

Marcia Margis-Pinheiro

List of Publications by Year in descending order

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120
papers

6,451
citations

57719

44
h-index

74108

75
g-index

124
all docs

124
docs citations

124
times ranked

8132
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant responses to stresses: role of ascorbate peroxidase in the antioxidant protection. <i>Genetics and Molecular Biology</i> , 2012, 35, 1011-1019.	0.6	515
2	Glutathione peroxidase family – an evolutionary overview. <i>FEBS Journal</i> , 2008, 275, 3959-3970.	2.2	400
3	Interactions between plant hormones and heavy metals responses. <i>Genetics and Molecular Biology</i> , 2017, 40, 373-386.	0.6	325
4	Rice ascorbate peroxidase gene family encodes functionally diverse isoforms localized in different subcellular compartments. <i>Planta</i> , 2006, 224, 300-314.	1.6	199
5	PeroxiBase: The peroxidase database. <i>Phytochemistry</i> , 2007, 68, 1605-1611.	1.4	187
6	Heavy metal-associated isoprenylated plant protein (<sc>HIPP</sc>): characterization of a family of proteins exclusive to plants. <i>FEBS Journal</i> , 2013, 280, 1604-1616.	2.2	187
7	Evolutionary view of acyl-CoA diacylglycerol acyltransferase (DGAT), a key enzyme in neutral lipid biosynthesis. <i>BMC Evolutionary Biology</i> , 2011, 11, 263.	3.2	174
8	Analysis of the Molecular Evolutionary History of the Ascorbate Peroxidase Gene Family: Inferences from the Rice Genome. <i>Journal of Molecular Evolution</i> , 2004, 59, 761-770.	0.8	158
9	Succinate dehydrogenase (mitochondrial complex <sc>II</sc>) is a source of reactive oxygen species in plants and regulates development and stress responses. <i>New Phytologist</i> , 2015, 208, 776-789.	3.5	129
10	Functional characterization of the rice kaurene synthase-like gene family. <i>Phytochemistry</i> , 2007, 68, 312-326.	1.4	124
11	New Insights into Aluminum Tolerance in Rice: The ASR5 Protein Binds the STAR1 Promoter and Other Aluminum-Responsive Genes. <i>Molecular Plant</i> , 2014, 7, 709-721.	3.9	117
12	Cytosolic APx knockdown indicates an ambiguous redox responses in rice. <i>Phytochemistry</i> , 2010, 71, 548-558.	1.4	115
13	Bean cyclophilin gene expression during plant development and stress conditions. <i>Plant Molecular Biology</i> , 1994, 26, 1181-1189.	2.0	112
14	The mitochondrial glutathione peroxidase GPX3 is essential for H ₂ O ₂ homeostasis and root and shoot development in rice. <i>Plant Science</i> , 2013, 208, 93-101.	1.7	110
15	Salt stress induces altered expression of genes encoding antioxidant enzymes in seedlings of a Brazilian indica rice (<i>Oryza sativa</i> L.). <i>Plant Science</i> , 2004, 166, 323-331.	1.7	106
16	Role of peroxidases in the compensation of cytosolic ascorbate peroxidase knockdown in rice plants under abiotic stress. <i>Plant, Cell and Environment</i> , 2011, 34, 1705-1722.	2.8	106
17	Prokaryotic origins of the non-animal peroxidase superfamily and organelle-mediated transmission to eukaryotes. <i>Genomics</i> , 2007, 89, 567-579.	1.3	100
18	The effects of redox controls mediated by glutathione peroxidases on root architecture in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2014, 65, 1403-1413.	2.4	97

