Alice Y Cheung

List of Publications by Year
in descending order

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86 papers	9,277 citations	47 h-index	83 g-index
		47006	56724
91 all docs	91 docs citations	91 times ranked	6359 citing authors

#	Article	IF	Citations
1	Polarized Cell Growth in Higher Plants. Annual Review of Cell and Developmental Biology, 2001, 17, 159-187.	9.4	670
2	FERONIA receptor-like kinase regulates RHO GTPase signaling of root hair development. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17821-17826.	7.1	540
3	The FERONIA Receptor Kinase Maintains Cell-Wall Integrity during Salt Stress through Ca2+ Signaling. Current Biology, 2018, 28, 666-675.e5.	3.9	526
4	A floral transmitting tissue-specific glycoprotein attracts pollen tubes and stimulates their growth. Cell, 1995, 82, 383-393.	28.9	437
5	Structural and Signaling Networks for the Polar Cell Growth Machinery in Pollen Tubes. Annual Review of Plant Biology, 2008, 59, 547-572.	18.7	353
6	Pectin Methylesterase, a Regulator of Pollen Tube Growth. Plant Physiology, 2005, 138, 1334-1346.	4.8	324
7	Arabidopsis pollen tube integrity and sperm release are regulated by RALF-mediated signaling. Science, 2017, 358, 1596-1600.	12.6	324
8	Reactive oxygen species mediate pollen tube rupture to release sperm for fertilization in Arabidopsis. Nature Communications, 2014, 5, 3129.	12.8	291
9	Programmed cell death in plant reproduction. Plant Molecular Biology, 2000, 44, 267-281.	3.9	248
10	A pollen tube growth stimulatory glycoprotein is deglycosylated by pollen tubes and displays a glycosylation gradient in the flower. Cell, 1995, 82, 395-403.	28.9	246
11	Glycosylphosphatidylinositol-anchored proteins as chaperones and co-receptors for FERONIA receptor kinase signaling in Arabidopsis. ELife, 2015, 4, .	6.0	240
12	The Regulation of Actin Organization by Actin-Depolymerizing Factor in Elongating Pollen Tubes[W]. Plant Cell, 2002, 14, 2175-2190.	6.6	230
13	FERONIA receptor kinase pathway suppresses abscisic acid signaling in Arabidopsis by activating ABI2 phosphatase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14693-14698.	7.1	220
14	Overexpression of an Arabidopsis Formin Stimulates Supernumerary Actin Cable Formation from Pollen Tube Cell Membrane[W]. Plant Cell, 2004, 16, 257-269.	6.6	204
15	RAC/ROP GTPases: â€˜hubsâ€™ for signal integration and diversification in plants. Trends in Plant Science, 2006, 11, 309-315.	8.8	196
16	Plant Rac-Like GTPases Are Activated by Auxin and Mediate Auxin-Responsive Gene Expression. Plant Cell, 2002, 14, 2745-2760.	6.6	182
17	Rab2 GTPase Regulates Vesicle Trafficking between the Endoplasmic Reticulum and the Golgi Bodies and Is Important to Pollen Tube Growth[W]. Plant Cell, 2002, 14, 945-962.	6.6	178
18	Rab11 GTPase-Regulated Membrane Trafficking Is Crucial for Tip-Focused Pollen Tube Growth in Tobacco. Plant Cell, 2005, 17, 2564-2579.	6.6	174

