

Yonghua Li-Beisson

List of Publications by Year in descending order

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Version: 2024-02-01

77
papers

8,351
citations

94433

37
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71685

76
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89
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89
docs citations

89
times ranked

7953
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	7.3	14
2	Physiological functions of malate shuttles in plants and algae. <i>Trends in Plant Science</i> , 2022, 27, 488-501.	8.8	21
3	The <i>Chlamydomonas</i> transcription factor MYB1 mediates lipid accumulation under nitrogen depletion. <i>New Phytologist</i> , 2022, 235, 595-610.	7.3	6
4	Editorial Feature: Meet the <i>PCP</i> Editor—Yonghua Li-Beisson. <i>Plant and Cell Physiology</i> , 2022, 63, 151-153.	3.1	0
5	Alternative photosynthesis pathways drive the algal CO ₂ -concentrating mechanism. <i>Nature</i> , 2022, 605, 366-371.	27.8	62
6	Guanosine tetraphosphate (ppGpp) accumulation inhibits chloroplast gene expression and promotes super grana formation in the moss <i>Physcomitrium</i> (<i>Physcomitrella</i>) <i>patens</i> . <i>New Phytologist</i> , 2022, 236, 86-98.	7.3	7
7	ppGpp influences protein protection, growth and photosynthesis in <i>Phaeodactylum tricornutum</i> . <i>New Phytologist</i> , 2021, 230, 1517-1532.	7.3	14
8	Fatty acid photodecarboxylase is an ancient photoenzyme that forms hydrocarbons in the thylakoids of algae. <i>Plant Physiology</i> , 2021, 186, 1455-1472.	4.8	23
9	Mechanism and dynamics of fatty acid photodecarboxylase. <i>Science</i> , 2021, 372, .	12.6	93
10	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.	5.7	11
11	The disassembly of lipid droplets in <i>Chlamydomonas</i> . <i>New Phytologist</i> , 2021, 231, 1359-1364.	7.3	19
12	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.	4.1	6
13	<i>Chlamydomonas</i> cell cycle mutant <i>crdc5</i> over-accumulates starch and oil. <i>Biochimie</i> , 2020, 169, 54-61.	2.6	13
14	Biogenesis and fate of lipid droplets. <i>Biochimie</i> , 2020, 169, 1-2.	2.6	5
15	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.	7.1	14
16	Membrane Inlet Mass Spectrometry: A Powerful Tool for Algal Research. <i>Frontiers in Plant Science</i> , 2020, 11, 1302.	3.6	13
17	The NanDeSyn database for <i>Nannochloropsis</i> systems and synthetic biology. <i>Plant Journal</i> , 2020, 104, 1736-1745.	5.7	37
18	Membrane Inlet Mass Spectrometry at the Crossroads of Photosynthesis, Biofuel, and Climate Research. <i>Plant Physiology</i> , 2020, 183, 451-454.	4.8	4