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19	Glutathione peroxidases as redox sensor proteins in plant cells. <i>Plant Science</i> , 2015, 234, 22-26.	1.7	92
20	Involvement of <i>ASR</i> genes in aluminium tolerance mechanisms in rice. <i>Plant, Cell and Environment</i> , 2013, 36, 52-67.	2.8	86
21	Aluminum triggers broad changes in microRNA expression in rice roots. <i>Genetics and Molecular Research</i> , 2011, 10, 2817-2832.	0.3	85
22	Reference genes for transcriptional analysis of flowering and fruit ripening stages in apple (<i>Malus domestica</i> Borkh.). <i>Molecular Breeding</i> , 2014, 34, 829-842.	1.0	83
23	Small heat shock proteins genes are differentially expressed in distinct varieties of common bean. <i>Brazilian Journal of Plant Physiology</i> , 2003, 15, 33-41.	0.5	82
24	Biosynthesis of Triacylglycerols (TAGs) in Plants and algae. <i>International Journal of Plant Biology</i> , 2011, 2, e10.	1.1	81
25	The knockdown of chloroplastic ascorbate peroxidases reveals its regulatory role in the photosynthesis and protection under photo-oxidative stress in rice. <i>Plant Science</i> , 2014, 214, 74-87.	1.7	81
26	Possible roles of basic helix-loop-helix transcription factors in adaptation to drought. <i>Plant Science</i> , 2014, 223, 1-7.	1.7	81
27	Genome-wide annotation of the soybean WRKY family and functional characterization of genes involved in response to <i>Phakopsora pachyrhizi</i> infection. <i>BMC Plant Biology</i> , 2014, 14, 236.	1.6	79
28	<i>Arabidopsis thaliana</i> class IV chitinase is early induced during the interaction with <i>Xanthomonas campestris</i> . <i>FEBS Letters</i> , 1997, 419, 69-75.	1.3	77
29	Rice <i>ASR1</i> and <i>ASR5</i> are complementary transcription factors regulating aluminium responsive genes. <i>Plant, Cell and Environment</i> , 2016, 39, 645-651.	2.8	75
30	Isolation of a complementary DNA encoding the bean PR4 chitinase: an acidic enzyme with an amino-terminus cysteine-rich domain. <i>Plant Molecular Biology</i> , 1991, 17, 243-253.	2.0	71
31	Rice peroxisomal ascorbate peroxidase knockdown affects ROS signaling and triggers early leaf senescence. <i>Plant Science</i> , 2017, 263, 55-65.	1.7	71
32	The evolution of pyrroline-5-carboxylate synthase in plants: a key enzyme in proline synthesis. <i>Molecular Genetics and Genomics</i> , 2009, 281, 87-97.	1.0	68
33	Salt-induced antioxidant metabolism defenses in maize (<i>Zea mays</i> L.) seedlings. <i>Redox Report</i> , 2004, 9, 29-36.	1.4	64
34	Isolation and characterization of a Ds-tagged rice (<i>Oryza sativa</i> L.) GA-responsive dwarf mutant defective in an early step of the gibberellin biosynthesis pathway. <i>Plant Cell Reports</i> , 2005, 23, 819-833.	2.8	61
35	Identifying Conserved and Novel MicroRNAs in Developing Seeds of <i>Brassica napus</i> Using Deep Sequencing. <i>PLoS ONE</i> , 2012, 7, e50663.	1.1	61
36	The Wall-associated Kinase gene family in rice genomes. <i>Plant Science</i> , 2014, 229, 181-192.	1.7	59