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19	The Regulatory RAB and ARF GTPases for Vesicular Trafficking Â. Plant Physiology, 2008, 147, 1516-1526.	4.8	170
20	Actin-Depolymerizing Factor Mediates Rac/Rop GTPaseâ€“Regulated Pollen Tube Growth. Plant Cell, 2003, 15, 237-249.	6.6	164
21	FERONIA and Her Pals: Functions and Mechanisms. Plant Physiology, 2016, 171, 2379-2392.	4.8	158
22	A pollen tube growth-promoting arabinogalactan protein from Nicotiana alata is similar to the tobacco TTS protein. Plant Journal, 2000, 22, 165-176.	5.7	155
23	Pollen Tubes Lacking a Pair of K+ Transporters Fail to Target Ovules inArabidopsisÂ Â Â. Plant Cell, 2011, 23, 81-93.	6.6	148
24	THESEUS 1, FERONIA and relatives: a family of cell wall-sensing receptor kinases?. Current Opinion in Plant Biology, 2011, 14, 632-641.	7.1	142
25	FERONIA controls pectin- and nitric oxide-mediated maleâ€“female interaction. Nature, 2020, 579, 561-566.	27.8	137
26	A transmembrane formin nucleates subapical actin assembly and controls tip-focused growth in pollen tubes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16390-16395.	7.1	133
27	Exclusion of a Proton ATPase from the Apical Membrane Is Associated with Cell Polarity and Tip Growth inNicotiana tabacumPollen Tubes. Plant Cell, 2008, 20, 614-634.	6.6	121
28	Pollen PCP-B peptides unlock a stigma peptideâ€“receptor kinase gating mechanism for pollination. Science, 2021, 372, 171-175.	12.6	113
29	Fiddlehead: An Arabidopsis mutant constitutively expressing an organ fusion program that involves interactions between epidermal cells. Developmental Biology, 1992, 152, 383-392.	2.0	112
30	The Dynamic Pollen Tube Cytoskeleton: Live Cell Studies Using Actin-Binding and Microtubule-Binding Reporter Proteins. Molecular Plant, 2008, 1, 686-702.	8.3	100
31	RAC/ROP GTPases and Auxin Signaling. Plant Cell, 2011, 23, 1208-1218.	6.6	98
32	Pollenâ€”pistil interactions during pollen-tube growth. Trends in Plant Science, 1996, 1, 45-51.	8.8	97
33	Pollination induces mRNA poly(A) tail-shortening and cell deterioration in flower transmitting tissue. Plant Journal, 1996, 9, 715-727.	5.7	97
34	A flower-specific cDNA encoding a novel thionin in tobacco. Molecular Genetics and Genomics, 1992, 234, 89-96.	2.4	94
35	RAC GTPases in Tobacco and Arabidopsis Mediate Auxin-Induced Formation of Proteolytically Active Nuclear Protein Bodies That Contain AUX/IAA Proteins. Plant Cell, 2005, 17, 2369-2383.	6.6	90
36	LLG2/3 Are Co-receptors in BUPS/ANX-RALF Signaling to Regulate Arabidopsis Pollen Tube Integrity. Current Biology, 2019, 29, 3256-3265.e5.	3.9	87

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37	Promiscuous Germination and Growth of Wildtype Pollen from Arabidopsis and Related Species on the Shoot of the Arabidopsis Mutant, fiddlehead. Developmental Biology, 1993, 155, 250-258.	2.0	77
38	The pollen tube journey in the pistil and imaging the in vivo process by two-photon microscopy. Journal of Experimental Botany, 2010, 61, 1907-1915.	4.8	76
39	Regulation of pollen tube growth by Rac-like GTPases. Journal of Experimental Botany, 2003, 54, 73-81.	4.8	72
40	Structural and functional compartmentalization in pollen tubes. Journal of Experimental Botany, 2006, 58, 75-82.	4.8	66
41	RALF peptide signaling controls the polytubey block in Arabidopsis. Science, 2022, 375, 290-296.	12.6	65
42	FERONIA receptor kinase-regulated reactive oxygen species mediate self-incompatibility in Brassica rapa. Current Biology, 2021, 31, 3004-3016.e4.	3.9	63
43	Characterization of cDNAs for stylar transmitting tissue-specific proline-rich proteins in tobacco. Plant Journal, 1993, 3, 151-160.	5.7	58
44	PLANT BIOLOGY: Pollen Tube Guidance--Right on Target. Science, 2001, 293, 1441-1442.	12.6	57
45	Pollen tube integrity regulation in flowering plants: insights from molecular assemblies on the pollen tube surface. New Phytologist, 2019, 222, 687-693.	7.3	57
46	RopGEF7Regulates PLETHORA-Dependent Maintenance of the Root Stem Cell Niche inArabidopsisÂ Â Â. Plant Cell, 2011, 23, 2880-2894.	6.6	55
47	Arabidopsis and Tobacco SUPERMAN regulate hormone signalling and mediate cell proliferation and differentiation. Journal of Experimental Botany, 2011, 62, 949-961.	4.8	54
48	Hyper, a Hydrogen Peroxide Sensor, Indicates the Sensitivity of the Arabidopsis Root Elongation Zone to Aluminum Treatment. Sensors, 2015, 15, 855-867.	3.8	52
49	New insights into the functional roles of CrRLKs in the control of plant cell growth and development. Plant Signaling and Behavior, 2011, 6, 655-659.	2.4	51
50	Apical <scp>F</scp>â€actinâ€regulated exocytic targeting of <scp>N</scp>t<scp>PPME</scp>1 is essential for construction and rigidity of the pollen tube cell wall. Plant Journal, 2013, 76, 367-379.	5.7	50
51	The pollen tupe growth pathway: its molecular and biochemical contributions and responses to pollination. Sexual Plant Reproduction, 1996, 9, 330-336.	2.2	48
52	ROP3 GTPase Contributes to Polar Auxin Transport and Auxin Responses and Is Important for Embryogenesis and Seedling Growth inArabidopsisÂ Â. Plant Cell, 2014, 26, 3501-3518.	6.6	46
53	Autophagy-mediated compartmental cytoplasmic deletion is essential for tobacco pollen germination and male fertility. Autophagy, 2020, 16, 2180-2192.	9.1	35
54	Using Hyper as a Molecular Probe to Visualize Hydrogen Peroxide in Living Plant Cells. Methods in Enzymology, 2013, 527, 275-290.	1.0	30

