

Ikuo Nishida

List of Publications by Year in descending order

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80
papers

6,561
citations

87888

38
h-index

76900

74
g-index

81
all docs

81
docs citations

81
times ranked

7062
citing authors

#	ARTICLE	IF	CITATIONS
1	Acyl-Lipid Metabolism. The Arabidopsis Book, 2013, 11, e0161.	0.5	974
2	CHILLING SENSITIVITY IN PLANTS AND CYANOBACTERIA: The Crucial Contribution of Membrane Lipids. Annual Review of Plant Biology, 1996, 47, 541-568.	14.3	556
3	Genetically engineered alteration in the chilling sensitivity of plants. Nature, 1992, 356, 710-713.	27.8	460
4	The DEFECTIVE IN ANther DEHISCENCE1 Gene Encodes a Novel Phospholipase A1 Catalyzing the Initial Step of Jasmonic Acid Biosynthesis, Which Synchronizes Pollen Maturation, Anther Dehiscence, and Flower Opening in Arabidopsis. Plant Cell, 2001, 13, 2191-2209.	6.6	444
5	Acyl-Lipid Metabolism. The Arabidopsis Book, 2010, 8, e0133.	0.5	287
6	Tris(dialkylamino)sulfonium enolates. Synthesis, structure, and reactions. Journal of the American Chemical Society, 1983, 105, 1598-1608.	13.7	225
7	Disruption of the novel plant protein NEF1 affects lipid accumulation in the plastids of the tapetum and exine formation of pollen, resulting in male sterility in Arabidopsis thaliana. Plant Journal, 2004, 39, 170-181.	5.7	224
8	Dark-inducible genes from Arabidopsis thaliana are associated with leaf senescence and repressed by sugars. Physiologia Plantarum, 2001, 111, 345-352.	5.2	192
9	Erythro-selective aldol reaction via tris(dialkylamino)sulfonium enolates. Journal of the American Chemical Society, 1981, 103, 2106-2108.	13.7	162
10	A delayed leaf senescence mutant is defective in arginyl-tRNA:protein arginyltransferase, a component of the N-end rule pathway in Arabidopsis. Plant Journal, 2002, 32, 129-137.	5.7	138
11	Identification of a novel gene HYS1/CPR5 that has a repressive role in the induction of leaf senescence and pathogen-defence responses in Arabidopsis thaliana. Plant Journal, 2002, 29, 427-437.	5.7	133
12	Plants Synthesize Ethanolamine by Direct Decarboxylation of Serine Using a Pyridoxal Phosphate Enzyme. Journal of Biological Chemistry, 2001, 276, 35523-35529.	3.4	126
13	Chloroplast Transformation with Modified accD Operon Increases Acetyl-CoA Carboxylase and Causes Extension of Leaf Longevity and Increase in Seed Yield in Tobacco. Plant and Cell Physiology, 2002, 43, 1518-1525.	3.1	126
14	Starch-Related β -Glucan/Water Dikinase Is Involved in the Cold-Induced Development of Freezing Tolerance in Arabidopsis. Plant Physiology, 2005, 138, 837-846.	4.8	116
15	Tris(dialkylamino)sulfonium enolates. Journal of the American Chemical Society, 1980, 102, 1223-1225.	13.7	115
16	An Increase in Unsaturation of Fatty Acids in Phosphatidylglycerol from Leaves Improves the Rates of Photosynthesis and Growth at Low Temperatures in Transgenic Rice Seedlings. Plant and Cell Physiology, 2002, 43, 751-758.	3.1	106
17	Colonization by the Arbuscular Mycorrhizal Fungus Glomus versiforme Induces a Defense Response Against the Root-knot Nematode Meloidogyne incognita in the Grapevine (Vitis amurensis Rupr.), Which Includes Transcriptional Activation of the Class III Chitinase Gene VCH3. Plant and Cell Physiology, 2006, 47, 154-163.	3.1	106
18	Effect of Thiolactomycin on the Individual Enzymes of the Fatty Acid Synthase System in Escherichia coli. Journal of Biochemistry, 1986, 99, 1447-1454.	1.7	105

