Yukinori Yabuta

List of Publications by Year
in descending order

101	6,212	94433	71685
papers	citations	37 h-index	76 g-index

102	102	102	7141
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Galactinol and Raffinose Constitute a Novel Function to Protect Plants from Oxidative Damage Â Â. Plant Physiology, 2008, 147, 1251-1263.	4.8	888
2	Arabidopsis heat shock transcription factor A2 as a key regulator in response to several types of environmental stress. Plant Journal, 2006, 48, 535-547.	5.7	481
3	Expression of Spinach Ascorbate Peroxidase Isoenzymes in Response to Oxidative Stresses. Plant Physiology, 2000, 123, 223-234.	4.8	326
4	Regulation and function of ascorbate peroxidase isoenzymes. Journal of Experimental Botany, 2002, 53, 1305-19.	4.8	257
5	Light regulation of ascorbate biosynthesis is dependent on the photosynthetic electron transport chain but independent of sugars in Arabidopsis. Journal of Experimental Botany, 2007, 58, 2661-2671.	4.8	220
6	Thylakoid membrane-bound ascorbate peroxidase is a limiting factor of antioxidative systems under photo-oxidative stress. Plant Journal, 2002, 32, 915-925.	5.7	207
7	HsfA1d and HsfA1e Involved in the Transcriptional Regulation of HsfA2 Function as Key Regulators for the Hsf Signaling Network in Response to Environmental Stress. Plant and Cell Physiology, 2011, 52, 933-945.	3.1	204
8	Arabidopsis NAC Transcription Factor, ANAC078, Regulates Flavonoid Biosynthesis under High-light. Plant and Cell Physiology, 2009, 50, 2210-2222.	3.1	197
9	Vitamin B12-Containing Plant Food Sources for Vegetarians. Nutrients, 2014, 6, 1861-1873.	4.1	192
10	H2O2-triggered Retrograde Signaling from Chloroplasts to Nucleus Plays Specific Role in Response to Stress. Journal of Biological Chemistry, 2012, 287, 11717-11729.	3.4	188
11	Arabidopsis Chloroplastic Ascorbate Peroxidase Isoenzymes Play a Dual Role in Photoprotection and Gene Regulation under Photooxidative Stress. Plant and Cell Physiology, 2010, 51, 190-200.	3.1	140
12	Biologically Active Vitamin B₁₂ Compounds in Foods for Preventing Deficiency among Vegetarians and Elderly Subjects. Journal of Agricultural and Food Chemistry, 2013, 61, 6769-6775.	5.2	128
13	The contribution of carbohydrates including raffinose family oligosaccharides and sugar alcohols to protection of plant cells from oxidative damage. Plant Signaling and Behavior, 2008, 3, 1016-1018.	2.4	120
14	Hydroperoxide reduction by thioredoxin-specific glutathione peroxidase isoenzymes of Arabidopsisâ€ƒthaliana. FEBS Journal, 2006, 273, 5589-5597.	4.7	116
15	Differential Expression of Alternatively Spliced mRNAs of Arabidopsis SR Protein Homologs, atSR30 and atSR45a, in Response to Environmental Stress. Plant and Cell Physiology, 2007, 48, 1036-1049.	3.1	116
16	A Bacterial Transgene for Catalase Protects Translation of D1 Protein during Exposure of Salt-Stressed Tobacco Leaves to Strong Light. Plant Physiology, 2007, 145, 258-265.	4.8	98
17	Oral Administration of Paramylon, a .BETA.-1,3-D-Glucan Isolated from Euglena gracilis Z Inhibits Development of Atopic Dermatitis-Like Skin Lesions in NC/Nga Mice. Journal of Veterinary Medical Science, 2010, 72, 755-763.	0.9	96
18	Two Distinct Redox Signaling Pathways for Cytosolic APX Induction under Photooxidative Stress. Plant and Cell Physiology, 2004, 45, 1586-1594.	3.1	95

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19	Arabidopsis Phosphomannose Isomerase 1, but Not Phosphomannose Isomerase 2, Is Essential for Ascorbic Acid Biosynthesis. Journal of Biological Chemistry, 2008, 283, 28842-28851.	3.4	92
