlamydomonas reinhardtii</i> . Plant Journal, 2015, 82, 504-522.	2.8	230
12	Nanoridges that characterize the surface morphology of flowers require the synthesis of cutin polyester. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22008-22013.	3.3	228
13	Fatty Acid and Lipid Transport in Plant Cells. Trends in Plant Science, 2016, 21, 145-158.	4.3	227
14	Proteomic profiling of oil bodies isolated from the unicellular green microalga <i>Chlamydomonas reinhardtii</i> : With focus on proteins involved in lipid metabolism. Proteomics, 2011, 11, 4266-4273.	1.3	201
15	Identification of an Arabidopsis Feruloyl-Coenzyme A Transferase Required for Suberin Synthesis. Plant Physiology, 2009, 151, 1317-1328.	2.3	193
16	A Land-Plant-Specific Glycerol-3-Phosphate Acyltransferase Family in Arabidopsis: Substrate Specificity, sn-2 Preference, and Evolution. Plant Physiology, 2012, 160, 638-652.	2.3	188
17	A distinct type of glycerol-3-phosphate acyltransferase with sn-2 preference and phosphatase activity producing 2-monoacylglycerol. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12040-12045.	3.3	169
18	Mutations in UDP-Glucose: Sterol Glucosyltransferase in Arabidopsis Cause Transparent Testa Phenotype and Suberization Defect in Seeds. Plant Physiology, 2009, 151, 78-87.	2.3	135

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19	Lipidomic and transcriptomic analyses of <i>Chlamydomonas reinhardtii</i> under heat stress unveil a direct route for the conversion of membrane lipids into storage lipids. <i>Plant, Cell and Environment</i> , 2016, 39, 834-847.	2.8	124
20	Microalgal lipid droplets: composition, diversity, biogenesis and functions. <i>Plant Cell Reports</i> , 2015, 34, 545-555.	2.8	118
21	Microalgae Synthesize Hydrocarbons from Long-Chain Fatty Acids via a Light-Dependent Pathway. <i>Plant Physiology</i> , 2016, 171, 2393-2405.	2.3	102
22	Monoacylglycerols Are Components of Root Waxes and Can Be Produced in the Aerial Cuticle by Ectopic Expression of a Suberin-Associated Acyltransferase. <i>Plant Physiology</i> , 2007, 144, 1267-1277.	2.3	99
23	Mechanism and dynamics of fatty acid photodecarboxylase. <i>Science</i> , 2021, 372, .	6.0	93
24	Comparison of various microalgae liquid biofuel production pathways based on energetic, economic and environmental criteria. <i>Bioresource Technology</i> , 2013, 136, 205-212.	4.8	88
25	CELLULOSE SYNTHASE9 Serves a Nonredundant Role in Secondary Cell Wall Synthesis in Arabidopsis Epidermal Testa Cells. <i>Plant Physiology</i> , 2010, 153, 580-589.	2.3	86
26	The Green Microalga <i>Chlamydomonas reinhardtii</i> Has a Single Δ^3 Fatty Acid Desaturase That Localizes to the Chloroplast and Impacts Both Plastidic and Extrplastidic Membrane Lipids. <i>Plant Physiology</i> , 2013, 163, 914-928.	2.3	83
27	Lipid catabolism in microalgae. <i>New Phytologist</i> , 2018, 218, 1340-1348.	3.5	83
28	<i>Chlamydomonas</i> carries out fatty acid β -oxidation in ancestral peroxisomes using a bona fide acyl-CoA oxidase. <i>Plant Journal</i> , 2017, 90, 358-371.	2.8	80
29	Identification of a <i>Chlamydomonas</i> plastidial lysophosphatidic acid acyltransferase and its use to engineer microalgae with increased oil content. <i>Plant Biotechnology Journal</i> , 2016, 14, 2158-2167.	4.1	72
30	Rapid Induction of Lipid Droplets in <i>Chlamydomonas reinhardtii</i> and <i>Chlorella vulgaris</i> by Brefeldin A. <i>PLoS ONE</i> , 2013, 8, e81978.	1.1	63
31	Alternative photosynthesis pathways drive the algal CO ₂ -concentrating mechanism. <i>Nature</i> , 2022, 605, 366-371.	13.7	62
32	Development and validation of a screening procedure of microalgae for biodiesel production: Application to the genus of marine microalgae <i>Nannochloropsis</i> . <i>Bioresource Technology</i> , 2015, 177, 224-232.	4.8	57
