

# Junâ€ichi Mano

## List of Publications by Year in descending order

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54  
papers

2,894  
citations

172207

29  
h-index

168136

53  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive carbonyl species: Their production from lipid peroxides, action in environmental stress, and the detoxification mechanism. <i>Plant Physiology and Biochemistry</i> , 2012, 59, 90-97.	2.8	194
2	Protection against Photooxidative Injury of Tobacco Leaves by 2-Alkenal Reductase. Detoxication of Lipid Peroxide-Derived Reactive Carbonyls. <i>Plant Physiology</i> , 2005, 139, 1773-1783.	2.3	139
3	Chloroplastic ascorbate peroxidase is the primary target of methylviologen-induced photooxidative stress in spinach leaves: its relevance to monodehydroascorbate radical detected with in vivo ESR. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2001, 1504, 275-287.	0.5	137
4	Differential Metabolisms of Green Leaf Volatiles in Injured and Intact Parts of a Wounded Leaf Meet Distinct Ecophysiological Requirements. <i>PLoS ONE</i> , 2012, 7, e36433.	1.1	135
5	The NADPH:Quinone Oxidoreductase P1-Î¶-crystallin in Arabidopsis Catalyzes the Î±,Î²-Hydrogenation of 2-Alkenals: Detoxication of the Lipid Peroxide-Derived Reactive Aldehydes. <i>Plant and Cell Physiology</i> , 2002, 43, 1445-1455.	1.5	134
6	Thioredoxin Deficiency Causes the Constitutive Activation of Yap1, an AP-1-like Transcription Factor in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1999, 274, 28459-28465.	1.6	128
7	Lipid Peroxide-Derived Short-Chain Carbonyls Mediate Hydrogen Peroxide-Induced and Salt-Induced Programmed Cell Death in Plants. <i>Plant Physiology</i> , 2015, 168, 885-898.	2.3	128
8	The Involvement of Lipid Peroxide-Derived Aldehydes in Aluminum Toxicity of Tobacco Roots. <i>Plant Physiology</i> , 2010, 152, 1406-1417.	2.3	124
9	Importance of glucose-6-phosphate dehydrogenase in the adaptive response to hydrogen peroxide in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , 1998, 330, 811-817.	1.7	109
10	Reduction of Phenoxyl Radicals Mediated by Monodehydroascorbate Reductase. <i>Biochemical and Biophysical Research Communications</i> , 2000, 279, 949-954.	1.0	97
11	Lipid peroxidation-derived reactive carbonyl species (RCS): Their interaction with ROS and cellular redox during environmental stresses. <i>Environmental and Experimental Botany</i> , 2019, 165, 139-149.	2.0	92
12	Evaluation of the toxicity of stress-related aldehydes to photosynthesis in chloroplasts. <i>Planta</i> , 2009, 230, 639-648.	1.6	89
13	Monodehydroascorbate Radical Detected by Electron Paramagnetic Resonance Spectrometry Is a Sensitive Probe of Oxidative Stress in Intact Leaves. <i>Plant and Cell Physiology</i> , 1996, 37, 1066-1072.	1.5	84
14	Maintenance of Chloroplast Structure and Function by Overexpression of the Rice <i>MONOGALACTOSYLDIACYLGLYCEROL SYNTHASE</i> Gene Leads to Enhanced Salt Tolerance in Tobacco. <i>Plant Physiology</i> , 2014, 165, 1144-1155.	2.3	82
15	Ascorbate in thylakoid lumen functions as an alternative electron donor to photosystem II and photosystem I. <i>Archives of Biochemistry and Biophysics</i> , 2004, 429, 71-80.	1.4	79
16	Reactive Carbonyl Species: A Missing Link in ROS Signaling. <i>Plants</i> , 2019, 8, 391.	1.6	77
17	Identification of Oxidatively Modified Proteins in Salt-Stressed Arabidopsis: A Carbonyl-Targeted Proteomics Approach. <i>Plant and Cell Physiology</i> , 2014, 55, 1233-1244.	1.5	69
18	Increased Levels of Monodehydroascorbate Radical in UV-B-Irradiated Broad Bean Leaves. <i>Plant and Cell Physiology</i> , 1997, 38, 684-690.	1.5	62

