Tatsuo Kakimoto

List of Publications by Year in descending order

36 papers	9,076 citations	186265 28 h-index	330143 37 g-index
38 all docs	38 docs citations	38 times ranked	8435 citing authors

#	Article	IF	Citations
1	An auxin-based degron system for the rapid depletion of proteins in nonplant cells. Nature Methods, 2009, 6, 917-922.	19.0	1,364
2	Identification of CRE1 as a cytokinin receptor from Arabidopsis. Nature, 2001, 409, 1060-1063.	27.8	854
3	Analysis of Cytokinin Mutants and Regulation of Cytokinin Metabolic Genes Reveals Important Regulatory Roles of Cytokinins in Drought, Salt and Abscisic Acid Responses, and Abscisic Acid Biosynthesis Â. Plant Cell, 2011, 23, 2169-2183.	6.6	647
4	In planta functions of the Arabidopsis cytokinin receptor family. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8821-8826.	7.1	610
5	CKI1, a Histidine Kinase Homolog Implicated in Cytokinin Signal Transduction. Science, 1996, 274, 982-985.	12.6	604
6	Functional analysis of AHK1/ATHK1 and cytokinin receptor histidine kinases in response to abscisic acid, drought, and salt stress in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20623-20628.	7.1	592
7	Expression of cytokinin biosynthetic isopentenyltransferase genes inArabidopsis: tissue specificity and regulation by auxin, cytokinin, and nitrate. Plant Journal, 2004, 37, 128-138.	5.7	584
8	Roles of Arabidopsis ATP/ADP isopentenyltransferases and tRNA isopentenyltransferases in cytokinin biosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16598-16603.	7.1	485
9	The secretory peptide gene EPF1 enforces the stomatal one-cell-spacing rule. Genes and Development, 2007, 21, 1720-1725.	5.9	438
10	Identification of Plant Cytokinin Biosynthetic Enzymes as Dimethylallyl Diphosphate:ATP/ADP Isopentenyltransferases. Plant and Cell Physiology, 2001, 42, 677-685.	3.1	412
11	Cytokinins are central regulators of cambial activity. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20027-20031.	7.1	367
12	PERCEPTION ANDSIGNALTRANSDUCTION OFCYTOKININS. Annual Review of Plant Biology, 2003, 54, 605-627.	18.7	331
13	Epidermal Cell Density is Autoregulated via a Secretory Peptide, EPIDERMAL PATTERNING FACTOR 2 in Arabidopsis Leaves. Plant and Cell Physiology, 2009, 50, 1019-1031.	3.1	321
14	Stomatal Density is Controlled by a Mesophyll-Derived Signaling Molecule. Plant and Cell Physiology, 2010, 51, 1-8.	3.1	194
15	Distinct Characteristics of Indole-3-Acetic Acid and Phenylacetic Acid, Two Common Auxins in Plants. Plant and Cell Physiology, 2015, 56, 1641-1654.	3.1	142
16	Cytokinin is required for escape but not release from auxin mediated apical dominance. Plant Journal, 2015, 82, 874-886.	5.7	136
17	The CLE9/10 secretory peptide regulates stomatal and vascular development through distinct receptors. Nature Plants, 2018, 4, 1071-1081.	9.3	114
18	Biosynthesis of cytokinins. Journal of Plant Research, 2003, 116, 233-239.	2.4	113

#	Article	IF	Citations
19	A parasitic nematode releases cytokinin that controls cell division and orchestrates feeding site formation in host plants. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 12669-12674.	7.1	113
20	Auxin-inducible protein depletion system in fission yeast. BMC Cell Biology, 2011, 12, 8.	3.0	79
21	Auxin Sensitivities of All Arabidopsis Aux/IAAs for Degradation in the Presence of Every TIR1/AFB. Plant and Cell Physiology, 2014, 55, 1450-1459.	3.1	66
22	TheCYTOKININ-HYPERSENSITIVEgenes ofArabidopsisnegatively regulate the cytokinin-signaling pathway for cell division and chloroplast development. Plant Journal, 2000, 23, 385-394.	5.7	61
23	Cytokinin receptors in sporophytes are essential for male and female functions inArabidopsis thaliana. Plant Signaling and Behavior, 2011, 6, 66-71.	2.4	61
24	The CKH2/PKL Chromatin Remodeling Factor Negatively Regulates Cytokinin Responses in Arabidopsis Calli. Plant and Cell Physiology, 2011, 52, 618-628.	3.1	61
25	Differential Effects of the Peptides Stomagen, EPF1 and EPF2 on Activation of MAP Kinase MPK6 and the SPCH Protein Level. Plant and Cell Physiology, 2013, 54, 1253-1262.	3.1	51
26	Cytokinin signaling. Current Opinion in Plant Biology, 1998, 1, 399-403.	7.1	43
27	Divergent expression of cytokinin biosynthesis, signaling and catabolism genes underlying differences in feeding sites induced by cyst and rootâ€knot nematodes. Plant Journal, 2017, 92, 211-228.	5.7	42
28	Arabidopsis Reduces Growth Under Osmotic Stress by Decreasing SPEECHLESS Protein. Plant and Cell Physiology, 2014, 55, 2037-2046.	3.1	35
29	Two types of bHLH transcription factor determine the competence of the pericycle for lateral root initiation. Nature Plants, 2021, 7, 633-643.	9.3	35
30	Cytokinin signalling regulates organ identity via AHK4 receptor in Arabidopsis. Development (Cambridge), 2018, 145, .	2.5	32
31	The Phenylquinazoline Compound S-4893 is a Non-Competitive Cytokinin Antagonist that Targets Arabidopsis Cytokinin Receptor CRE1 and Promotes Root Growth in Arabidopsis and Rice. Plant and Cell Physiology, 2010, 51, 2047-2059.	3.1	30
32	The CKH1/EER4 Gene Encoding a TAF12-Like Protein Negatively Regulates Cytokinin Sensitivity in Arabidopsis thaliana. Plant and Cell Physiology, 2011, 52, 629-637.	3.1	20
33	A Dof-CLE circuit controls phloem organization. Nature Plants, 2022, 8, 817-827.	9.3	19
34	Genes involved in cytokinin signal transduction. Journal of Plant Research, 1998, 111, 261-265.	2.4	13
35	ROP Interactive Partners are Involved in the Control of Cell Division Patterns in Arabidopsis Leaves. Plant and Cell Physiology, 2022, 63, 1130-1139.	3.1	4
36	Pericycle cell division competence underlies various developmental programs. Plant Biotechnology, 2022, 39, 29-36.	1.0	2