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19	Isolation and RNA Gel Blot Analysis of Genes that Could Serve as Potential Molecular Markers for Leaf Senescence in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 170-178.	3.1	103
20	AtABCA9 transporter supplies fatty acids for lipid synthesis to the endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 773-778.	7.1	103
21	The gene and the RNA for the precursor to the plastid-located glycerol-3-phosphate acyltransferase of <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 1993, 21, 267-277.	3.9	90
22	Cloning of Δ^3 desaturase from cyanobacteria and its use in altering the degree of membrane-lipid unsaturation. <i>Plant Molecular Biology</i> , 1994, 26, 249-263.	3.9	89
23	Analysis of the Structure, Substrate Specificity, and Mechanism of Squash Glycerol-3-Phosphate (1)-Acyltransferase. <i>Structure</i> , 2001, 9, 347-353.	3.3	82
24	<i>PHOSPHATIDYLSERINE SYNTHASE1</i> is required for microspore development in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 648-661.	5.7	81
25	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
26	Multiple Signaling Pathways in Gene Expression during Sugar Starvation. Pharmacological Analysis of <i>din</i> Gene Expression in Suspension-Cultured Cells of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2000, 124, 1139-1148.	4.8	78
27	Defects in CTP:PHOSPHORYLETHANOLAMINE CYTIDYLYLTRANSFERASE Affect Embryonic and Postembryonic Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 18, 3370-3385.	6.6	75
28	Cloning and nucleotide sequence of cDNA for the plastid glycerol-3-phosphate acyltransferase from squash. <i>FEBS Letters</i> , 1988, 238, 424-430.	2.8	72
29	Identification of a <i>Chlamydomonas</i> plastidial Δ^2 -lysophosphatidic acid acyltransferase and its use to engineer microalgae with increased oil content. <i>Plant Biotechnology Journal</i> , 2016, 14, 2158-2167.	8.3	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.	2.5	63
31	Spin-label ESR studies of lipid-protein interactions in thylakoid membranes. <i>Biochemistry</i> , 1989, 28, 7446-7452.	2.5	54
32	Identification of conserved domains in the Δ^12 desaturases of cyanobacteria. <i>Plant Molecular Biology</i> , 1994, 24, 643-650.	3.9	54
33	Phosphatidylcholine Biosynthesis at Low Temperature: Differential Expression of CTP:Phosphorylcholine Cytidylyltransferase Isogenes in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2002, 43, 1342-1350.	3.1	51
34	Molecular cloning of higher-plant 3-oxoacyl-(acyl carrier protein) reductase. Sequence identities with the <i>nodG</i> -gene product of the nitrogen-fixing soil bacterium <i>Rhizobium meliloti</i> . <i>Biochemical Journal</i> , 1992, 283, 321-326.	3.7	46
35	Alkylation via tris(dialkylamino)sulfonium enolates. <i>Tetrahedron Letters</i> , 1980, 21, 2085-2088.	1.4	45
36	Activation of the Promoters of <i>Arabidopsis</i> Genes for the Branched-Chain β -Keto Acid Dehydrogenase Complex in Transgenic Tobacco BY-2 Cells under Sugar Starvation. <i>Plant and Cell Physiology</i> , 2002, 43, 275-280.	3.1	43