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37	Ascorbate peroxidase-related (APxâ€R) is a new hemeâ€containing protein functionally associated with ascorbate peroxidase but evolutionarily divergent. <i>New Phytologist</i> , 2011, 191, 234-250.	3.5	57
38	Differential Transcriptional Profiles of Dormancy-Related Genes in Apple Buds. <i>Plant Molecular Biology Reporter</i> , 2014, 32, 796-813.	1.0	51
39	Molecular evolution of the lysophosphatidic acid acyltransferase (LPAAT) gene family. <i>Molecular Phylogenetics and Evolution</i> , 2016, 96, 55-69.	1.2	51
40	The MADS-box gene <i>Agamous-like 11</i> is essential for seed morphogenesis in grapevine. <i>Journal of Experimental Botany</i> , 2017, 68, 1493-1506.	2.4	51
41	Identification of differentially expressed genes by cDNA-AFLP technique during heat stress in cowpea nodules. <i>FEBS Letters</i> , 2002, 515, 44-50.	1.3	50
42	Genome-wide analysis of the Glycerol-3-Phosphate Acyltransferase (GPAT) gene family reveals the evolution and diversification of plant GPATs. <i>Genetics and Molecular Biology</i> , 2018, 41, 355-370.	0.6	48
43	Programmed cell death (PCD) control in plants: New insights from the <i>Arabidopsis thaliana</i> deathosome. <i>Plant Science</i> , 2020, 299, 110603.	1.7	48
44	Identification and expression analysis of castor bean (<i>Ricinus communis</i>) genes encoding enzymes from the triacylglycerol biosynthesis pathway. <i>Plant Science</i> , 2010, 179, 499-509.	1.7	47
45	Even population differentiation for maternal and biparental gene markers in <i>Eugenia uniflora</i> , a widely distributed species from the Brazilian coastal Atlantic rain forest. <i>Diversity and Distributions</i> , 2004, 10, 201-210.	1.9	46
46	Expression of an osmotin-like protein from <i>Solanum nigrum</i> confers drought tolerance in transgenic soybean. <i>BMC Plant Biology</i> , 2014, 14, 343.	1.6	45
47	Differential expression of bean chitinase genes by virus infection, chemical treatment and UV irradiation. <i>Plant Molecular Biology</i> , 1993, 22, 659-668.	2.0	42
48	Identification and in silico characterization of soybean trihelix-GT and bHLH transcription factors involved in stress responses. <i>Genetics and Molecular Biology</i> , 2012, 35, 233-246.	0.6	42
49	Large-scale phylogeography of the disjunct Neotropical tree species <i>Schizolobium parahyba</i> (Fabaceae-Caesalpinioideae). <i>Molecular Phylogenetics and Evolution</i> , 2012, 65, 174-182.	1.2	40
50	PeroxiBase: a powerful tool to collect and analyse peroxidase sequences from Viridiplantae. <i>Journal of Experimental Botany</i> , 2009, 60, 453-459.	2.4	39
51	Peroxisomal <i>APX</i> knockdown triggers antioxidant mechanisms favourable for coping with high photorespiratory H_2O_2 induced by <i>CAT</i> deficiency in rice. <i>Plant, Cell and Environment</i> , 2015, 38, 499-513.	2.8	36
52	Identifying MicroRNAs and Transcript Targets in <i>Jatropha</i> Seeds. <i>PLoS ONE</i> , 2014, 9, e83727.	1.1	35
53	Phytoalpins: orthologous calcium-dependent cysteine proteinases. <i>Trends in Plant Science</i> , 2003, 8, 58-62.	4.3	34
54	Diversity and evolution of plant diacylglycerol acyltransferase (DGATs) unveiled by phylogenetic, gene structure and expression analyses. <i>Genetics and Molecular Biology</i> , 2016, 39, 524-538.	0.6	34

