# Ikuo Nishida

List of Publications by Year
in descending order



| 80 | 6,561 | 87888 38 | 76900 74 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 81 | 81 | 81 | 7062 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Phosphatidylserine Is Required for the Normal Progression of Cell Plate Formation in Arabidopsis Root Meristems. Plant and Cell Physiology, 2021, 62, 1396-1408. | 3.1 | 3 |
| 2 | Editorial: Proceedings of ASPL2019 - 8th Asian-Oceanian Symposium on Plant Lipids. Frontiers in Plant Science, 2020, 11, 617094. | 3.6 | 0 |
| 3 | Eukaryotic lipid metabolic pathway is essential for functional chloroplasts and CO <sub>2</sub> and light responses in Arabidopsis guard cells. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9038-9043. | 7.1 | 32 |
| 4 | With gratitude for the Journal of Plant Research. Journal of Plant Research, 2017, 130, 1-2. | 2.4 | 17 |
| 5 | Seed-Specific Overexpression of the Pyruvate Transporter BASS2 Increases Oil Content in Arabidopsis Seeds. Frontiers in Plant Science, 2017, 8, 194. | 3.6 | 27 |
| 6 | 2016 Awards in the Journal of Plant Research. Journal of Plant Research, 2016, 129, 1011-1012. | 2.4 | 0 |
| 7 | New shifts in the Journal of Plant Research. Journal of Plant Research, 2016, 129, 1-2. | 2.4 | 20 |
| 8 | Identification of a Chlamydomonas plastidial 2â€lysophosphatidic acid acyltransferase and its use toÂengineer microalgae with increased oil content. Plant Biotechnology Journal, 2016, 14, 2158-2167. | 8.3 | 72 |
| 9 | New challenges with the Journal of Plant Research. Journal of Plant Research, 2015, 128, 1-2. | 2.4 | 10 |
| 10 | Epigenetic floral homeotic mutation in pD991-AP3-derived T-DNA-tagged lines for CTP:Phosphorylcholine cytidylyltransferase (CCT) Genes: The homeotic mutation of the cct1-1 allele is enhanced by the cct2 allele and alleviated by CCT1 overexpression. Journal of Plant Biology, 2015, 58, 183-192. | 2.1 | 5 |
| 11 | The small molecule fenpropimorph rapidly converts chloroplast membrane lipids to triacylglycerols in Chlamydomonas reinhardtii. Frontiers in Microbiology, 2015, 6, 54. | 3.5 | 18 |
| 12 | Characterization of a Chlamydomonas reinhardtii mutant defective in a maltose transporter. Journal of Plant Biology, 2015, 58, 344-351. | 2.1 | 7 |
| 13 | 2015 Awards in the Journal of Plant Research. Journal of Plant Research, 2015, 128, 719-720. | 2.4 | 1 |
| 14 | Photoassimilation, Assimilate Translocation and Plasmodesmal Biogenesis in the Source Leaves of Arabidopsis thaliana Grown Under an Increased Atmospheric CO2 Concentration. Plant and Cell Physiology, 2014, 55, 358-369. | 3.1 | 28 |
| 15 | As we begin a new year with the Journal of Plant Research. Journal of Plant Research, 2014, 127, 1-2. | 2.4 | 3 |
| 16 | 2014 awards in the Journal of Plant Research. Journal of Plant Research, 2014, 127, 573-574. | 2.4 | 2 |
| 17 | Mitochondrial Phosphatidylethanolamine Level Modulates Cyt c Oxidase Activity to Maintain Respiration Capacity in Arabidopsis thaliana Rosette Leaves. Plant and Cell Physiology, 2013, 54, 1612-1619. | 3.1 | 19 |
| 18 | 2013 Awards for Journal of Plant Research publications. Journal of Plant Research, 2013, 126, 587-588. | 2.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | From the new Editor-in-Chief: A sense of personal identity with the Journal of Plant Research. Journal of Plant Research, 2013, 126, 321-322. | 2.4 | 4 |