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55	The Arabidopsis small GTPase AtRAC7/ROP9 is a modulator of auxin and abscisic acid signalling. Journal of Experimental Botany, 2013, 64, 3425-3437.	4.8	26
56	RopGEF1 Plays a Critical Role in Polar Auxin Transport in Early Development. Plant Physiology, 2017, 175, 157-171.	4.8	25
57	Nuclear male sterility induced by pollen-specific expression of a ribonuclease. Sexual Plant Reproduction, 1996, 9, 35.	2.2	24
58	Receptor-like kinases as surface regulators for RAC/ROP-mediated pollen tube growth and interaction with the pistil. AoB PLANTS, 2011, 2011, plr017.	2.3	24
59	Transporters involved in pH and K+ homeostasis affect pollen wall formation, male fertility, and embryo development. Journal of Experimental Botany, 2017, 68, 3165-3178.	4.8	24
60	An atypical aspartic protease modulates lateral root development in Arabidopsis thaliana. Journal of Experimental Botany, 2019, 70, 2157-2171.	4.8	24
61	Malectin/Malectin-like domain-containing proteins: A repertoire of cell surface molecules with broad functional potential. Cell Surface, 2021, 7, 100056.	3.0	23
62	Characterization of a Rice Pollen-Specific Gene and Its Expression. American Journal of Botany, 1994, 81, 552.	1.7	22
63	Characterization of a rice pollenâ€specific gene and its expression. American Journal of Botany, 1994, 81, 552-561.	1.7	21
64	Membrane Trafficking: Intracellular Highways and Country Roads. Plant Physiology, 2008, 147, 1451-1453.	4.8	21
65	Auxin efflux controls orderly nucellar degeneration and expansion of the female gametophyte in Arabidopsis. New Phytologist, 2021, 230, 2261-2274.	7.3	21
66	Glycosylphosphatidylinositol Anchoring: Control through Modification. Plant Physiology, 2014, 166, 748-750.	4.8	20
67	Update on Receptors and Signaling. Plant Physiology, 2020, 182, 1527-1530.	4.8	20
68	Imaging elongating pollen tubes by green fluorescent protein. Sexual Plant Reproduction, 2001, 14, 9-14.	2.2	19
69	SIPP, a Novel Mitochondrial Phosphate Carrier, Mediates in Self-Incompatibility. Plant Physiology, 2017, 175, 1105-1120.	4.8	19
70	LURE is bait for multiple receptors. Nature, 2016, 531, 178-180.	27.8	18
71	Focus on Flowering and Reproduction. Plant Physiology, 2017, 173, 1-4.	4.8	15
72	Pollen Germination Activates the Apical Membrane-Located RAC/ROP GTPase Switch. Molecular Plant, 2013, 6, 1358-1361.	8.3	12

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73	Stomatal Patterning: SERKs Put the Mouths in Their Right Place. Current Biology, 2015, 25, R838-R840.	3.9	12
74	Development and Pollination Regulated Accumulation and Glycosylation of a Stylar Transmitting Tissue-Specific Proline-Rich Protein. Plant Cell, 1993, 5, 1639.	6.6	11
75	Programmed cell death in plant reproduction. , 2000, , 23-37.		7
76	Nuclear Architecture and Dynamics: Territories, Nuclear Bodies, and Nucleocytoplasmic Trafficking. Plant Physiology, 2012, 158, 23-25.	4.8	7
77	A rich and bountiful harvest: Key discoveries in plant cell biology. Plant Cell, 2022, 34, 53-71.	6.6	7
78	Transcriptional, Post-Transcriptional and Post-Translational Regulation of a Nicotiana Stylar Transmitting Tissue-Specific Arabinogalactan-Protein. , 2000, , 133-148.		7
79	Contextâ€specific dependence on <scp>FERONIA</scp> kinase activity. FEBS Letters, 2018, 592, 2392-2394.	2.8	6
80	Programmed Cell Death in Stigmatic Papilla Cells Is Associated With Senescence-Induced Self-Incompatibility Breakdown in Chinese Cabbage and Radish. Frontiers in Plant Science, 2020, 11, 586901.	3.6	6
81	The pollen tupe growth pathway: its molecular and biochemical contributions and responses to pollination. Sexual Plant Reproduction, 1996, 9, 330-336.	2.2	5
82	Plant Biology: To Live, or Not to Live, That Is the Question. Current Biology, 2019, 29, R1186-R1189.	3.9	3
83	Cell Death in Plant Development and Defense. , 2005, , 99-121.		2
84	Genes encoding cell wall proteins. Plant Molecular Biology Reporter, 1996, 14, 9-10.	1.8	1
85	RAC/ROP GTPases in the Regulation of Polarity and Polar Cell Growth. Signaling and Communication in Plants, 2010, , 105-122.	0.7	1
86	Plant reproduction: does size matter?. New Phytologist, 2011, 190, 812-815.	7.3	0