

# Takanori Maruta

## List of Publications by Year in descending order

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63  
papers

3,345  
citations

182225

30  
h-index

169272

56  
g-index

64  
all docs

64  
docs citations

64  
times ranked

4356  
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of ascorbate metabolism by nitrogen starvation and its physiological impacts in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2022, 86, 476-489.	0.6	6
2	Analysis of Ascorbate Metabolism in <i>Arabidopsis</i> Under High-Light Stress. <i>Methods in Molecular Biology</i> , 2022, , 15-24.	0.4	2
3	Cooperation of chloroplast ascorbate peroxidases and proton gradient regulation 5 is critical for protecting <i>Arabidopsis</i> plants from photooxidative stress. <i>Plant Journal</i> , 2021, 107, 876-892.	2.8	15
4	The <i>d</i> -mannose/ <i>l</i> -galactose pathway is the dominant ascorbate biosynthetic route in the moss <i>Physcomitrium patens</i> . <i>Plant Journal</i> , 2021, 107, 1724-1738.	2.8	14
5	Distribution and Functions of Monodehydroascorbate Reductases in Plants: Comprehensive Reverse Genetic Analysis of <i>Arabidopsis thaliana</i> Enzymes. <i>Antioxidants</i> , 2021, 10, 1726.	2.2	13
6	GOLVEN peptide signalling through RGI receptors and MPK6 restricts asymmetric cell division during lateral root initiation. <i>Nature Plants</i> , 2020, 6, 533-543.	4.7	39
7	Dehydroascorbate Reductases and Glutathione Set a Threshold for High-Light-Induced Ascorbate Accumulation. <i>Plant Physiology</i> , 2020, 183, 112-122.	2.3	32
8	A major isoform of mitochondrial trans-2-enoyl-CoA reductase is dispensable for wax ester production in <i>Euglena gracilis</i> under anaerobic conditions. <i>PLoS ONE</i> , 2019, 14, e0210755.	1.1	13
9	Chloroplast development activates the expression of ascorbate biosynthesis-associated genes in <i>Arabidopsis</i> roots. <i>Plant Science</i> , 2019, 284, 185-191.	1.7	16
10	Comparative proteomic analysis of mitochondria isolated from <i>Euglena gracilis</i> under aerobic and hypoxic conditions. <i>PLoS ONE</i> , 2019, 14, e0227226.	1.1	5
11	Ascorbate Peroxidase Functions in Higher Plants: The Control of the Balance Between Oxidative Damage and Signaling. , 2018, , 41-59.		8
12	Biosynthesis and Regulation of Ascorbic Acid in Plants. , 2018, , 163-179.		18
13	Glucan synthase-like 2 is indispensable for paramylon synthesis in <i>Euglena gracilis</i> . <i>FEBS Letters</i> , 2017, 591, 1360-1370.	1.3	43
14	Biochemistry and Physiology of Reactive Oxygen Species in <i>Euglena</i> . <i>Advances in Experimental Medicine and Biology</i> , 2017, 979, 47-64.	0.8	7
15	Wax Ester Synthase/Diacylglycerol Acyltransferase Isoenzymes Play a Pivotal Role in Wax Ester Biosynthesis in <i>Euglena gracilis</i> . <i>Scientific Reports</i> , 2017, 7, 13504.	1.6	35
16	Ascorbate Peroxidases: Crucial Roles of Antioxidant Enzymes in Plant Stress Responses. , 2017, , 111-127.		3
17	<i>Arabidopsis</i> clade IV TGA transcription factors, TGA10 and TGA9, are involved in ROS-mediated responses to bacterial PAMP flg22. <i>Plant Science</i> , 2016, 252, 12-21.	1.7	46
18	De novo assembly and comparative transcriptome analysis of <i>Euglena gracilis</i> in response to anaerobic conditions. <i>BMC Genomics</i> , 2016, 17, 182.	1.2	78