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19	High level of reduced glutathione contributes to detoxification of lipid peroxideâ€derived reactive carbonyl species in transgenic Arabidopsis overexpressing glutathione reductase under aluminum stress. <i>Physiologia Plantarum</i> , 2017, 161, 211-223.	2.6	56
20	Differential electron flow around photosystem I by two C4-photosynthetic-cell-specific ferredoxins. <i>EMBO Journal</i> , 2000, 19, 5041-5050.	3.5	54
21	Reactive oxygen species and reactive carbonyl species constitute a feedâ€forward loop in auxin signaling for lateral root formation. <i>Plant Journal</i> , 2019, 100, 536-548.	2.8	53
22	Title is missing!. <i>Photosynthesis Research</i> , 1997, 53, 197-204.	1.6	50
23	Reactive Carbonyl Species Activate Caspase-3-Like Protease to Initiate Programmed Cell Death in Plants. <i>Plant and Cell Physiology</i> , 2016, 57, pcw053.	1.5	50
24	Accumulation of lipid peroxide-derived, toxic .ALPHA.,.BETA.-unsaturated aldehydes (E)-2-pentenal, acrolein and (E)-2-hexenal in leaves under photoinhibitory illumination. <i>Plant Biotechnology</i> , 2010, 27, 193-197.	0.5	49
25	A novel NADPH:diamide oxidoreductase activity in Arabidopsis thaliana P1 Î¶-crystallin. <i>FEBS Journal</i> , 2000, 267, 3661-3671.	0.2	43
26	Characterization of raspberry ketone/zingerone synthase, catalyzing the alpha, beta-hydrogenation of phenylbutenones in raspberry fruits. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 104-108.	1.0	42
27	Reactive Carbonyl Species Mediate ABA Signaling in Guard Cells. <i>Plant and Cell Physiology</i> , 2016, 57, 2552-2563.	1.5	42
28	Reactive Carbonyl Species Function as Signal Mediators Downstream of H2O2 Production and Regulate [Ca2+]cyt Elevation in ABA Signal Pathway in Arabidopsis Guard Cells. <i>Plant and Cell Physiology</i> , 2019, 60, 1146-1159.	1.5	39
29	Detoxification of Reactive Carbonyl Species by Glutathione Transferase Tau Isozymes. <i>Frontiers in Plant Science</i> , 2019, 10, 487.	1.7	38
30	Photoproduction of Catalase-Insensitive Peroxides on the Donor Side of Manganese-Depleted Photosystem II: Evidence with a Specific Fluorescent Probe. <i>Biochemistry</i> , 2011, 50, 10658-10665.	1.2	30
31	Lipid Peroxide-Derived Reactive Carbonyl Species as Mediators of Oxidative Stress and Signaling. <i>Frontiers in Plant Science</i> , 2021, 12, 720867.	1.7	30
32	Effects of fat crystallization on the behavior of proteins and lipids at oil droplet surfaces. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 183-188.	0.8	28
33	Purification and Properties of a Monofunctional Imidazoleglycerol-Phosphate Dehydratase from Wheat. <i>Plant Physiology</i> , 1993, 103, 733-739.	2.3	24
34	Catechins in green tea powder (matcha) are heat-stable scavengers of acrolein, a lipid peroxide-derived reactive carbonyl species. <i>Food Chemistry</i> , 2021, 355, 129403.	4.2	24
35	Acrolein is formed from trienoic fatty acids in chloroplast: A targeted metabolomics approach. <i>Plant Biotechnology</i> , 2014, 31, 535-543.	0.5	23
36	Steady-State Kinetics of Cabbage Histidinol Dehydrogenase. <i>Archives of Biochemistry and Biophysics</i> , 1994, 312, 493-500.	1.4	21

