Wei-Cai Yang

List of Publications by Year
in descending order

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87 papers	7,237 citations	57758 44 h-index	58581 82 g-index
90 all docs	90 docs citations	90 times ranked	7849 citing authors

#	Article	IF	Citations
1	Quantitative proteomics reveals key pathways in the symbiotic interface and the likely extracellular property of soybean symbiosome. Journal of Genetics and Genomics, 2023, 50, 7-19.	3.9	13
2	Nucleolar histone deacetylases HDT1, HDT2, and HDT3 regulate plant reproductive development. Journal of Genetics and Genomics, 2022, 49, 30-39.	3.9	14
3	The poly(A) polymerase PAPS1 mediates pollen maturation by regulating sperm cell differentiation in plants. Plant Direct, 2022, 6, e397.	1.9	5
4	POD1-SUN-CRT3 chaperone complex guards the ER sorting of LRR receptor kinases in Arabidopsis. Nature Communications, 2022, 13, 2703.	12.8	5
5	Central Cell in Flowering Plants: Specification, Signaling, and Evolution. Frontiers in Plant Science, 2020, 11, 590307.	3.6	11
6	The functions of kinesin and kinesin-related proteins in eukaryotes. Cell Adhesion and Migration, 2020, 14, 139-152.	2.7	46
7	Plasma membrane H + â€ATPasesâ€mediated cytosolic proton gradient regulates pollen tube growth. Journal of Integrative Plant Biology, 2020, 62, 1817-1822.	8.5	18
8	Transcriptional repression specifies the central cell for double fertilization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6231-6236.	7.1	10
9	Pentatricopeptide repeat protein MID1 modulates nad2 intron 1 splicing and Arabidopsis development. Scientific Reports, 2020, 10, 2008.	3.3	12
10	The Arabidopsis TRM61/TRM6 complex is a bona fide tRNA N1-methyladenosine methyltransferase. Journal of Experimental Botany, 2020, 71, 3024-3036.	4.8	15
11	Integration of ovular signals and exocytosis of a Ca2+ channel by MLOs in pollen tube guidance. Nature Plants, 2020, 6, 143-153.	9.3	56
12	PINOID regulates floral organ development by modulating auxin transport and interacts with MADS16 in rice. Plant Biotechnology Journal, 2020, 18, 1778-1795.	8.3	28
13	Why are ATP-driven microtubule minus-end directed motors critical to plants? An overview of plant multifunctional kinesins. Functional Plant Biology, 2020, 47, 524.	2.1	5
14	Maternal control of suspensor programmed cell death via gibberellin signaling. Nature Communications, 2019, 10, 3484.	12.8	21
15	TICKET attracts pollen tubes and mediates reproductive isolation between relative species in Brassicaceae. Science China Life Sciences, 2019, 62, 1413-1419.	4.9	31
16	LOT regulates TGN biogenesis and Golgi structure in plants. Plant Signaling and Behavior, 2019, 14, e1573100.	2.4	1
17	BICELLULAR POLLEN 1 is a modulator of <scp>DNA</scp> replication and pollen development in Arabidopsis. New Phytologist, 2019, 222, 588-603.	7.3	15
18	Special issue on plant reproduction research in Asia. Plant Reproduction, 2018, 31, 1-2.	2.2	6

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19	Multilayered signaling pathways for pollen tube growth and guidance. Plant Reproduction, 2018, 31, 31-41.	2.2	32
20	Ligands Switch Model for Pollen-Tube Integrity and Burst. Trends in Plant Science, 2018, 23, 369-372.	8.8	13
21	Golgi-localized LOT regulates trans -Golgi network biogenesis and pollen tube growth. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12307-12312.	7.1	27
22	Gnp4/LAX2, a RAWUL protein, interferes with the OsIAA3â€“OsARF25 interaction to regulate grain length via the auxin signaling pathway in rice. Journal of Experimental Botany, 2018, 69, 4723-4737.	4.8	62
23	Comparative genomics of the nonlegume Parasponia reveals insights into evolution of nitrogen-fixing rhizobium symbioses. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4700-E4709.	7.1	253
24	OsLG3 contributing to rice grain length and yield was mined by Ho-LAMap. BMC Biology, 2017, 15, 28.	3.8	100
25	Gametophytic Pollen Tube Guidance: Attractant Peptides, Gametic Controls, and Receptors. Plant Physiology, 2017, 173, 112-121.	4.8	100
26	Transmission Electron Microscopy (TEM) to Study Histology of Pollen and Pollen Tubes. Methods in Molecular Biology, 2017, 1669, 181-189.	0.9	7
27	Analysis of Peroxisome Biogenesis in Pollen by Confocal Microscopy and Transmission Electron Microscopy. Methods in Molecular Biology, 2017, 1669, 173-180.	0.9	4
28	The integration of Gî² and MAPK signaling cascade in zygote development. Scientific Reports, 2017, 7, 8732.	3.3	32
29	New Insights into 5hmC DNA Modification: Generation, Distribution and Function. Frontiers in Genetics, 2017, 8, 100.	2.3	166
30	The Arabidopsis Receptor Kinase ZAR1 Is Required for Zygote Asymmetric Division and Its Daughter Cell Fate. PLoS Genetics, 2016, 12, e1005933.	3.5	72
31	Anthocyanin accumulation enhanced in Lc-transgenic cotton under light and increased resistance to bollworm. Plant Biotechnology Reports, 2016, 10, 1-11.	1.5	46
32	Receptor-like kinases take center stage in plant biology. Science China Life Sciences, 2016, 59, 863-866.	4.9	10
33	RLKs orchestrate the signaling in plant male-female interaction. Science China Life Sciences, 2016, 59, 867-877.	4.9	28
34	A receptor heteromer mediates the male perception of female attractants in plants. Nature, 2016, 531, 241-244.	27.8	190
35	The strigolactone biosynthesis gene DWARF27 is co-opted in rhizobium symbiosis. BMC Plant Biology, 2015, 15, 260.	3.6	118
36	High-Efficiency Genome Editing in Arabidopsis Using YAO Promoter-Driven CRISPR/Cas9 System. Molecular Plant, 2015, 8, 1820-1823.	8.3	349

