# 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 | A wheat gene encoding an aluminum-activated malate transporter. Plant Journal, 2004, 37, 645-653. | 5.7 | 858 |
| 2 | AtALMT1, which encodes a malate transporter, is identified as one of several genes critical for aluminum tolerance in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9738-9743. | 7.1 | 509 |
| 3 | Engineering high-level aluminum tolerance in barley with the ALMT1 gene. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15249-15254. | 7.1 | 359 |
| 4 | The identification of aluminium-resistance genes provides opportunities for enhancing crop production on acid soils. Journal of Experimental Botany, 2011, 62, 9-20. | 4.8 | 272 |
| 5 | Quality control of photosystem II: impact of light and heat stresses. Photosynthesis Research, 2008, 98, 589-608. | 2.9 | 202 |
| 6 | Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. Plant and Cell Physiology, 2010, 51, 354-365. | 3.1 | 159 |
| 7 | Molecular characterization and mapping ofALMT1, the aluminium-tolerance gene of bread wheat (Triticum aestivumL.). Genome, 2005, 48, 781-791. | 2.0 | 149 |
| 8 | 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. Plant Physiology, 2005, 138, 287-296. | 4.8 | 146 |
| 9 | Sequence Upstream of the Wheat ( Triticum aestivum L.) ALMT1 Gene and its Relationship to Aluminum Resistance. Plant and Cell Physiology, 2006, 47, 1343-1354. | 3.1 | 135 |
| 10 | Evidence for the Plasma Membrane Localization of Al-activated Malate Transporter (ALMT1). Plant and Cell Physiology, 2005, 46, 812-816. | 3.1 | 87 |
| 11 | Phosphorus deficiency enhances plasma membrane H+-ATPase activity and citrate exudation in greater purple lupin (Lupinus pilosus). Functional Plant Biology, 2004, 31, 1075. | 2.1 | 77 |
| 12 | Characterization of the TaALMT1 Protein as an Al3+-Activated Anion Channel in Transformed Tobacco (Nicotiana tabacum L.) Cells. Plant and Cell Physiology, 2008, 49, 1316-1330. | 3.1 | 77 |
| 13 | A Gene Encoding Multidrug Resistance (MDR)-Like Protein is Induced by Aluminum and Inhibitors of Calcium Flux in Wheat. Plant and Cell Physiology, 2002, 43, 177-185. | 3.1 | 76 |
| 14 | The multiple origins of aluminium resistance in hexaploid wheat include Aegilops tauschii and more recent cis mutations to TaALMT1. Plant Journal, 2010, 64, 446-455. | 5.7 | 75 |
| 15 | Analysis of TaALMT1 traces the transmission of aluminum resistance in cultivated common wheat (Triticum aestivum L.). Theoretical and Applied Genetics, 2008, 116, 343-354. | 3.6 | 71 |
| 16 | The Membrane Topology of ALMT1, an Aluminum-Activated Malate Transport Protein in Wheat (Triticum aestivum). Plant Signaling and Behavior, 2007, 2, 467-472. | 2.4 | 48 |
| 17 | An extracellular hydrophilic carboxy-terminal domain regulates the activity of TaALMT1, the aluminum-activated malate transport protein of wheat. Plant Journal, 2010, 64, no-no. | 5.7 | 45 |
| 18 | Physiological and genetic analyses of aluminium tolerance in rice, focusing on root growth during germination. Journal of Inorganic Biochemistry, 2005, 99, 1837-1844. | 3.5 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A novel mechanism of aluminium-induced cell death involving vacuolar processing enzyme and vacuolar collapse in tobacco cell line BY-2. Journal of Inorganic Biochemistry, 2013, 128, 196-201. | 3.5 | 38 |
| 20 | Inhibitory Effects of Methylglyoxal on Light-Induced Stomatal Opening and Inward K<sup>+</sup>Channel Activity inArabidopsis. Bioscience, Biotechnology and Biochemistry, 2012, 76, 617-619. | 1.3 | 37 |
| 21 | Two Members of the Aluminum-Activated Malate Transporter Family,SlALMT4andSlALMT5, are Expressed during Fruit Development, and the Overexpression ofSlALMT5Alters Organic Acid Contents in Seeds in Tomato (Solanum lycopersicum). Plant and Cell Physiology, 2016, 57, 2367-2379. | 3.1 | 33 |
| 22 | A multidrug and toxic compound extrusion transporter mediates berberine accumulation into vacuoles in Coptis japonica. Phytochemistry, 2017, 138, 76-82. | 2.9 | 30 |
| 23 | A Dicarboxylate Transporter, LjALMT4, Mainly Expressed in Nodules of Lotus japonicus. Molecular Plant-Microbe Interactions, 2016, 29, 584-592. | 2.6 | 29 |
| 24 | AtALMT3 is Involved in Malate Efflux Induced by Phosphorus Deficiency inArabidopsis thalianaRoot Hairs. Plant and Cell Physiology, 2019, 60, 107-115. | 3.1 | 28 |
| 25 | Malate enhances recovery from aluminum-caused inhibition of root elongation in wheat. Plant and Soil, 2007, 290, 1-15. | 3.7 | 22 |
| 26 | Overexpression of the sucrose transporter gene NtSUT1 alleviates aluminum-induced inhibition of root elongation in tobacco (Nicotiana tabacum L.). Soil Science and Plant Nutrition, 2017, 63, 45-54. | 1.9 | 21 |
| 27 | Sucrose transporter NtSUT1 confers aluminum tolerance on cultured cells of tobacco (Nicotiana) Tj ETQq1 1 0.784314 rgBT /Over | 1.9 | 20 |
| 28 | Aluminium-induced cell death requires upregulation of NtVPE1 gene coding vacuolar processing enzyme in tobacco (Nicotiana tabacum L.). Journal of Inorganic Biochemistry, 2018, 181, 152-161. | 3.5 | 19 |
| 29 | A Domain-Based Approach for Analyzing the Function of Aluminum-Activated Malate Transporters from Wheat (Triticum aestivum) and Arabidopsis thaliana in Xenopus oocytes. Plant and Cell Physiology, 2014, 55, 2126-2138. | 3.1 | 17 |
| 30 | Aluminum tolerance associated with enhancement of plasma membrane H<sup>+</sup>-ATPase in the root apex of soybean. Soil Science and Plant Nutrition, 2010, 56, 140-149. | 1.9 | 11 |
| 31 | Al-induced secretion of organic acid, gene expression and root elongation in soybean roots. Acta Physiologiae Plantarum, 2013, 35, 223-232. | 2.1 | 11 |
| 32 | A chimeric protein of aluminum-activated malate transporter generated from wheat and Arabidopsis shows enhanced response to trivalent cations. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1427-1435. | 2.6 | 9 |
| 33 | Physiological Role of Aerobic Fermentation Constitutively Expressed in an Aluminum-Tolerant Cell Line of Tobacco (Nicotiana tabacum). Plant and Cell Physiology, 2021, 62, 1460-1477. | 3.1 | 6 |
| 34 | Functional roles of ALMTâ€type anion channels in malateâ€induced stomatal closure in tomato and Arabidopsis. Plant, Cell and Environment, 2022, 45, 2337-2350. | 5.7 | 3 |