33	Saturating Light Induces Sustained Accumulation of Oil in Plastidial Lipid Droplets in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2016, 171, 2406-2417.	2.3	54
34	Interorganelle Communication: Peroxisomal MALATE DEHYDROGENASE2 Connects Lipid Catabolism to Photosynthesis through Redox Coupling in <i>Chlamydomonas</i> . <i>Plant Cell</i> , 2018, 30, 1824-1847.	3.1	51
35	Hyper-accumulation of starch and oil in a <i>Chlamydomonas</i> mutant affected in a plant-specific DYRK kinase. <i>Biotechnology for Biofuels</i> , 2016, 9, 55.	6.2	50
36	Development of a forward genetic screen to isolate oil mutants in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology for Biofuels</i> , 2013, 6, 178.	6.2	49

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37	Molecular Genetic Tools and Emerging Synthetic Biology Strategies to Increase Cellular Oil Content in <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1184-1196.	1.5	41
38	Algal photosynthesis converts nitric oxide into nitrous oxide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2704-2709.	3.3	41
39	Plant unusual fatty acids: learning from the less common. <i>Current Opinion in Plant Biology</i> , 2020, 55, 66-73.	3.5	41
40	The biosynthesis of cutin and suberin as an alternative source of enzymes for the production of bio-based chemicals and materials. <i>Biochimie</i> , 2009, 91, 685-691.	1.3	40
41	<i>Chlorella vulgaris</i> genome assembly and annotation reveals the molecular basis for metabolic acclimation to high light conditions. <i>Plant Journal</i> , 2019, 100, 1289-1305.	2.8	39
42	The NanDeSyn database for <i>Nannochloropsis</i> systems and synthetic biology. <i>Plant Journal</i> , 2020, 104, 1736-1745.	2.8	37
43	Plant membrane-protein mediated intracellular traffic of fatty acids and acyl lipids. <i>Current Opinion in Plant Biology</i> , 2017, 40, 138-146.	3.5	36
44	The bZIP1 Transcription Factor Regulates Lipid Remodeling and Contributes to ER Stress Management in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2019, 31, 1127-1140.	3.1	34
45	Continuous photoproduction of hydrocarbon drop-in fuel by microbial cell factories. <i>Scientific Reports</i> , 2019, 9, 13713.	1.6	33
46	Third-generation biofuels: current and future research on microalgal lipid biotechnology. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2013, 20, D606.	0.6	29
47	Lipids: From Chemical Structures, Biosynthesis, and Analyses to Industrial Applications. <i>Sub-Cellular Biochemistry</i> , 2016, 86, 1-18.	1.0	28
48	Seed-Specific Overexpression of the Pyruvate Transporter BASS2 Increases Oil Content in Arabidopsis Seeds. <i>Frontiers in Plant Science</i> , 2017, 8, 194.	1.7	27
49	Branched-Chain Amino Acid Catabolism Impacts Triacylglycerol Homeostasis in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2019, 179, 1502-1514.	2.3	26
50	LIP4 Is Involved in Triacylglycerol Degradation in <i>Chlamydomonas reinhardtii</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1250-1259.	1.5	24
51	Subcellular Energetics and Carbon Storage in <i>Chlamydomonas</i> . <i>Cells</i> , 2019, 8, 1154.	1.8	23
52	Fatty acid photodecarboxylase is an ancient photoenzyme that forms hydrocarbons in the thylakoids of algae. <i>Plant Physiology</i> , 2021, 186, 1455-1472.	2.3	23
53	The Phosphate Fast-Responsive Genes <i>PECP1</i> and <i>PPsPase1</i> Affect Phosphocholine and Phosphoethanolamine Content. <i>Plant Physiology</i> , 2018, 176, 2943-2962.	2.3	22
54	Physiological functions of malate shuttles in plants and algae. <i>Trends in Plant Science</i> , 2022, 27, 488-501.	4.3	21

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55	Cloning and molecular characterization of a glycerol-3-phosphate O-acyltransferase (GPAT) gene from <i>Echium</i> (Boraginaceae) involved in the biosynthesis of cutin polyesters. <i>Planta</i> , 2010, 232, 987-997.	1.6	20