20	Identification of a cis Element for Tissue-specific Alternative Splicing of Chloroplast Ascorbate Peroxidase Pre-mRNA in Higher Plants. Journal of Biological Chemistry, 2002, 277, 40623-40632.	3.4	83
21	Arabidopsis NADPH oxidases, AtrbohD and AtrbohF, are essential for jasmonic acid-induced expression of genes regulated by MYC2 transcription factor. Plant Science, 2011, 180, 655-660.	3.6	81
22	Feedback Inhibition of Spinach l-Galactose Dehydrogenase by l-Ascorbate. Plant and Cell Physiology, 2004, 45, 1271-1279.	3.1	73
23	The 26S Proteasome Function and Hsp90 Activity Involved in the Regulation of HsfA2 Expression in Response to Oxidative Stress. Plant and Cell Physiology, 2010, 51, 486-496.	3.1	70
24	Antioxidant Activity of the Phycoerythrobilin Compound Formed from a Dried Korean Purple Laver (Porphyra sp.) during in Vitro Digestion. Food Science and Technology Research, 2010, 16, 347-352.	0.6	68
25	Alternatively spliced mRNA variants of chloroplast ascorbate peroxidase isoenzymes in spinach leaves. Biochemical Journal, 1999, 338, 41-48.	3.7	66
26	Vitamin B12 deficiency results in severe oxidative stress, leading to memory retention impairment in Caenorhabditis elegans. Redox Biology, 2017, 11, 21-29.	9.0	66
27	Hepatoprotective Effects of Paramylon, a .BETA.-1,3-D-Glucan Isolated from Euglena gracilis Z, on Acute Liver Injury Induced by Carbon Tetrachloride in Rats. Journal of Veterinary Medical Science, 2009, 71, 885-890.	0.9	65
28	Vitamin B₁₂ deficiency in Caenorhabditis elegans results in loss of fertility, extended life cycle, and reduced lifespan. FEBS Open Bio, 2013, 3, 112-117.	2.3	65
29	Glutathione peroxidase-like protein of Synechocystis PCC 6803 confers tolerance to oxidative and environmental stresses in transgenic Arabidopsis. Physiologia Plantarum, 2006, 128, 251-262.	5.2	64
30	Regulation and function of ascorbate peroxidase isoenzymes. Journal of Experimental Botany, 2002, 53, 1305-1319.	4.8	60
31	Analysis of the Regulation of Target Genes by anArabidopsisHeat Shock Transcription Factor, HsfA2. Bioscience, Biotechnology and Biochemistry, 2009, 73, 890-895.	1.3	59
32	Molecular Characterization of Tobacco Mitochondrial L-Galactono-Â- Lactone Dehydrogenase and Its Expression in Escherichia coli. Plant and Cell Physiology, 2000, 41, 666-675.	3.1	58
33	The Pathway via D-Galacturonate/L-Galactonate Is Significant for Ascorbate Biosynthesis in Euglena gracilis. Journal of Biological Chemistry, 2008, 283, 31133-31141.	3.4	58
34	The Contribution ofArabidopsisHomologs of<scp>L</scp>-Gulono-1,4-lactone Oxidase to the Biosynthesis of Ascorbic Acid. Bioscience, Biotechnology and Biochemistry, 2010, 74, 1494-1497.	1.3	54
35	Improvement of vitamin E quality and quantity in tobacco and lettuce by chloroplast genetic engineering. Transgenic Research, 2013, 22, 391-402.	2.4	54
36	Crystal Structure of Chloroplastic Ascorbate Peroxidase from Tobacco Plants and Structural Insights into its Instability. Journal of Biochemistry, 2003, 134, 239-244.	1.7	45

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37	Molecular Design of Photosynthesis-Elevated Chloroplasts for Mass Accumulation of a Foreign Protein. Plant and Cell Physiology, 2008, 49, 375-385.	3.1	42
38	Characterization of Vitamin B₁₂ Compounds from Korean Purple Laver (Porphyra) Tj ETQq0 0 0 rgBT /Overlock 10 T	5.2	37
39	Methyladeninylcobamide functions as the cofactor of methionine synthase in a Cyanobacterium, Spirulina platensis NIESâ€39. FEBS Letters, 2010, 584, 3223-3226.	2.8	37
40	Natural variation in the expression and catalytic activity of a naringenin 7â€Oâ€methyltransferase influences antifungal defenses in diverse rice cultivars. Plant Journal, 2020, 101, 1103-1117.	5.7	37