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19	Loss-of-function of an Arabidopsis NADPH pyrophosphohydrolase, AtNUDX19, impacts on the pyridine nucleotides status and confers photooxidative stress tolerance. <i>Scientific Reports</i> , 2016, 6, 37432.	1.6	13
20	Redox regulation of ascorbate and glutathione by a chloroplastic dehydroascorbate reductase is required for high-light stress tolerance in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 870-877.	0.6	51
21	Diversity and Evolution of Ascorbate Peroxidase Functions in Chloroplasts: More Than Just a Classical Antioxidant Enzyme?. <i>Plant and Cell Physiology</i> , 2016, 57, pcv203.	1.5	83
22	Enhancement of photosynthetic capacity in <i>Euglena gracilis</i> by expression of cyanobacterial fructose-1,6-/sedoheptulose-1,7-bisphosphatase leads to increases in biomass and wax ester production. <i>Biotechnology for Biofuels</i> , 2015, 8, 80.	6.2	87
23	Identification and characterization of <i>Arabidopsis</i> AtNUDX9 as a GDP-d-mannose pyrophosphohydrolase: its involvement in root growth inhibition in response to ammonium. <i>Journal of Experimental Botany</i> , 2015, 66, 5797-5808.	2.4	17
24	A gain-of-function mutation of plastidic invertase alters nuclear gene expression with sucrose treatment partially via GENOMES UNCOUPLED 1-mediated signaling. <i>New Phytologist</i> , 2015, 206, 1013-1023.	3.5	13
25	Biochemical and physiological analyses of NADPH-dependent thioredoxin reductase isozymes in <i>Euglena gracilis</i> . <i>Plant Science</i> , 2015, 236, 29-36.	1.7	12
26	Transcriptional control of vitamin C defective 2 and tocopherol cyclase genes by light and plastid-derived signals: The partial involvement of GENOMES UNCOUPLED 1. <i>Plant Science</i> , 2015, 231, 20-29.	1.7	13
27	Transient expression analysis revealed the importance of <i>VTC2</i> expression level in light/dark regulation of ascorbate biosynthesis in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 60-66.	0.6	51
28	Cellular redox regulation, signaling, and stress response in plants. <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 1457-1470.	0.6	68
29	Identification and functional analysis of peroxiredoxin isoforms in <i>Euglena gracilis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2014, 78, 593-601.	0.6	11
30	Ferulic acid 5-hydroxylase 1 is essential for expression of anthocyanin biosynthesis-associated genes and anthocyanin accumulation under photooxidative stress in <i>Arabidopsis</i> . <i>Plant Science</i> , 2014, 219-220, 61-68.	1.7	33
31	Improvement of vitamin E quality and quantity in tobacco and lettuce by chloroplast genetic engineering. <i>Transgenic Research</i> , 2013, 22, 391-402.	1.3	54
32	Activation of $\hat{1}^3$ -Aminobutyrate Production by Chloroplastic H <sub>2</sub> O <sub>2</sub> Is Associated with the Oxidative Stress Response. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 422-425.	0.6	12
33	Regulation of the Carbon and Nitrogen Balance by a Plastidic Invertase in <i>Arabidopsis</i> . <i>Advanced Topics in Science and Technology in China</i> , 2013, , 344-347.	0.0	0
34	Translocation and the alternative D-galacturonate pathway contribute to increasing the ascorbate level in ripening tomato fruits together with the D-mannose/L-galactose pathway. <i>Journal of Experimental Botany</i> , 2012, 63, 229-239.	2.4	144
35	Subcellular and Subnuclear Distribution of High-Light Responsive Serine/Arginine-Rich Proteins, atSR45a and atSR30, in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2075-2081.	0.6	9
36	The Involvement of <i>Arabidopsis</i> Glutathione Peroxidase 8 in the Suppression of Oxidative Damage in the Nucleus and Cytosol. <i>Plant and Cell Physiology</i> , 2012, 53, 1596-1606.	1.5	75

