

Takayuki Sasaki

List of Publications by Year in descending order

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34
papers

3,721
citations

257450

24
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

2699
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional roles of ALMT-type anion channels in malate-induced stomatal closure in tomato and Arabidopsis. <i>Plant, Cell and Environment</i> , 2022, 45, 2337-2350.	5.7	3
2	Physiological Role of Aerobic Fermentation Constitutively Expressed in an Aluminum-Tolerant Cell Line of Tobacco (<i>Nicotiana tabacum</i>). <i>Plant and Cell Physiology</i> , 2021, 62, 1460-1477.	3.1	6
3	AtALMT3 is Involved in Malate Efflux Induced by Phosphorus Deficiency in <i>Arabidopsis thaliana</i> Root Hairs. <i>Plant and Cell Physiology</i> , 2019, 60, 107-115.	3.1	28
4	Aluminium-induced cell death requires upregulation of NtVPE1 gene coding vacuolar processing enzyme in tobacco (<i>Nicotiana tabacum</i> L.). <i>Journal of Inorganic Biochemistry</i> , 2018, 181, 152-161.	3.5	19
5	Overexpression of the sucrose transporter gene <i>NtSUT1</i> alleviates aluminum-induced inhibition of root elongation in tobacco (<i>Nicotiana tabacum</i> L.). <i>Soil Science and Plant Nutrition</i> , 2017, 63, 45-54.	1.9	21
6	A multidrug and toxic compound extrusion transporter mediates berberine accumulation into vacuoles in <i>Coptis japonica</i> . <i>Phytochemistry</i> , 2017, 138, 76-82.	2.9	30
7	A Dicarboxylate Transporter, LjALMT4, Mainly Expressed in Nodules of <i>Lotus japonicus</i> . <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 584-592.	2.6	29
8	A chimeric protein of aluminum-activated malate transporter generated from wheat and Arabidopsis shows enhanced response to trivalent cations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1427-1435.	2.6	9
9	Two Members of the Aluminum-Activated Malate Transporter Family, <i>SlALMT4</i> and <i>SlALMT5</i> , are Expressed during Fruit Development, and the Overexpression of <i>SlALMT5</i> Alters Organic Acid Contents in Seeds in Tomato (<i>Solanum lycopersicum</i>). <i>Plant and Cell Physiology</i> , 2016, 57, 2367-2379.	3.1	33
10	A Domain-Based Approach for Analyzing the Function of Aluminum-Activated Malate Transporters from Wheat (<i>Triticum aestivum</i>) and Arabidopsis thaliana in <i>Xenopus</i> oocytes. <i>Plant and Cell Physiology</i> , 2014, 55, 2126-2138.	3.1	17
11	Sucrose transporter NtSUT1 confers aluminum tolerance on cultured cells of tobacco (<i>Nicotiana</i>) Tj ETQq1 1.0784314 rgBT / Over	1.9	20
12	A novel mechanism of aluminium-induced cell death involving vacuolar processing enzyme and vacuolar collapse in tobacco cell line BY-2. <i>Journal of Inorganic Biochemistry</i> , 2013, 128, 196-201.	3.5	38
13	Al-induced secretion of organic acid, gene expression and root elongation in soybean roots. <i>Acta Physiologiae Plantarum</i> , 2013, 35, 223-232.	2.1	11
14	Inhibitory Effects of Methylglyoxal on Light-Induced Stomatal Opening and Inward K^{+} Channel Activity in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 617-619.	1.3	37
15	The identification of aluminium-resistance genes provides opportunities for enhancing crop production on acid soils. <i>Journal of Experimental Botany</i> , 2011, 62, 9-20.	4.8	272
16	Aluminum tolerance associated with enhancement of plasma membrane H^{+} -ATPase in the root apex of soybean. <i>Soil Science and Plant Nutrition</i> , 2010, 56, 140-149.	1.9	11
17	An extracellular hydrophilic carboxy-terminal domain regulates the activity of TaALMT1, the aluminum-activated malate transport protein of wheat. <i>Plant Journal</i> , 2010, 64, no-no.	5.7	45
18	The multiple origins of aluminium resistance in hexaploid wheat include <i>Aegilops tauschii</i> and more recent cis mutations to TaALMT1. <i>Plant Journal</i> , 2010, 64, 446-455.	5.7	75

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19	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. <i>Plant and Cell Physiology</i> , 2010, 51, 354-365.	3.1	159
20	Quality control of photosystem II: impact of light and heat stresses. <i>Photosynthesis Research</i> , 2008, 98, 589-608.	2.9	202
21	Analysis of TaALMT1 traces the transmission of aluminum resistance in cultivated common wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2008, 116, 343-354.	3.6	71
22	Characterization of the TaALMT1 Protein as an Al ³⁺ -Activated Anion Channel in Transformed Tobacco (<i>Nicotiana tabacum</i> L.) Cells. <i>Plant and Cell Physiology</i> , 2008, 49, 1316-1330.	3.1	77
23	The Membrane Topology of ALMT1, an Aluminum-Activated Malate Transport Protein in Wheat (<i>Triticum aestivum</i>). <i>Plant Signaling and Behavior</i> , 2007, 2, 467-472.	2.4	48
24	Malate enhances recovery from aluminum-caused inhibition of root elongation in wheat. <i>Plant and Soil</i> , 2007, 290, 1-15.	3.7	22
25	Sequence Upstream of the Wheat (<i>Triticum aestivum</i> L.) ALMT1 Gene and its Relationship to Aluminum Resistance. <i>Plant and Cell Physiology</i> , 2006, 47, 1343-1354.	3.1	135
26	AtALMT1, which encodes a malate transporter, is identified as one of several genes critical for aluminum tolerance in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9738-9743.	7.1	509
27	Physiological and genetic analyses of aluminium tolerance in rice, focusing on root growth during germination. <i>Journal of Inorganic Biochemistry</i> , 2005, 99, 1837-1844.	3.5	42
28	Evidence for the Plasma Membrane Localization of Al-activated Malate Transporter (ALMT1). <i>Plant and Cell Physiology</i> , 2005, 46, 812-816.	3.1	87
29	Citrate Secretion Coupled with the Modulation of Soybean Root Tip under Aluminum Stress. Up-Regulation of Transcription, Translation, and Threonine-Oriented Phosphorylation of Plasma Membrane H ⁺ -ATPase. <i>Plant Physiology</i> , 2005, 138, 287-296.	4.8	146
30	Molecular characterization and mapping of ALMT1, the aluminium-tolerance gene of bread wheat (<i>Triticum aestivum</i> L.). <i>Genome</i> , 2005, 48, 781-791.	2.0	149
31	Phosphorus deficiency enhances plasma membrane H ⁺ -ATPase activity and citrate exudation in greater purple lupin (<i>Lupinus pilosus</i>). <i>Functional Plant Biology</i> , 2004, 31, 1075.	2.1	77
32	A wheat gene encoding an aluminum-activated malate transporter. <i>Plant Journal</i> , 2004, 37, 645-653.	5.7	858
33	Engineering high-level aluminum tolerance in barley with the ALMT1 gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15249-15254.	7.1	359
34	A Gene Encoding Multidrug Resistance (MDR)-Like Protein is Induced by Aluminum and Inhibitors of Calcium Flux in Wheat. <i>Plant and Cell Physiology</i> , 2002, 43, 177-185.	3.1	76