41	Cytosolic ascorbate peroxidase 1 protects organelles against oxidative stress by wounding- and jasmonate-induced H2O2 in Arabidopsis plants. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1901-1907.	2.4	35
42	Carbon metabolism in the Calvin cycle. Plant Biotechnology, 2005, 22, 355-360.	1.0	34
43	Acclimation to Diverse Environmental Stresses Caused by a Suppression of Cytosolic Ascorbate Peroxidase in Tobacco BY-2 cells. Plant and Cell Physiology, 2005, 46, 1264-1271.	3.1	32
44	Analysis of Vitamin B₁₂ in Food by Silica Gel 60 TLC and Bioautography with Vitamin B₁₂-Dependent Escherichia coli 215. Journal of Liquid Chromatography and Related Technologies, 2008, 31, 1977-1985.	1.0	32
45	Distribution of the tryptophan pathway-derived defensive secondary metabolites gramine and benzoxazinones in Poaceae. Bioscience, Biotechnology and Biochemistry, 2017, 81, 431-440.	1.3	31
46	Decline in leaf photooxidative-stress tolerance with age in tobacco. Plant Science, 2005, 168, 1487-1493.	3.6	30
47	Loss of Vitamin B12 in Fish (Round Herring) Meats during Various Cooking Treatments. Journal of Nutritional Science and Vitaminology, 2011, 57, 432-436.	0.6	29
48	Characterization of Vitamin B12 Compounds in the Wild Edible Mushrooms Black Trumpet (Craterellus) Tj ETQq0 0 0 rgBT /Overlock 10 Vitaminology, 2012, 58, 438-441.	0.6	29
49	Characterization and Quantitation of Vitamin B₁₂ Compounds in Various Chlorella Supplements. Journal of Agricultural and Food Chemistry, 2016, 64, 8516-8524.	5.2	29
50	Conversion of<scp>L</scp>-Galactono-1,4-lactone to<scp>L</scp>-Ascorbate Is Regulated by the Photosynthetic Electron Transport Chain inArabidopsis. Bioscience, Biotechnology and Biochemistry, 2008, 72, 2598-2607.	1.3	28
51	Occurrence of Pseudovitamin B12 and Its Possible Function as the Cofactor of Cobalamin-Dependent Methionine Synthase in a Cyanobacterium Synechocystis sp. PCC6803. Journal of Nutritional Science and Vitaminology, 2009, 55, 518-521.	0.6	23
52	Characterization of vitamin B12 compounds in the fruiting bodies of shiitake mushroom (Lentinula) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	23
53	Functional Characterization ofD-Galacturonic Acid Reductase, a Key Enzyme of the Ascorbate Biosynthesis Pathway, fromEuglena gracilis. Bioscience, Biotechnology and Biochemistry, 2006, 70, 2720-2726.	1.3	22
54	Biosynthesis of Phenylamide Phytoalexins in Pathogen-Infected Barley. International Journal of Molecular Sciences, 2019, 20, 5541.	4.1	22

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55	Functions of heat shock transcription factors involved in response to photooxidative stresses in Arabidopsis. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1254-1263.	1.3	21
56	High-dose folic acid supplementation results in significant accumulation of unmetabolized homocysteine, leading to severe oxidative stress in Caenorhabditis elegans. Redox Biology, 2020, 37, 101724.	9.0	21
57	Vitamin B₁₂[c-lactone], a Biologically Inactive Corrinoid Compound, Occurs in Cultured and Dried Lionâ€™s Mane Mushroom (Hericium erinaceus) Fruiting Bodies. Journal of Agricultural and Food Chemistry, 2014, 62, 1726-1732.	5.2	20
58	Alternatively spliced mRNA variants of chloroplast ascorbate peroxidase isoenzymes in spinach leaves. Biochemical Journal, 1999, 338, 41.	3.7	19
59	Involvement of Arabidopsis NAC transcription factor in the regulation of 20S and 26S proteasomes. Plant Science, 2011, 181, 421-427.	3.6	17