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19	Algal photosynthesis converts nitric oxide into nitrous oxide. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2704-2709.	7.1	41
20	Plant unusual fatty acids: learning from the less common. Current Opinion in Plant Biology, 2020, 55, 66-73.	7.1	41
21	<i>Chlorella vulgaris</i> genome assembly and annotation reveals the molecular basis for metabolic acclimation to high light conditions. Plant Journal, 2019, 100, 1289-1305.	5.7	39
22	Continuous photoproduction of hydrocarbon drop-in fuel by microbial cell factories. Scientific Reports, 2019, 9, 13713.	3.3	33
23	Subcellular Energetics and Carbon Storage in <i>Chlamydomonas</i> . Cells, 2019, 8, 1154.	4.1	23
24	The lipid biochemistry of eukaryotic algae. Progress in Lipid Research, 2019, 74, 31-68.	11.6	258
25	Molecular Genetic Tools and Emerging Synthetic Biology Strategies to Increase Cellular Oil Content in <i>Chlamydomonas reinhardtii</i> . Plant and Cell Physiology, 2019, 60, 1184-1196.	3.1	41
26	Plant and Algal Lipids Set Sail for New Horizons. Plant and Cell Physiology, 2019, 60, 1161-1163.	3.1	2
27	The bZIP1 Transcription Factor Regulates Lipid Remodeling and Contributes to ER Stress Management in <i>Chlamydomonas reinhardtii</i> . Plant Cell, 2019, 31, 1127-1140.	6.6	34
28	Deletion of BSG1 in <i>Chlamydomonas reinhardtii</i> leads to abnormal starch granule size and morphology. Scientific Reports, 2019, 9, 1990.	3.3	16
29	Branched-Chain Amino Acid Catabolism Impacts Triacylglycerol Homeostasis in <i>Chlamydomonas reinhardtii</i> . Plant Physiology, 2019, 179, 1502-1514.	4.8	26
30	LIP4 Is Involved in Triacylglycerol Degradation in <i>Chlamydomonas reinhardtii</i> . Plant and Cell Physiology, 2019, 60, 1250-1259.	3.1	24
31	Centrifugation-induced production of triacylglycerols in <i>Chlamydomonas reinhardtii</i> . Bioresource Technology Reports, 2019, 5, 326-330.	2.7	3
32	The Phosphate Fast-Responsive Genes <i>PECP1</i> and <i>PPsPase1</i> Affect Phosphocholine and Phosphoethanolamine Content. Plant Physiology, 2018, 176, 2943-2962.	4.8	22
33	Lipid catabolism in microalgae. New Phytologist, 2018, 218, 1340-1348.	7.3	83
34	Interorganelle Communication: Peroxisomal MALATE DEHYDROGENASE2 Connects Lipid Catabolism to Photosynthesis through Redox Coupling in <i>Chlamydomonas</i> . Plant Cell, 2018, 30, 1824-1847.	6.6	51
35	Identification of Insertion Site by RESDA-PCR in <i>Chlamydomonas</i> Mutants Generated by AphVIII Random Insertional Mutagenesis. Bio-protocol, 2018, 8, e2718.	0.4	2
36	<i>Chlamydomonas</i> carries out fatty acid β -oxidation in ancestral peroxisomes using a bona fide acyl-CoA oxidase. Plant Journal, 2017, 90, 358-371.	5.7	80