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55	Silenced rice in both cytosolic ascorbate peroxidases displays pre-acclimation to cope with oxidative stress induced by 3-aminotriazole-inhibited catalase. <i>Journal of Plant Physiology</i> , 2016, 201, 17-27.	1.6	34
56	Mitochondrial GPX1 silencing triggers differential photosynthesis impairment in response to salinity in rice plants. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 737-748.	4.1	33
57	Evolutionary diversification of galactinol synthases in Rosaceae: adaptive roles of galactinol and raffinose during apple bud dormancy. <i>Journal of Experimental Botany</i> , 2018, 69, 1247-1259.	2.4	33
58	Impairment of peroxisomal APX and CAT activities increases protection of photosynthesis under oxidative stress. <i>Journal of Experimental Botany</i> , 2019, 70, 627-639.	2.4	31
59	New insights on the evolution of Leafy cotyledon1 (LEC1) type genes in vascular plants. <i>Genomics</i> , 2014, 103, 380-387.	1.3	30
60	Chloroplastic and mitochondrial GPX genes play a critical role in rice development. <i>Biologia Plantarum</i> , 2014, 58, 375-378.	1.9	30
61	Comprehensive selection of reference genes for quantitative gene expression analysis during seed development in <i>Brassica napus</i> . <i>Plant Cell Reports</i> , 2015, 34, 1139-1149.	2.8	30
62	Authentication of Medicinal Plant Botanical Identity by Amplified Fragmented Length Polymorphism Dominant DNA Marker: Inferences from the <i>Plectranthus</i> Genus. <i>Planta Medica</i> , 2006, 72, 929-931.	0.7	29
63	Salinity and osmotic stress trigger different antioxidant responses related to cytosolic ascorbate peroxidase knockdown in rice roots. <i>Environmental and Experimental Botany</i> , 2016, 131, 58-67.	2.0	29
64	Nicotine Biosynthesis in <i>Nicotiana</i> : A Metabolic Overview. <i>Tobacco Science</i> , 2019, 56, 1-9.	3.0	29
65	Somatic embryo formation in <i>Arabidopsis</i> and eggplant is associated with expression of a glycine-rich protein gene (<i>Atgrp-5</i>). <i>Plant Science</i> , 2001, 161, 559-567.	1.7	28
66	Multigene families encode the major enzymes of antioxidant metabolism in <i>Eucalyptus grandis</i> L. <i>Genetics and Molecular Biology</i> , 2005, 28, 529-538.	0.6	28
67	Mitochondrial glutathione peroxidase (<i>OsGPX3</i>) has a crucial role in rice protection against salt stress. <i>Environmental and Experimental Botany</i> , 2019, 158, 12-21.	2.0	28
68	Enzymes of glycerol-3-phosphate pathway in triacylglycerol synthesis in plants: Function, biotechnological application and evolution. <i>Progress in Lipid Research</i> , 2019, 73, 46-64.	5.3	28
69	Revisiting the Non-Animal Peroxidase Superfamily. <i>Trends in Plant Science</i> , 2015, 20, 807-813.	4.3	27
70	VuNIP1 (NOD26-like) and VuHSP17.7 gene expression are regulated in response to heat stress in cowpea nodule. <i>Environmental and Experimental Botany</i> , 2008, 63, 256-265.	2.0	25
71	Fumarate reductase superfamily: A diverse group of enzymes whose evolution is correlated to the establishment of different metabolic pathways. <i>Mitochondrion</i> , 2017, 34, 56-66.	1.6	25
72	Bean class IV chitinase gene: structure, developmental expression and induction by heat stress. <i>Plant Science</i> , 1994, 98, 163-173.	1.7	24