| 20 | Acyl-Lipid Metabolism. The Arabidopsis Book, 2013, 11, e0161. | 0.5 | 974 |
| 21 | AtABCA9 transporter supplies fatty acids for lipid synthesis to the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 773-778. | 7.1 | 103 |
| 22 | Genetic disruption of CRC 12S globulin increases seed oil content and seed yield in Arabidopsis thaliana. Plant Biotechnology, 2013, 30, 327-333. | 1.0 | 1 |
| 23 | Rapid Induction of Lipid Droplets in Chlamydomonas reinhardtii and Chlorella vulgaris by Brefeldin A. PLoS ONE, 2013, 8, e81978. | 2.5 | 63 |
| 24 | Genetic variation of storage compounds and seed weight in rapeseed (Brassica napus L.) germplasms. Breeding Science, 2011, 61, 311-315. | 1.9 | 10 |
| 25 | PHOSPHATIDYLSERINE SYNTHASE1 is required for microspore development in Arabidopsis thaliana. Plant Journal, 2011, 67, 648-661. | 5.7 | 81 |
| 26 | Site-specific electronic configurations of Feâ€,3d states by energy loss by channeled electrons. Applied Physics Letters, 2010, 96, . | 3.3 | 16 |
| 27 | Acyl-Lipid Metabolism. The Arabidopsis Book, 2010, 8, e0133. | 0.5 | 287 |
| 28 | Isozyme-Specific Modes of Activation of CTP:Phosphorylcholine Cytidylyltransferase in Arabidopsis thaliana at Low Temperature. Plant and Cell Physiology, 2009, 50, 1727-1735. | 3.1 | 30 |
| 29 | Local Electronic and Atomic Structure of Ce<SUP>3+</SUP>-Containing Fluoride/Oxide Determined by TEM-EELS and First-Principles Calculations. Materials Transactions, 2009, 50, 952-958. | 1.2 | 7 |
| 30 | Defects in CTP:PHOSPHORYLETHANOLAMINE CYTIDYLYLTRANSFERASE Affect Embryonic and Postembryonic Development in Arabidopsis. Plant Cell, 2007, 18, 3370-3385. | 6.6 | 75 |
| 31 | 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 |
| 32 | 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 |
| 33 | A novel cell division factor from tobacco 2B-13 cells that induced cell division in auxin-starved tobacco BY-2 cells. Die Naturwissenschaften, 2006, 93, 278-285. | 1.6 | 9 |
| 34 | The Significance of C16 Fatty Acids in the sn-2 Positions of Glycerolipids in the Photosynthetic Growth of Synechocystis sp. PCC6803. Plant Physiology, 2006, 141, 546-556. | 4.8 | 38 |
| 35 | Starch-Related Î±-Glucan/Water Dikinase Is Involved in the Cold-Induced Development of Freezing Tolerance in Arabidopsis. Plant Physiology, 2005, 138, 837-846. | 4.8 | 116 |
| 36 | Response to Darkness of Late-Responsive Dark-Inducible Genes is Positively Regulated by Leaf Age and Negatively Regulated by Calmodulin-Antagonist-Sensitive Signalling in Arabidopsis thaliana. Plant and Cell Physiology, 2005, 46, 1741-1746. | 3.1 | 27 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Plastid Metabolic Pathways for Fatty Acid Metabolism. , 2004, , 543-564. | | 8 |
| 38 | 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 inArabidopsis thaliana. Plant Journal, 2004, 39, 170-181. | 5.7 | 224 |
| 39 | The Leaf-Order-Dependent Enhancement of Freezing Tolerance in Cold-Acclimated Arabidopsis Rosettes is not Correlated with the Transcript Levels of the Cold-Inducible Transcription Factors of CBF/DREB1. Plant and Cell Physiology, 2003, 44, 922-931. | 3.1 | 38 |
| 40 | 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 |
| 41 | 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 |