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37	Leucine and its keto acid enhance the coordinated expression of genes for branched-chain amino acid catabolism in <i>Arabidopsis</i> under sugar starvation. <i>FEBS Letters</i> , 2001, 499, 161-165.	2.8	42
38	The Leaf-Order-Dependent Enhancement of Freezing Tolerance in Cold-Acclimated <i>Arabidopsis</i> Rosettes is not Correlated with the Transcript Levels of the Cold-Inducible Transcription Factors of CBF/DREB1. <i>Plant and Cell Physiology</i> , 2003, 44, 922-931.	3.1	38
39	The Significance of C16 Fatty Acids in the sn-2 Positions of Glycerolipids in the Photosynthetic Growth of <i>Synechocystis</i> sp. PCC6803. <i>Plant Physiology</i> , 2006, 141, 546-556.	4.8	38
40	Cloning of <i>Brassica napus</i> CTP:phosphocholine cytidyltransferase cDNAs by complementation in a yeast cct mutant. <i>Plant Molecular Biology</i> , 1996, 31, 205-211.	3.9	35
41	Nucleotide sequence of a cDNA clone encoding a precursor to stearyl-(acyl-carrier-protein) desaturase from spinach, <i>Spinacia oleracea</i> . <i>Plant Molecular Biology</i> , 1992, 19, 711-713.	3.9	33
42	Expression of mRNA and steady-state levels of protein isoforms of enoyl-ACP reductase from <i>Brassica napus</i> . <i>Plant Molecular Biology</i> , 1994, 26, 155-163.	3.9	33
43	Eukaryotic lipid metabolic pathway is essential for functional chloroplasts and CO ₂ and light responses in <i>Arabidopsis</i> guard cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9038-9043.	7.1	32
44	Yeast 1,3-β-D-Glucan Synthase Activity Is Inhibited by Phytosphingosine Localized to the Endoplasmic Reticulum. <i>Journal of Biological Chemistry</i> , 2001, 276, 26923-26930.	3.4	30
45	Isozyme-Specific Modes of Activation of CTP:Phosphorylcholine Cytidyltransferase in <i>Arabidopsis thaliana</i> at Low Temperature. <i>Plant and Cell Physiology</i> , 2009, 50, 1727-1735.	3.1	30
46	Photoassimilation, Assimilate Translocation and Plasmodesmal Biogenesis in the Source Leaves of <i>Arabidopsis thaliana</i> Grown Under an Increased Atmospheric CO ₂ Concentration. <i>Plant and Cell Physiology</i> , 2014, 55, 358-369.	3.1	28
47	Response to Darkness of Late-Responsive Dark-Inducible Genes is Positively Regulated by Leaf Age and Negatively Regulated by Calmodulin-Antagonist-Sensitive Signalling in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2005, 46, 1741-1746.	3.1	27
48	Seed-Specific Overexpression of the Pyruvate Transporter BASS2 Increases Oil Content in <i>Arabidopsis</i> Seeds. <i>Frontiers in Plant Science</i> , 2017, 8, 194.	3.6	27
49	Phosphorylation of a Bifunctional Enzyme, 6-Phosphofructo-2-kinase/fructose-2,6-bisphosphate 2-phosphatase, is Regulated Physiologically and Developmentally in Rosette Leaves of <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2001, 42, 1044-1048.	3.1	24
50	Semisynthesis of a spin-labeled monogalactosyldiacylglycerol and its application to the assay for galactolipid-transfer activity in spinach leaves. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 813, 298-306.	2.6	23
51	New shifts in the Journal of Plant Research. <i>Journal of Plant Research</i> , 2016, 129, 1-2.	2.4	20
52	Mitochondrial Phosphatidylethanolamine Level Modulates Cyt c Oxidase Activity to Maintain Respiration Capacity in <i>Arabidopsis thaliana</i> Rosette Leaves. <i>Plant and Cell Physiology</i> , 2013, 54, 1612-1619.	3.1	19
53	Concentrations of long-chain acyl-acyl carrier proteins during fatty acid synthesis by chloroplasts isolated from pea (<i>Pisum sativum</i>), safflower (<i>Carthamus tinctoris</i>) and amaranthus (<i>Amaranthus</i>) Tj ETQq1 1 0.784314 rgBTk Overload	3.1	18
54	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