56	The disassembly of lipid droplets in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2021, 231, 1359-1364.	3.5	19
57	The small molecule fenpropimorph rapidly converts chloroplast membrane lipids to triacylglycerols in <i>Chlamydomonas reinhardtii</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 54.	1.5	18
58	Quantitative analysis of glycerol in dicarboxylic acid-rich cutins provides insights into <i>Arabidopsis</i> cutin structure. <i>Phytochemistry</i> , 2016, 130, 159-169.	1.4	17
59	The <i>Chlamydomonas mex1</i> mutant shows impaired starch mobilization without maltose accumulation. <i>Journal of Experimental Botany</i> , 2017, 68, 5177-5189.	2.4	16
60	Deletion of BSG1 in <i>Chlamydomonas reinhardtii</i> leads to abnormal starch granule size and morphology. <i>Scientific Reports</i> , 2019, 9, 1990.	1.6	16
61	The phosphatidylethanolamine-binding protein DTH1 mediates degradation of lipid droplets in <i>Chlamydomonas reinhardtii</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23131-23139.	3.3	14
62	ppGpp influences protein protection, growth and photosynthesis in <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2021, 230, 1517-1532.	3.5	14
63	Long-chain acyl-CoA synthetases activate fatty acids for lipid synthesis, remodeling and energy production in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2022, 233, 823-837.	3.5	14
64	<i>Chlamydomonas</i> cell cycle mutant <i>crdc5</i> over-accumulates starch and oil. <i>Biochimie</i> , 2020, 169, 54-61.	1.3	13
65	Membrane Inlet Mass Spectrometry: A Powerful Tool for Algal Research. <i>Frontiers in Plant Science</i> , 2020, 11, 1302.	1.7	13
66	Whole Genome Re-Sequencing Identifies a Quantitative Trait Locus Repressing Carbon Reserve Accumulation during Optimal Growth in <i>Chlamydomonas reinhardtii</i> . <i>Scientific Reports</i> , 2016, 6, 25209.	1.6	12
67	Cloning and characterization of a gene encoding a malic enzyme involved in anaerobic growth in <i>Mucor circinelloides</i> . <i>Mycological Research</i> , 2005, 109, 461-468.	2.5	11
68	CO ₂ supply modulates lipid remodelling, photosynthetic and respiratory activities in <i>Chlorella</i> species. <i>Plant, Cell and Environment</i> , 2021, 44, 2987-3001.	2.8	11
69	Guanosine tetraphosphate (ppGpp) accumulation inhibits chloroplast gene expression and promotes super grana formation in the moss <i>Physcomitrium</i> (<i>Physcomitrella patens</i>). <i>New Phytologist</i> , 2022, 236, 86-98.	3.5	7
70	Deciphering Differential Life Stage Radioinduced Reproductive Decline in <i>Caenorhabditis elegans</i> through Lipid Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10277.	1.8	6
71	The <i>Chlamydomonas</i> transcription factor MYB1 mediates lipid accumulation under nitrogen depletion. <i>New Phytologist</i> , 2022, 235, 595-610.	3.5	6
72	Biogenesis and fate of lipid droplets. <i>Biochimie</i> , 2020, 169, 1-2.	1.3	5

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73	Membrane Inlet Mass Spectrometry at the Crossroads of Photosynthesis, Biofuel, and Climate Research. <i>Plant Physiology</i> , 2020, 183, 451-454.	2.3	4
74	Centrifugation-induced production of triacylglycerols in <i>Chlamydomonas reinhardtii</i> . <i>Bioresource Technology Reports</i> , 2019, 5, 326-330.	1.5	3
75	Plant and Algal Lipids Set Sail for New Horizons. <i>Plant and Cell Physiology</i> , 2019, 60, 1161-1163.	1.5	2
76	Identification of Insertion Site by RESDA-PCR in <i>Chlamydomonas</i> Mutants Generated by AphVIII Random Insertional Mutagenesis. <i>Bio-protocol</i> , 2018, 8, e2718.	0.2	2
77	Editorial Feature: Meet the <i>PCP</i> Editor—Yonghua Li-Beisson. <i>Plant and Cell Physiology</i> , 2022, 63, 151-153.	1.5	0