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37	Photoproduction of the Azidyl Radical from the Azide Anion on the Oxidizing Side of Photosystem II and Suppression of Photooxidation of Tyrosine Z by the Azidyl Radical. <i>Plant and Cell Physiology</i> , 1995, 36, 1121-1129.	1.5	21
38	Reactive Carbonyl Species Mediate Methyl Jasmonate-Induced Stomatal Closure. <i>Plant and Cell Physiology</i> , 2020, 61, 1788-1797.	1.5	21
39	Volatile Oxylipins and Related Compounds Formed Under Stress in Plants. , 2009, 580, 17-28.		19
40	Plant apocarotenoid metabolism utilizes defense mechanisms against reactive carbonyl species and xenobiotics. <i>Plant Physiology</i> , 2021, 185, 331-351.	2.3	19
41	Overexpression of plant histidinol dehydrogenase using a baculovirus expression vector system. <i>Archives of Biochemistry and Biophysics</i> , 1992, 295, 235-239.	1.4	16
42	Antioxidant capacity is correlated with susceptibility to leaf spot caused by a rapid temperature drop in <i>Saintpaulia</i> (African violet). <i>Scientia Horticulturae</i> , 2001, 88, 59-69.	1.7	16
43	<i>Arabidopsis</i> aldehyde oxidase 3, known to oxidize abscisic aldehyde to abscisic acid, protects leaves from aldehyde toxicity. <i>Plant Journal</i> , 2021, 108, 1439-1455.	2.8	16
44	Inhibition of the catalase reaction of Photosystem II by anions. <i>Photosynthesis Research</i> , 1993, 38, 433-440.	1.6	15
45	Acrolein-detoxifying isozymes of glutathione transferase in plants. <i>Planta</i> , 2017, 245, 255-264.	1.6	15
46	Analysis of Reactive Carbonyl Species Generated Under Oxidative Stress. <i>Methods in Molecular Biology</i> , 2018, 1743, 117-124.	0.4	14
47	Inactivation of Carbonyl-Detoxifying Enzymes by H <sub>2</sub> O <sub>2</sub> Is a Trigger to Increase Carbonyl Load for Initiating Programmed Cell Death in Plants. <i>Antioxidants</i> , 2020, 9, 141.	2.2	14
48	Participation of the Superoxide Radical in the Beneficial Effect of Ascorbic Acid on Heat-induced Fish Meat Gel (Kamaboko). <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 1966-1970.	0.6	12
49	Characterization of rabbit aldose reductase-like protein with 3Î²-hydroxysteroid dehydrogenase activity. <i>Archives of Biochemistry and Biophysics</i> , 2012, 527, 23-30.	1.4	10
50	Photoinactivation of Photosystem II by in situ-Photoproduced Hydroxyurea Radicals. <i>Biochemistry</i> , 1994, 33, 10487-10493.	1.2	9
51	How do photosynthetic organisms manage light stress? A tribute to the late Professor Kozi Asada. <i>Plant and Cell Physiology</i> , 2016, 57, 1351-1353.	1.5	8
52	Crystallization and preliminary X-ray crystallographic analysis of NADPH: azodicarbonyl/quinone oxidoreductase, a plant Î¶-crystallin. <i>BBA - Proteins and Proteomics</i> , 2000, 1480, 374-376.	2.1	5
53	Seed deterioration due to high humidity at high temperature is suppressed by extremely low frequency magnetic fields. <i>Seed Science and Technology</i> , 2006, 34, 189-192.	0.6	4
54	Modulation of activity and inhibitor sensitivity of rabbit aldose reductase-like protein (AKR1B19) by oxidized glutathione and SH-reagents. <i>Chemico-Biological Interactions</i> , 2013, 202, 146-152.	1.7	2