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73	Ubiquitous urease affects soybean susceptibility to fungi. <i>Plant Molecular Biology</i> , 2012, 79, 75-87.	2.0	24
74	Gene expression analysis reveals important pathways for drought response in leaves and roots of a wheat cultivar adapted to rainfed cropping in the Cerrado biome. <i>Genetics and Molecular Biology</i> , 2016, 39, 629-645.	0.6	22
75	Thylakoidal APX modulates hydrogen peroxide content and stomatal closure in rice (<i>Oryza sativa</i> L.). <i>Environmental and Experimental Botany</i> , 2018, 150, 46-56.	2.0	20
76	Revising the <i>PLAC8</i> gene family: from a central role in differentiation, proliferation, and apoptosis in mammals to a multifunctional role in plants. <i>Genome</i> , 2018, 61, 857-865.	0.9	20
77	Cytosolic APX knockdown rice plants sustain photosynthesis by regulation of protein expression related to photochemistry, Calvin cycle and photorespiration. <i>Physiologia Plantarum</i> , 2014, 150, 632-645.	2.6	19
78	Molecular evolution and diversification of plant cysteine proteinase inhibitors: New insights after the poplar genome. <i>Molecular Phylogenetics and Evolution</i> , 2008, 49, 349-355.	1.2	18
79	Analysis of castor bean ribosome-inactivating proteins and their gene expression during seed development. <i>Genetics and Molecular Biology</i> , 2013, 36, 74-86.	0.6	18
80	Functional diversification of the dehydrin gene family in apple and its contribution to cold acclimation during dormancy. <i>Physiologia Plantarum</i> , 2015, 155, 315-329.	2.6	18
81	Proteomic and physiological approaches reveal new insights for uncover the role of rice thylakoidal APX in response to drought stress. <i>Journal of Proteomics</i> , 2019, 192, 125-136.	1.2	18
82	AtchitIV gene expression is stimulated under abiotic stresses and is spatially and temporally regulated during embryo development. <i>Genetics and Molecular Biology</i> , 2004, 27, 118-123.	0.6	17
83	Modulation of genes related to specific metabolic pathways in response to cytosolic ascorbate peroxidase knockdown in rice plants. <i>Plant Biology</i> , 2012, 14, 944-955.	1.8	17
84	Transcriptome of tung tree mature seeds with an emphasis on lipid metabolism genes. <i>Tree Genetics and Genomes</i> , 2014, 10, 1353-1367.	0.6	15
85	Manipulation of <i>VviAGL11</i> expression changes the seed content in grapevine (<i>Vitis vinifera</i> L.). <i>Plant Science</i> , 2018, 269, 126-135.	1.7	15
86	Molecular evolution and diversification of the GRF transcription factor family. <i>Genetics and Molecular Biology</i> , 2020, 43, 20200080.	0.6	15
87	Going Forward and Back: The Complex Evolutionary History of the GPx. <i>Biology</i> , 2021, 10, 1165.	1.3	15
88	Rice bifunctional phytocystatin is a dual modulator of legumain and papain-like proteases. <i>Plant Molecular Biology</i> , 2016, 92, 193-207.	2.0	14
89	Ascorbate peroxidase-related (APx-R) is not a duplicable gene. <i>Plant Signaling and Behavior</i> , 2011, 6, 1908-1913.	1.2	13
90	The rice ASR5 protein. <i>Plant Signaling and Behavior</i> , 2012, 7, 1263-1266.	1.2	13