| 42 | Activation of the Promoters of Arabidopsis Genes for the Branched-Chain Î±-Keto Acid Dehydrogenase Complex in Transgenic Tobacco BY-2 Cells under Sugar Starvation. Plant and Cell Physiology, 2002, 43, 275-280. | 3.1 | 43 |
| 43 | Phosphatidylcholine Biosynthesis at Low Temperature: Differential Expression of CTP:Phosphorylcholine Cytidylyltransferase Isogenes in Arabidopsis thaliana. Plant and Cell Physiology, 2002, 43, 1342-1350. | 3.1 | 51 |
| 44 | 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 |
| 45 | A delayed leaf senescence mutant is defective in arginyl-tRNA:protein arginyltransferase, a component of the N-end rule pathway inArabidopsis. Plant Journal, 2002, 32, 129-137. | 5.7 | 138 |
| 46 | Leucine and its keto acid enhance the coordinated expression of genes for branched-chain amino acid catabolism inArabidopsisunder sugar starvation. FEBS Letters, 2001, 499, 161-165. | 2.8 | 42 |
| 47 | Crystallization and preliminary X-ray analysis of the glycerol-3-phosphate 1-acyltransferase from squash (Cucurbita moschata). Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 451-453. | 2.5 | 8 |
| 48 | Dark-inducible genes fromArabidopsisthalianaare associated with leaf senescence and repressed by sugars. Physiologia Plantarum, 2001, 111, 345-352. | 5.2 | 192 |
| 49 | Analysis of the Structure, Substrate Specificity, and Mechanism of Squash Glycerol-3-Phosphate (1)-Acyltransferase. Structure, 2001, 9, 347-353. | 3.3 | 82 |
| 50 | Phosphorylation of a Bifunctional Enzyme, 6-Phosphofructo-2-kinase/fructose-2,6-bisphosphate 2-phosphatase, is Regulated Physiologically and Developmentally in Rosette Leaves of Arabidopsis thaliana. Plant and Cell Physiology, 2001, 42, 1044-1048. | 3.1 | 24 |
| 51 | Plants Synthesize Ethanolamine by Direct Decarboxylation of Serine Using a Pyridoxal Phosphate Enzyme. Journal of Biological Chemistry, 2001, 276, 35523-35529. | 3.4 | 126 |
| 52 | Yeast 1,3-Î²-Glucan Synthase Activity Is Inhibited by Phytosphingosine Localized to the Endoplasmic Reticulum. Journal of Biological Chemistry, 2001, 276, 26923-26930. | 3.4 | 30 |
| 53 | Isolation and RNA Gel Blot Analysis of Genes that Could Serve as Potential Molecular Markers for Leaf Senescence in Arabidopsis thaliana. Plant and Cell Physiology, 2001, 42, 170-178. | 3.1 | 103 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Multiple Signaling Pathways in Gene Expression during Sugar Starvation. Pharmacological Analysis of din Gene Expression in Suspension-Cultured Cells of Arabidopsis. Plant Physiology, 2000, 124, 1139-1148. | 4.8 | 78 |
| 56 | A Second Gene for Acyl-(Acyl-Carrier-Protein): Glycerol-3-Phosphate Acyltransferase in Squash, Cucurbita moschata cv. Shirogikuza*, Codes for an Oleate-Selective Isozyme: Molecular Cloning and Protein Purification Studies. Plant and Cell Physiology, 2000, 41, 1381-1391. | 3.1 | 11 |
| 57 | CHILLING SENSITIVITY IN PLANTS AND CYANOBACTERIA: The Crucial Contribution of Membrane Lipids. Annual Review of Plant Biology, 1996, 47, 541-568. | 14.3 | 556 |
| 58 | Cloning of Brassica napus CTP:phosphocholine cytidylyltransferase cDNAs by complementation in a yeast cct mutant. Plant Molecular Biology, 1996, 31, 205-211. | 3.9 | 35 |
| 59 | Identification of conserved domains in the ?12 desaturases of cyanobacteria. Plant Molecular Biology, 1994, 24, 643-650. | 3.9 | 54 |
| 60 | Expression of mRNA and steady-state levels of protein isoforms of enoyl-ACP reductase from Brassica napus. Plant Molecular Biology, 1994, 26, 155-163. | 3.9 | 33 |