60	Generation of transgenic tobacco plants with enhanced tocotrienol levels through the ectopic expression of rice homogentisate geranylgeranyl transferase. Plant Biotechnology, 2015, 32, 233-238.	1.0	17
61	Characterization of methylmalonyl-CoA mutase involved in the propionate photoassimilation of Euglena gracilis Z. Archives of Microbiology, 2010, 192, 437-446.	2.2	16
62	Food Additives (Hypochlorous Acid Water, Sodium Metabisulfite, and Sodium Sulfite) Strongly Affect the Chemical and Biological Properties of Vitamin B₁₂ in Aqueous Solution. ACS Omega, 2020, 5, 6207-6214.	3.5	16
63	Identification of recognition sequence of ANAC078 protein by the cyclic amplification and selection of targets technique. Plant Signaling and Behavior, 2010, 5, 695-697.	2.4	15
64	Identification of vitamin B12 and pseudovitamin B12 from various edible shellfish using liquid chromatographyâ€“electrospray ionization/tandem mass spectrometry. Fisheries Science, 2014, 80, 1065-1071.	1.6	15
65	Transcriptional control of vitamin C defective 2 and tocopherol cyclase genes by light and plastid-derived signals: The partial involvement of GENOMES UNCOUPLED 1. Plant Science, 2015, 231, 20-29.	3.6	13
66	Effects of Vitamin B12 Deficiency on Amyloid-Î² Toxicity in Caenorhabditis elegans. Antioxidants, 2021, 10, 962.	5.1	12
67	Production and Characterization of Cyanocobalamin-Enriched Lettuce (Lactuca sativa L.) Grown Using Hydroponics. Journal of Agricultural and Food Chemistry, 2013, 61, 3852-3858.	5.2	11
68	Yolk of the Century Egg (Pidan) Contains a Readily Digestible Form of Free Vitamin B₁₂. Journal of Nutritional Science and Vitaminology, 2016, 62, 366-371.	0.6	10
69	Variation of diterpenoid phytoalexin oryzalexin A production in cultivated and wild rice. Phytochemistry, 2019, 166, 112057.	2.9	10
70	Induction of defense responses by extracts of spent mushroom substrates in rice. Journal of Pesticide Sciences, 2019, 44, 89-96.	1.4	10
71	Cobalamin deficiency results in an abnormal increase inl-methylmalonyl-co-enzyme-A mutase expression in rat liver and COS-7 cells. British Journal of Nutrition, 2009, 101, 492-498.	2.3	9
72	Eryngase: a Pleurotus eryngii aminopeptidase exhibiting peptide bond formation activity. Applied Microbiology and Biotechnology, 2010, 87, 1791-1801.	3.6	9

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73	Functional and structural characteristics of methylmalonyl-CoA mutase from Pyrococcus horikoshii. Bioscience, Biotechnology and Biochemistry, 2015, 79, 710-717.	1.3	9
74	5-hydroxymethyl-2-furaldehyde purified from Japanese pear (Pyrus pyrifolia Nakai cv. Nijisseiki) juice concentrate inhibits melanogenesis in B16 mouse melanoma cells. Bioscience, Biotechnology and Biochemistry, 2020, 84, 2374-2384.	1.3	9
75	TLC-BIOAUTOGRAPHY ANALYSIS OF VITAMIN B₁₂ COMPOUND FROM THE SHORT-NECKED CLAM (RUDITAPES PHILIPPINARUM) EXTRACT USED AS A FLAVORING. Journal of Liquid Chromatography and Related Technologies, 2010, 33, 972-979.	1.0	8
76	Broth from Canned Clams Is Suitable for Use as an Excellent Source of Free Vitamin B12. Journal of Agricultural and Food Chemistry, 2011, 59, 12054-12058.	5.2	8
77	TLC-ANALYSIS OF A CORRINOID COMPOUND FROM JAPANESE ROCK-OYSTER â€œIWA-GAKIâ€•(CRASSOSTREA) Tj ETQq1 1 0.784	1.0	8
78	Characterization of Corrinoid Compounds from Edible Cyanobacterium Nostochopsis sp.. Journal of Nutritional Science and Vitaminology, 2012, 58, 50-53.	0.6	8
79	Purification and Characterization of Phycobiliproteins from Edible Cyanobacterium Nostochopsis sp.. Food Science and Technology Research, 2012, 18, 485-490.	0.6	8