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37	A Comparative Analysis of the Molecular Characteristics of the Arabidopsis CoA Pyrophosphohydrolases AtNUDX11, 15, and 15a. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 139-147.	0.6	13
38	Enzymatic and Molecular Characterization of Arabidopsis ppGpp Pyrophosphohydrolase, AtNUDX26. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2236-2241.	0.6	32
39	Relationship between chloroplastic H <sub>2</sub> O <sub>2</sub> and the salicylic acid response. <i>Plant Signaling and Behavior</i> , 2012, 7, 944-946.	1.2	23
40	Cytosolic ascorbate peroxidase 1 protects organelles against oxidative stress by wounding- and jasmonate-induced H <sub>2</sub> O <sub>2</sub> in Arabidopsis plants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1901-1907.	1.1	35
41	H <sub>2</sub> O <sub>2</sub> -triggered Retrograde Signaling from Chloroplasts to Nucleus Plays Specific Role in Response to Stress. <i>Journal of Biological Chemistry</i> , 2012, 287, 11717-11729.	1.6	188
42	An Arabidopsis FAD Pyrophosphohydrolase, AtNUDX23, is Involved in Flavin Homeostasis. <i>Plant and Cell Physiology</i> , 2012, 53, 1106-1116.	1.5	28
43	Arabidopsis NADPH oxidases, AtrbohD and AtrbohF, are essential for jasmonic acid-induced expression of genes regulated by MYC2 transcription factor. <i>Plant Science</i> , 2011, 180, 655-660.	1.7	81
44	Involvement of Arabidopsis NAC transcription factor in the regulation of 20S and 26S proteasomes. <i>Plant Science</i> , 2011, 181, 421-427.	1.7	17
45	Increase in the activity of fructose-1,6-bisphosphatase in cytosol affects sugar partitioning and increases the lateral shoots in tobacco plants at elevated CO <sub>2</sub> levels. <i>Photosynthesis Research</i> , 2011, 108, 15-23.	1.6	15
46	Expression Analysis of the <i>VTC2</i> and <i>VTC5</i> Genes Encoding GDP-Galactose Phosphorylase, an Enzyme Involved in Ascorbate Biosynthesis, in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1783-1788.	0.6	40
47	Identification of Alternative Splicing Events Regulated by an Arabidopsis Serine/Arginine-Like Protein, atSR45a, in Response to High-Light Stress using a Tiling Array. <i>Plant and Cell Physiology</i> , 2011, 52, 1786-1805.	1.5	29
48	HsfA1d and HsfA1e Involved in the Transcriptional Regulation of HsfA2 Function as Key Regulators for the Hsf Signaling Network in Response to Environmental Stress. <i>Plant and Cell Physiology</i> , 2011, 52, 933-945.	1.5	204
49	Expression of aspartyl protease and C3HC4-type RING zinc finger genes are responsive to ascorbic acid in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2011, 62, 3647-3657.	2.4	27
50	The Contribution of <i>Arabidopsis</i> Homologs of <i>L-Gulonolactone Oxidase</i> to the Biosynthesis of Ascorbic Acid. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1494-1497.	0.6	54
51	Point Mutation of a Plastidic Invertase Inhibits Development of the Photosynthetic Apparatus and Enhances Nitrate Assimilation in Sugar-treated Arabidopsis Seedlings. <i>Journal of Biological Chemistry</i> , 2010, 285, 15399-15407.	1.6	32
52	Identification of recognition sequence of ANAC078 protein by the cyclic amplification and selection of targets technique. <i>Plant Signaling and Behavior</i> , 2010, 5, 695-697.	1.2	15
53	Generation of transplastomic lettuce with enhanced growth and high yield. <i>GM Crops</i> , 2010, 1, 322-326.	1.8	41
54	New insights into the regulation of greening and carbon-nitrogen balance by sugar metabolism through a plastidic invertase. <i>Plant Signaling and Behavior</i> , 2010, 5, 1131-1133.	1.2	12

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55	Arabidopsis Chloroplastic Ascorbate Peroxidase Isoenzymes Play a Dual Role in Photoprotection and Gene Regulation under Photooxidative Stress. <i>Plant and Cell Physiology</i> , 2010, 51, 190-200.	1.5	140
56	Arabidopsis NAC Transcription Factor, ANAC078, Regulates Flavonoid Biosynthesis under High-light. <i>Plant and Cell Physiology</i> , 2009, 50, 2210-2222.	1.5	197
57	Conversion of L-Galactono-1,4-lactone to L-Ascorbate Is Regulated by the Photosynthetic Electron Transport Chain in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 2598-2607.	0.6	28
58	Arabidopsis Phosphomannose Isomerase 1, but Not Phosphomannose Isomerase 2, Is Essential for Ascorbic Acid Biosynthesis. <i>Journal of Biological Chemistry</i> , 2008, 283, 28842-28851.	1.6	92
59	The Pathway via D-Galacturonate/L-Galactonate Is Significant for Ascorbate Biosynthesis in <i>Euglena gracilis</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 31133-31141.	1.6	58
60	Light regulation of ascorbate biosynthesis is dependent on the photosynthetic electron transport chain but independent of sugars in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2007, 58, 2661-2671.	2.4	220
61	Arabidopsis heat shock transcription factor A2 as a key regulator in response to several types of environmental stress. <i>Plant Journal</i> , 2006, 48, 535-547.	2.8	481
62	Two Distinct Redox Signaling Pathways for Cytosolic APX Induction under Photooxidative Stress. <i>Plant and Cell Physiology</i> , 2004, 45, 1586-1594.	1.5	95
63	How does light facilitate vitamin C biosynthesis in leaves?. <i>Bioscience, Biotechnology and Biochemistry</i> , 0, , .	0.6	8