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91	Chromosomal introgressions from <i>Oryza meridionalis</i> into domesticated rice <i>Oryza sativa</i> result in iron tolerance. <i>Journal of Experimental Botany</i> , 2021, 72, 2242-2259.	2.4	13
92	Transgenic fertile soybean plants derived from somatic embryos transformed via the combined DNA-free particle bombardment and <i>Agrobacterium</i> system. <i>Euphytica</i> , 2011, 177, 343-354.	0.6	12
93	OslCE1 transcription factor improves photosynthetic performance and reduces grain losses in rice plants subjected to drought. <i>Environmental and Experimental Botany</i> , 2018, 150, 88-98.	2.0	12
94	In vitro somatic embryogenesis and adventitious root initiation have a common origin in eggplant (<i>Solanum melongena</i> L.). <i>Revista Brasileira De Botanica</i> , 2004, 27, 79-84.	0.5	12
95	Ascorbic acid toxicity is related to oxidative stress and enhanced by high light and knockdown of chloroplast ascorbate peroxidases in rice plants. <i>Theoretical and Experimental Plant Physiology</i> , 2018, 30, 41-55.	1.1	11
96	Phosphate starvation responses in crop roots: from well-known players to novel candidates. <i>Environmental and Experimental Botany</i> , 2020, 178, 104162.	2.0	11
97	Tightly controlled expression of OsbHLH35 is critical for anther development in rice. <i>Plant Science</i> , 2021, 302, 110716.	1.7	11
98	Ascorbate Peroxidase Neofunctionalization at the Origin of APX-R and APX-L: Evidence from Basal Archaeplastida. <i>Antioxidants</i> , 2021, 10, 597.	2.2	11
99	Identification, classification and expression pattern analysis of sugarcane cysteine proteinases. <i>Genetics and Molecular Biology</i> , 2001, 24, 275-283.	0.6	9
100	The Lesion Simulating Disease (LSD) gene family as a variable in soybean response to <i>Phakopsora pachyrhizi</i> infection and dehydration. <i>Functional and Integrative Genomics</i> , 2013, 13, 323-338.	1.4	9
101	Arabidopsis APx-R Is a Plastidial Ascorbate-Independent Peroxidase Regulated by Photomorphogenesis. <i>Antioxidants</i> , 2021, 10, 65.	2.2	9
102	Bean class IV chitinase promoter is modulated during plant development and under abiotic stress. <i>Physiologia Plantarum</i> , 2002, 116, 512-521.	2.6	8
103	The phylogeny and evolutionary history of the Lesion Simulating Disease (LSD) gene family in Viridiplantae. <i>Molecular Genetics and Genomics</i> , 2015, 290, 2107-2119.	1.0	8
104	ASR5 is involved in the regulation of miRNA expression in rice. <i>Plant Cell Reports</i> , 2015, 34, 1899-1907.	2.8	8
105	Characterization of the nucellus-specific dehydrin MdoDHN11 demonstrates its involvement in the tolerance to water deficit. <i>Plant Cell Reports</i> , 2019, 38, 1099-1107.	2.8	7
106	Chloroplastic ascorbate peroxidases targeted to stroma or thylakoid membrane: The chicken or egg dilemma. <i>FEBS Letters</i> , 2022, 596, 2989-3004.	1.3	7
107	The mitochondrial isoform glutathione peroxidase 3 (OsGPX3) is involved in ABA responses in rice plants. <i>Journal of Proteomics</i> , 2021, 232, 104029.	1.2	6
108	Transformation of Brazilian elite Indica-type rice (<i>Oryza sativa</i> L.) by electroporation of shoot apex explants. <i>Plant Molecular Biology Reporter</i> , 2001, 19, 55-64.	1.0	5

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109	Effect of <i>Urtica dioica</i> agglutinin and <i>Arabidopsis thaliana</i> Chia4 chitinase on the protozoan <i>Phytomonas</i> <i>francoisii</i> . <i>FEMS Microbiology Letters</i> , 2003, 226, 1-7.	0.7	5
110	Salt resistance of interspecific crosses of domesticated and wild rice species. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 492-507.	1.1	5
111	Molecular Cloning and Transgenic Expression of a Synthetic Human Erythropoietin Gene in Tobacco. <i>Applied Biochemistry and Biotechnology</i> , 2011, 165, 652-665.	1.4	4
112	GILP family: a stress-responsive group of plant proteins containing a LITAF motif. <i>Functional and Integrative Genomics</i> , 2018, 18, 55-66.	1.4	4
113	The evolutionary history of the E2F and DEL genes in Viridiplantae. <i>Molecular Phylogenetics and Evolution</i> , 2016, 99, 225-234.	1.2	3
114	Ascorbate Peroxidases: Scavengers or Sensors of Hydrogen Peroxide Signaling?. <i>Signaling and Communication in Plants</i> , 2019, , 85-115.	0.5	3
115	Salicylic acid and adenine nucleotides regulate the electron transport system and ROS production in plant mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148559.	0.5	3
116	Phylogeography of the disjunct <i>Schizolobium parahyba</i> (Fabaceae-Caesalpinioideae). <i>BMC Proceedings</i> , 2011, 5, .	1.8	1
117	Rice Arsenal Against Aluminum Toxicity. <i>Signaling and Communication in Plants</i> , 2015, , 155-168.	0.5	1
118	Investigating the expression pattern of the OsAPx1 gene promoter in rice. <i>BMC Proceedings</i> , 2014, 8, .	1.8	0
119	cDNA-AFLP Transcriptome Analysis in Legumes. , 2008, , 413-426.		0
120	Characterization of an Early Berry Development Grapevine Somatic Variant (<i>Vitis labrusca</i> L. cv. Isabel) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	0