80	Determination and characterization of vitamin B12 compounds in edible sea snails, ivory shell Babylonia japonica and turban shell Turdo Batillus cornutus. Fisheries Science, 2015, 81, 1105-1111.	1.6	7
81	TLC-Bioautogram Analysis of Vitamin B₁₂ Compounds from Boiled and Dried Japanese Anchovy (Engraulis japonica) Products. Journal of Liquid Chromatography and Related Technologies, 2009, 32, 1175-1182.	1.0	6
82	Characterization of a Corrinoid Compound from Pacific Bluefin Tuna (Thunnus orientalis) Liver. Food Science and Technology Research, 2011, 17, 589-594.	0.6	6
83	Miniaturized HPTLC of Vitamin B12 Compounds in Foods. Chromatographia, 2013, 76, 1333-1337.	1.3	6
84	A lemon myrtle extract inhibits glucosyltransferases activity of Streptococcus mutans. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1584-1590.	1.3	6
85	Crystallization and preliminary X-ray diffraction analysis of chloroplastic ascorbate peroxidase of tobacco plants. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 559-561.	2.5	5
86	Arabidopsis Sgt1a as an important factor for the acquirement of thermotolerance. Plant Science, 2009, 177, 676-681.	3.6	5
87	Characterization of vitamin B12 compounds from the brackish-water bivalve Corbicula japonica. Fisheries Science, 2013, 79, 321-326.	1.6	5
88	A dodecylamine derivative of cyanocobalamin potently inhibits the activities of cobalaminâ€dependent methylmalonylâ€CoA mutase and methionine synthase of Caenorhabditis elegans. FEBS Open Bio, 2014, 4, 722-729.	2.3	5
89	Characterization of Corrinoid Compounds in the Edible Cyanobacterium <i>Nostoc flagelliforme</i> the Hair Vegetable. Food and Nutrition Sciences (Print), 2014, 05, 334-340.	0.4	5
90	Tetrapyrrole Compounds of Cyanobacteria. Studies in Natural Products Chemistry, 2014, 42, 341-351.	1.8	4

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91	Characterization of a Hot Water Extract of an Edible Cyanobacterium Nostochopsis sp. for Use as an Ingredient in Cosmetics. Food Science and Technology Research, 2014, 20, 505-507.	0.6	4
92	L-Ascorbate Biosynthesis Involves Carbon Skeleton Rearrangement in the Nematode Caenorhabditis elegans. Metabolites, 2020, 10, 334.	2.9	4
93	Occurrence of Biologically Inactive Corrinoid Compounds in Canned Edible Apple Snails (Escargots). Food and Nutrition Sciences (Print), 2015, 06, 1071-1077.	0.4	4
94	Dityrosine Crosslinking of Collagen and Amyloid-Î² Peptides Is Formed by Vitamin B12 Deficiency-Generated Oxidative Stress in Caenorhabditis elegans. International Journal of Molecular Sciences, 2021, 22, 12959.	4.1	4
95	Gene cloning and biochemical characterization of eryngase, a serine aminopeptidase of Pleurotus eryngii belonging to the family S9 peptidases. Bioscience, Biotechnology and Biochemistry, 2014, 78, 1856-1863.	1.3	3
96	Involvement of Spermidine in the Reduced Lifespan of Caenorhabditis elegans During Vitamin B12 Deficiency. Metabolites, 2019, 9, 192.	2.9	3
97	Differential Expression of Alternatively Spliced mRNAs of Arabidopsis SR Protein Homologs, atSR30 and atSR45a, in Response to Environmental Stress. Plant and Cell Physiology, 2007, 48, 1826-1826.	3.1	2
98	Lemon myrtle extract inhibits lactate production by Streptococcus mutans. Bioscience, Biotechnology and Biochemistry, 2021, 85, 2185-2190.	1.3	2
99	Characterization of vitamin B12 compound from Japanese common squid liver. Nippon Suisan Gakkaishi, 2012, 78, 749-751.	0.1	1
100	Isolation and Expression of a cDNA Encoding Methylmalonic Aciduria Type A Protein from Euglena gracilis Z. Metabolites, 2013, 3, 144-154.	2.9	1
101	Cycloalliin Inhibits Melanin Biosynthesis in B16 Mouse Melanoma Cells. Food Science and Technology Research, 2018, 24, 627-633.	0.6	1