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37	The <i>Chlamydomonas mex1</i> mutant shows impaired starch mobilization without maltose accumulation. <i>Journal of Experimental Botany</i> , 2017, 68, 5177-5189.	4.8	16
38	An algal photoenzyme converts fatty acids to hydrocarbons. <i>Science</i> , 2017, 357, 903-907.	12.6	317
39	Seed-Specific Overexpression of the Pyruvate Transporter BASS2 Increases Oil Content in Arabidopsis Seeds. <i>Frontiers in Plant Science</i> , 2017, 8, 194.	3.6	27
40	Plant membrane-protein mediated intracellular traffic of fatty acids and acyl lipids. <i>Current Opinion in Plant Biology</i> , 2017, 40, 138-146.	7.1	36
41	Lipids: From Chemical Structures, Biosynthesis, and Analyses to Industrial Applications. <i>Sub-Cellular Biochemistry</i> , 2016, 86, 1-18.	2.4	28
42	Quantitative analysis of glycerol in dicarboxylic acid-rich cutins provides insights into Arabidopsis cutin structure. <i>Phytochemistry</i> , 2016, 130, 159-169.	2.9	17
43	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.	3.3	12
44	Saturating Light Induces Sustained Accumulation of Oil in Plastidal Lipid Droplets in <i>Chlamydomonas reinhardtii</i> . <i>Plant Physiology</i> , 2016, 171, 2406-2417.	4.8	54
45	Microalgae Synthesize Hydrocarbons from Long-Chain Fatty Acids via a Light-Dependent Pathway. <i>Plant Physiology</i> , 2016, 171, 2393-2405.	4.8	102
46	Identification of a <i>Chlamydomonas</i> plastidal 2-acylphosphatidic acid acyltransferase and its use to engineer microalgae with increased oil content. <i>Plant Biotechnology Journal</i> , 2016, 14, 2158-2167.	8.3	72
47	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.	5.7	124
48	Fatty Acid and Lipid Transport in Plant Cells. <i>Trends in Plant Science</i> , 2016, 21, 145-158.	8.8	227
49	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
50	Metabolism of acyl lipids in <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2015, 82, 504-522.	5.7	230
51	The small molecule fenpropimorph rapidly converts chloroplast membrane lipids to triacylglycerols in <i>Chlamydomonas reinhardtii</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 54.	3.5	18
52	Microalgal lipid droplets: composition, diversity, biogenesis and functions. <i>Plant Cell Reports</i> , 2015, 34, 545-555.	5.6	118
53	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.	9.6	57
54	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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55	Comparison of various microalgae liquid biofuel production pathways based on energetic, economic and environmental criteria. <i>Bioresource Technology</i> , 2013, 136, 205-212.	9.6	88
56	Acyl-Lipid Metabolism. <i>The Arabidopsis Book</i> , 2013, 11, e0161.	0.5	974
57	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.	4.8	83
58	Third-generation biofuels: current and future research on microalgal lipid biotechnology. <i>OCL - Oilseeds and Fats, Crops and Lipids</i> , 2013, 20, D606.	1.4	29
59	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.	2.5	63
60	A Land-Plant-Specific Glycerol-3-Phosphate Acyltransferase Family in Arabidopsis: Substrate Specificity, ω -2 Preference, and Evolution $\Delta\Delta$. <i>Plant Physiology</i> , 2012, 160, 638-652.	4.8	188
61	Solving the puzzles of cutin and suberin polymer biosynthesis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 329-337.	7.1	256
62	Oil accumulation in the model green alga <i>Chlamydomonas reinhardtii</i> : characterization, variability between common laboratory strains and relationship with starch reserves. <i>BMC Biotechnology</i> , 2011, 11, 7.	3.3	625
63	Proteomic profiling of oil bodies isolated from the unicellular green microalga <i>Chlamydomonas reinhardtii</i> : With focus on proteins involved in lipid metabolism. <i>Proteomics</i> , 2011, 11, 4266-4273.	2.2	201
64	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.	3.2	20
65	A distinct type of glycerol-3-phosphate acyltransferase with ω -2 preference and phosphatase activity producing 2-monoacylglycerol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12040-12045.	7.1	169
66	CELLULOSE SYNTHASE9 Serves a Nonredundant Role in Secondary Cell Wall Synthesis in Arabidopsis Epidermal Testa Cells $\Delta\Delta\Delta$. <i>Plant Physiology</i> , 2010, 153, 580-589.	4.8	86
67	Acyl-Lipid Metabolism. <i>The Arabidopsis Book</i> , 2010, 8, e0133.	0.5	287
68	Mutations in UDP-Glucose: Sterol Glucosyltransferase in Arabidopsis Cause Transparent Testa Phenotype and Suberization Defect in Seeds $\Delta\Delta\Delta$. <i>Plant Physiology</i> , 2009, 151, 78-87.	4.8	135
69	Nanoridges that characterize the surface morphology of flowers require the synthesis of cutin polyester. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22008-22013.	7.1	228
70	Identification of an Arabidopsis Feruloyl-Coenzyme A Transferase Required for Suberin Synthesis $\Delta\Delta$. <i>Plant Physiology</i> , 2009, 151, 1317-1328.	4.8	193
71	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.	2.6	40
72	Building lipid barriers: biosynthesis of cutin and suberin. <i>Trends in Plant Science</i> , 2008, 13, 236-246.	8.8	779

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73	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.	7.1	348
74	Monoacylglycerols Are Components of Root Waxes and Can Be Produced in the Aerial Cuticle by Ectopic Expression of a Suberin-Associated Acyltransferase. Plant Physiology, 2007, 144, 1267-1277.	4.8	99
75	The Acyltransferase GPAT5 Is Required for the Synthesis of Suberin in Seed Coat and Root of Arabidopsis. Plant Cell, 2007, 19, 351-368.	6.6	366
76	Oil content of Arabidopsis seeds: The influence of seed anatomy, light and plant-to-plant variation. Phytochemistry, 2006, 67, 904-915.	2.9	324
77	Cloning and characterization of a gene encoding a malic enzyme involved in anaerobic growth in Mucor circinelloides. Mycological Research, 2005, 109, 461-468.	2.5	11