| 61 | Cloning of ?3 desaturase from cyanobacteria and its use in altering the degree of membrane-lipid unsaturation. Plant Molecular Biology, 1994, 26, 249-263. | 3.9 | 89 |
| 62 | The gene and the RNA for the precursor to the plastid-located glycerol-3-phosphate acyltransferase of Arabidopsis thaliana. Plant Molecular Biology, 1993, 21, 267-277. | 3.9 | 90 |
| 63 | Molecular cloning of higher-plant 3-oxoacyl-(acyl carrier protein) reductase. Sequence identities with the nodG-gene product of the nitrogen-fixing soil bacterium Rhizobium meliloti. Biochemical Journal, 1992, 283, 321-326. | 3.7 | 46 |
| 64 | Molecular Biology of Plant Lipids.. Nippon Nogeikagaku Kaishi, 1992, 66, 49-52. | 0.0 | 0 |
| 65 | Acyl-(acyl-carrier protein) hydrolase from squash cotyledons specific to long-chain fatty acids: purification and characterization. Plant Molecular Biology, 1992, 20, 199-206. | 3.9 | 17 |
| 66 | Nucleotide sequence of a cDNA clone encoding a precursor to stearoyl-(acyl-carrier-protein) desaturase from spinach, Spinacia oleracea. Plant Molecular Biology, 1992, 19, 711-713. | 3.9 | 33 |
| 67 | Genetically engineered alteration in the chilling sensitivity of plants. Nature, 1992, 356, 710-713. | 27.8 | 460 |
| 68 | Concentrations of long-chain acyl-acyl carrier proteins during fatty acid synthesis by chloroplasts isolated from pea (Pisum sativum), safflower (Carthamus tinctoris) and amaranthus (Amaranthus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 3.0 | 18 |
| 69 | Spin-label ESR studies of lipid-protein interactions in thylakoid membranes. Biochemistry, 1989, 28, 7446-7452. | 2.5 | 54 |
| 70 | Cloning and nucleotide sequence of cDNA for the plastid glycerol-3-phosphate acyltransferase from squash. FEBS Letters, 1988, 238, 424-430. | 2.8 | 72 |
| 71 | Effect of Thiolactomycin on Fatty Acid Synthesis in Higher Plants. Plant and Cell Physiology, 1987, 28, 851-855. | 3.1 | 7 |
| 72 | Modulation of Fatty Acid Synthesis in Plants by Thiolactomycin. , 1987, , 447-454. | | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Effect of Thiolactomycin on the Individual Enzymes of the Fatty Acid Synthase System in Escherichia coli1. Journal of Biochemistry, 1986, 99, 1447-1454. | 1.7 | 105 |
| 74 | Semisynthesis of a spin-labeled monogalactosyldiacylglycerol and its application to the assay for galactolipid-transfer activity in spinach leaves. Biochimica Et Biophysica Acta - Biomembranes, 1985, 813, 298-306. | 2.6 | 23 |
| 75 | Tris(dialkylamino)sulfonium enolates. Synthesis, structure, and reactions. Journal of the American Chemical Society, 1983, 105, 1598-1608. | 13.7 | 225 |
| 76 | Erythro-selective aldol reaction via tris(dialkylamino)sulfonium enolates. Journal of the American Chemical Society, 1981, 103, 2106-2108. | 13.7 | 162 |
| 77 | A tris(dialkylamino)sulfonium phenoxide. Tetrahedron Letters, 1981, 22, 3993-3996. | 1.4 | 17 |
| 78 | Alkylation via tris(dialkylamino)sulfonium enolates. Tetrahedron Letters, 1980, 21, 2085-2088. | 1.4 | 45 |
| 79 | Tris(dialkylamino)sulfonium enolates. Journal of the American Chemical Society, 1980, 102, 1223-1225. | 13.7 | 115 |
| 80 | Prominent Difference of Glycerolipids among Anther Walls, Pollen Grains and Leaves of Rice and Maize. Plant and Cell Physiology, 0, , . | 3.1 | 3 |