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55	A tris(dialkylamino)sulfonium phenoxide. <i>Tetrahedron Letters</i> , 1981, 22, 3993-3996.	1.4	17
56	Acyl-(acyl-carrier protein) hydrolase from squash cotyledons specific to long-chain fatty acids: purification and characterization. <i>Plant Molecular Biology</i> , 1992, 20, 199-206.	3.9	17
57	With gratitude for the <i>Journal of Plant Research</i> . <i>Journal of Plant Research</i> , 2017, 130, 1-2.	2.4	17
58	Site-specific electronic configurations of Fe ^{3d} states by energy loss by channeled electrons. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	16
59	A Second Gene for Acyl-(Acyl-Carrier-Protein): Glycerol-3-Phosphate Acyltransferase in Squash, <i>Cucurbita moschata</i> cv. Shirogikuza*, Codes for an Oleate-Selective Isozyme: Molecular Cloning and Protein Purification Studies. <i>Plant and Cell Physiology</i> , 2000, 41, 1381-1391.	3.1	11
60	Genetic variation of storage compounds and seed weight in rapeseed (<i>Brassica napus</i> L.) germplasms. <i>Breeding Science</i> , 2011, 61, 311-315.	1.9	10
61	New challenges with the <i>Journal of Plant Research</i> . <i>Journal of Plant Research</i> , 2015, 128, 1-2.	2.4	10
62	A novel cell division factor from tobacco 2B-13 cells that induced cell division in auxin-starved tobacco BY-2 cells. <i>Die Naturwissenschaften</i> , 2006, 93, 278-285.	1.6	9
63	Crystallization and preliminary X-ray analysis of the glycerol-3-phosphate 1-acyltransferase from squash (<i>Cucurbita moschata</i>). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 451-453.	2.5	8
64	Plastid Metabolic Pathways for Fatty Acid Metabolism. , 2004, , 543-564.		8
65	Effect of Thiolactomycin on Fatty Acid Synthesis in Higher Plants. <i>Plant and Cell Physiology</i> , 1987, 28, 851-855.	3.1	7
66	Local Electronic and Atomic Structure of Ce ³⁺ -Containing Fluoride/Oxide Determined by TEM-EELS and First-Principles Calculations. <i>Materials Transactions</i> , 2009, 50, 952-958.	1.2	7
67	Characterization of a <i>Chlamydomonas reinhardtii</i> mutant defective in a maltose transporter. <i>Journal of Plant Biology</i> , 2015, 58, 344-351.	2.1	7
68	Epigenetic floral homeotic mutation in pD991-AP3-derived T-DNA-tagged lines for CTP:Phosphorylcholine cytidyltransferase (CCT) Genes: The homeotic mutation of the cct1-1 allele is enhanced by the cct2 allele and alleviated by CCT1 overexpression. <i>Journal of Plant Biology</i> , 2015, 58, 183-192.	2.1	5
69	From the new Editor-in-Chief: A sense of personal identity with the <i>Journal of Plant Research</i> . <i>Journal of Plant Research</i> , 2013, 126, 321-322.	2.4	4
70	Modulation of Fatty Acid Synthesis in Plants by Thiolactomycin. , 1987, , 447-454.		4
71	Prominent Difference of Glycerolipids among Anther Walls, Pollen Grains and Leaves of Rice and Maize. <i>Plant and Cell Physiology</i> , 0, , .	3.1	3
72	As we begin a new year with the <i>Journal of Plant Research</i> . <i>Journal of Plant Research</i> , 2014, 127, 1-2.	2.4	3

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73	Phosphatidylserine Is Required for the Normal Progression of Cell Plate Formation in <i>Arabidopsis</i> Root Meristems. <i>Plant and Cell Physiology</i> , 2021, 62, 1396-1408.	3.1	3
74	2014 awards in the Journal of Plant Research. <i>Journal of Plant Research</i> , 2014, 127, 573-574.	2.4	2
75	2013 Awards for Journal of Plant Research publications. <i>Journal of Plant Research</i> , 2013, 126, 587-588.	2.4	1
76	Genetic disruption of CRC 12S globulin increases seed oil content and seed yield in <i>Arabidopsis thaliana</i> . <i>Plant Biotechnology</i> , 2013, 30, 327-333.	1.0	1
77	2015 Awards in the Journal of Plant Research. <i>Journal of Plant Research</i> , 2015, 128, 719-720.	2.4	1
78	Molecular Biology of Plant Lipids.. Nippon Nogeikagaku Kaishi, 1992, 66, 49-52.	0.0	0
79	2016 Awards in the Journal of Plant Research. <i>Journal of Plant Research</i> , 2016, 129, 1011-1012.	2.4	0
80	Editorial: Proceedings of ASPL2019 - 8th Asian-Oceanian Symposium on Plant Lipids. <i>Frontiers in Plant Science</i> , 2020, 11, 617094.	3.6	0