Margret Sauter

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Methionine salvage and <i>S</i>-adenosylmethionine: essential links between sulfur, ethylene and polyamine biosynthesis. Biochemical Journal, 2013, 451, 145-154.	3.7	298
2	Arabidopsis<i>RAP2.2</i>: An Ethylene Response Transcription Factor That Is Important for Hypoxia Survival Â Â. Plant Physiology, 2010, 153, 757-772.	4.8	293
3	Root responses to flooding. Current Opinion in Plant Biology, 2013, 16, 282-286.	7.1	236
4	Adventitious Root Growth and Cell-Cycle Induction in Deepwater Rice1. Plant Physiology, 1999, 119, 21-30.	4.8	235
5	Ethylene Induces Epidermal Cell Death at the Site of Adventitious Root Emergence in Rice. Plant Physiology, 2000, 124, 609-614.	4.8	217
6	Interactions between ethylene, gibberellin and abscisic acid regulate emergence and growth rate of adventitious roots in deepwater rice. Planta, 2006, 223, 604-612.	3.2	214
7	Aerenchyma formation in the rice stem and its promotion by H₂O₂. New Phytologist, 2011, 190, 369-378.	7.3	199
8	Phytosulfokine Regulates Growth in Arabidopsis through a Response Module at the Plasma Membrane That Includes CYCLIC NUCLEOTIDE-GATED CHANNEL17, H⁺-ATPase, and BAK1. Plant Cell, 2015, 27, 1718-1729.	6.6	191
9	Epidermal Cell Death in Rice Is Confined to Cells with a Distinct Molecular Identity and Is Mediated by Ethylene and H2O2 through an Autoamplified Signal Pathway. Plant Cell, 2009, 21, 184-196.	6.6	174
10	Community recommendations on terminology and procedures used in flooding and low oxygen stress research. New Phytologist, 2017, 214, 1403-1407.	7.3	146
11	Emerging Roots Alter Epidermal Cell Fate through Mechanical and Reactive Oxygen Species Signaling. Plant Cell, 2012, 24, 3296-3306.	6.6	145
12	Gibberellin promotes histone H1 kinase activity and the expression of cdc2 and cyclin genes during the induction of rapid growth in deepwater rice internodes. Plant Journal, 1995, 7, 623-632.	5.7	141
13	A stress recovery signaling network for enhanced flooding tolerance in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6085-E6094.	7.1	140
14	PSKâ€Î± promotes root growth in Arabidopsis. New Phytologist, 2009, 181, 820-831.	7.3	136
15	Regulation of root adaptive anatomical and morphological traits during low soil oxygen. New Phytologist, 2021, 229, 42-49.	7.3	134
16	Phytosulfokine peptide signalling. Journal of Experimental Botany, 2015, 66, 5161-5169.	4.8	131
17	Epidermal Cell Death in Rice Is Regulated by Ethylene, Gibberellin, and Abscisic Acid. Plant Physiology, 2005, 139, 713-721.	4.8	129
18	Differential expression of a CAK (cdc2-activating kinase)-like protein kinase, cyclins and cdc2 genes from rice during the cell cycle and in response to gibberellin. Plant Journal, 1997, 11, 181-190.	5.7	126

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19	The role of methionine recycling for ethylene synthesis in Arabidopsis. Plant Journal, 2007, 49, 238-249.	5.7	124
20	The plant Spc98p homologue colocalizes with gamma-tubulin at microtubule nucleation sites and is required for microtubule nucleation. Journal of Cell Science, 2002, 115, 2423-31.	2.0	107
21	Targeted Systems Biology Profiling of Tomato Fruit Reveals Coordination of the Yang Cycle and a Distinct Regulation of Ethylene Biosynthesis during Postclimacteric Ripening Â Â Â. Plant Physiology, 2012, 160, 1498-1514.	4.8	104
22	Ethylene biosynthesis and signaling in rice. Plant Science, 2008, 175, 32-42.	3.6	99
23	Rice in deep water: "How to take heed against a sea of troubles". Die Naturwissenschaften, 2000, 87, 289-303.	1.6	93
24	Root Bending Is Antagonistically Affected by Hypoxia and ERF-Mediated Transcription via Auxin Signaling. Plant Physiology, 2017, 175, 412-423.	4.8	87
25	Phytosulfokine-Î± Controls Hypocotyl Length and Cell Expansion in Arabidopsis thaliana through Phytosulfokine Receptor 1. PLoS ONE, 2011, 6, e21054.	2.5	85
26	The immediate-early ethylene response gene OsARD1 encodes an acireductone dioxygenase involved in recycling of the ethylene precursor S-adenosylmethionine. Plant Journal, 2005, 44, 718-729.	5.7	75
27	The hypoxia responsive transcription factor genes <i>ERF71/HRE2</i> and <i>ERF73/HRE1</i> of <i>Arabidopsis</i> are differentially regulated by ethylene. Physiologia Plantarum, 2011, 143, 41-49.	5.2	73
28	Sulfated plant peptide hormones. Journal of Experimental Botany, 2019, 70, 4267-4277.	4.8	67
29	<i>S</i>â€adenosylâ€<scp>l</scp>â€methionine usage during climacteric ripening of tomato in relation to ethylene and polyamine biosynthesis and transmethylation capacity. Physiologia Plantarum, 2013, 148, 176-188.	5.2	61
30	Phytosulfokine peptide signaling controls pollen tube growth and funicular pollen tube guidance in <i>Arabidopsis thaliana</i>. Physiologia Plantarum, 2015, 153, 643-653.	5.2	59
31	Phytosulfokine control of growth occurs in the epidermis, is likely to be nonâ€cell autonomous and is dependent on brassinosteroids. Plant Journal, 2013, 73, 579-590.	5.7	57
32	Kinase activity and calmodulin binding are essential for growth signaling by the phytosulfokine receptor <scp>PSKR</scp>1. Plant Journal, 2014, 78, 192-202.	5.7	54
33	Comparative analysis of PSK peptide growth factor precursor homologs. Plant Science, 2002, 163, 321-332.	3.6	50
34	Functional Analysis of Methylthioribose Kinase Genes in Plants. Plant Physiology, 2004, 136, 4061-4071.	4.8	50
35	Polar Auxin Transport Determines Adventitious Root Emergence and Growth in Rice. Frontiers in Plant Science, 2019, 10, 444.	3.6	48
36	Inhibition of 5â€™-methylthioadenosine metabolism in the Yang cycle alters polyamine levels, and impairs seedling growth and reproduction in Arabidopsis. Plant Journal, 2010, 62, no-no.	5.7	47

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37	Control of Adventitious Root Architecture in Rice by Darkness, Light, and Gravity. Plant Physiology, 2018, 176, 1352-1364.	4.8	46
38	Hypoxia and the group VII ethylene response transcription factor HRE2 promote adventitious root elongation in <i>Arabidopsis</i>. Plant Biology, 2019, 21, 103-108.	3.8	43
39	The Rice Cyclin-Dependent Kinase â€"Activating Kinase R2 Regulates S-Phase Progression. Plant Cell, 2002, 14, 197-210.	6.6	42
40	A role for PSK signaling in wounding and microbial interactions in Arabidopsis. Physiologia Plantarum, 2010, 139, no-no.	5.2	42
41	OsMTN encodes a 5â€²-methylthioadenosine nucleosidase that is up-regulated during submergence-induced ethylene synthesis in rice (Oryza sativa L.). Journal of Experimental Botany, 2007, 58, 1505-1514.	4.8	40
42	Phytosulfokine (PSK) precursor processing by subtilase SBT3.8 and PSK signaling improve drought stress tolerance in Arabidopsis. Journal of Experimental Botany, 2021, 72, 3427-3440.	4.8	39
43	Induction of cell growth and cell division in the intercalary meristem of submerged deepwater rice () Tj ETQq1 1 0.784314 rgBT /Overlo	3.2	37
44	Phytosulphokine gene regulation during maize (Zea mays L.) reproduction*. Journal of Experimental Botany, 2005, 56, 1805-1819.	4.8	35
45	Recycling of Methylthioadenosine Is Essential for Normal Vascular Development and Reproduction in Arabidopsis Â Â. Plant Physiology, 2012, 158, 1728-1744.	4.8	35
46	Try or Die: Dynamics of Plant Respiration and How to Survive Low Oxygen Conditions. Plants, 2022, 11, 205.	3.5	24
47	Conserved phosphorylation sites in the activation loop of the <i>Arabidopsis</i> phytosulfokine receptor PSKR1 differentially affect kinase and receptor activity. Biochemical Journal, 2015, 472, 379-391.	3.7	20
48	Plant-specific regulation of replication proteinï¿½A2 (OsRPA2) from rice during the cell cycle and in response to ultraviolet light exposure. Planta, 2003, 217, 457-465.	3.2	17
49	Phosphorylation of the phytosulfokine peptide receptor PSKR1 controls receptor activity. Journal of Experimental Botany, 2017, 68, 1411-1423.	4.8	16
50	Oxygen in the air and oxygen dissolved in the floodwater both sustain growth of aquatic adventitious roots in rice. Journal of Experimental Botany, 2021, 72, 1879-1890.	4.8	16
51	The PSI family of nuclear proteins is required for growth in arabidopsis. Plant Molecular Biology, 2014, 86, 289-302.	3.9	13
52	Tyrosylprotein sulfotransferase-dependent and -independent regulation of root development and signaling by PSK LRR receptor kinases in Arabidopsis. Journal of Experimental Botany, 2021, 72, 5508-5521.	4.8	11
53	A guided tour: Pollen tube orientation in flowering plants. Science Bulletin, 2009, 54, 2376-2382.	1.7	8
54	Control of root system architecture by phytohormones and environmental signals in rice. Israel Journal of Plant Sciences, 2020, 67, 98-109.	0.5	8

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55	Role of Ethylene and Other Plant Hormones in Orchestrating the Responses to Low Oxygen Conditions. Plant Cell Monographs, 2014, , 117-132.	0.4	7
56	Pull-down Assay to Characterize Ca2+/Calmodulin Binding to Plant Receptor Kinases. Methods in Molecular Biology, 2017, 1621, 151-159.	0.9	4
57	BiFC Assay to Detect Calmodulin Binding to Plant Receptor Kinases. Methods in Molecular Biology, 2017, 1621, 141-149.	0.9	3