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37	Arabidopsis CBP1 Is a Novel Regulator of Transcription Initiation in Central Cell-Mediated Pollen Tube Guidance. Plant Cell, 2015, 27, 2880-2893.	6.6	54
38	The Arabidopsis alkaline ceramidase TOD1 is a key turgor pressure regulator in plant cells. Nature Communications, 2015, 6, 6030.	12.8	49
39	A Single Nucleotide Deletion in Gibberellin20-oxidase1 Causes Alpine Dwarfism in Arabidopsis. Plant Physiology, 2015, 168, 930-937.	4.8	22
40	Allosteric receptor activation by the plant peptide hormone phytosulfokine. Nature, 2015, 525, 265-268.	27.8	192
41	ArabidopsisDAYU/ABERRANT PEROXISOME MORPHOLOGY9 Is a Key Regulator of Peroxisome Biogenesis and Plays Critical Roles during Pollen Maturation and Germination in Planta. Plant Cell, 2014, 26, 619-635.	6.6	41
42	SPOROCYTELESS Is a Novel Embryophyte-Specific Transcription Repressor that Interacts with TPL and TCP Proteins in Arabidopsis. Journal of Genetics and Genomics, 2014, 41, 617-625.	3.9	38
43	Arabidopsis RAN1 Mediates Seed Development through Its Parental Ratio by Affecting the Onset of Endosperm Cellularization. Molecular Plant, 2014, 7, 1316-1328.	8.3	20
44	Cloning of Ln Gene Through Combined Approach of Map-based Cloning and Association Study in Soybean. Journal of Genetics and Genomics, 2013, 40, 93-96.	3.9	27
45	Transcriptome Analysis Reveals Crosstalk of Responsive Genes to Multiple Abiotic Stresses in Cotton (Gossypium hirsutum L.). PLoS ONE, 2013, 8, e80218.	2.5	105
46	Small RNA Profiling in Two Brassica napus Cultivars Identifies MicroRNAs with Oil Production- and Development-Correlated Expression and New Small RNA Classes Â Â. Plant Physiology, 2012, 158, 813-823.	4.8	111
47	GAMETOPHYTE DEFECTIVE 1, a Putative Subunit of RNases P/MRP, Is Essential for Female Gametogenesis and Male Competence in Arabidopsis. PLoS ONE, 2012, 7, e33595.	2.5	20
48	Emerging role of ER quality control in plant cell signal perception. Protein and Cell, 2012, 3, 10-16.	11.0	9
49	Transgenic Crops: An Option for Future Agriculture. Journal of Integrative Plant Biology, 2011, 53, 510-511.	8.5	1
50	Ovule development in Arabidopsis: progress and challenge. Current Opinion in Plant Biology, 2011, 14, 74-80.	7.1	66
51	Patterning the embryo in higher plants: Emerging pathways and challenges. Frontiers in Biology, 2011, 6, 3-11.	0.7	4
52	POD1 Regulates Pollen Tube Guidance in Response to Micropylar Female Signaling and Acts in Early Embryo Patterning inArabidopsisÂ Â. Plant Cell, 2011, 23, 3288-3302.	6.6	71
53	Strigolactone Biosynthesis in Medicago Âtruncatula and Rice Requires the Symbiotic GRAS-Type Transcription Factors NSP1 and NSP2 Â. Plant Cell, 2011, 23, 3853-3865.	6.6	291
54	YAO is a nucleolar WD40-repeat protein critical for embryogenesis and gametogenesis in Arabidopsis. BMC Plant Biology, 2010, 10, 169.	3.6	60

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55	SLOW WALKER3, Encoding a Putative DEADâ€box RNA Helicase, is Essential for Female Gametogenesis in Arabidopsis. Journal of Integrative Plant Biology, 2010, 52, 817-828.	8.5	50
56	BLOS1, a putative BLOC-1 subunit, interacts with SNX1 and modulates root growth in Arabidopsis. Journal of Cell Science, 2010, 123, 3727-3733.	2.0	27
57	ArabidopsisHistidine Kinase CKI1 Acts Upstream of HISTIDINE PHOSPHOTRANSFER PROTEINS to Regulate Female Gametophyte Development and Vegetative Growth Â. Plant Cell, 2010, 22, 1232-1248.	6.6	127
58	Female Gametophyte Development in Flowering Plants. Annual Review of Plant Biology, 2010, 61, 89-108.	18.7	159
59	SLOW WALKER2, a NOC1/MAK21 Homologue, Is Essential for Coordinated Cell Cycle Progression during Female Gametophyte Development in Arabidopsis. Plant Physiology, 2009, 151, 1486-1497.	4.8	59
60	GAMETOPHYTIC FACTOR 1, Involved in Preâ€mRNA Splicing, Is Essential for Megagametogenesis and Embryogenesis in Arabidopsis. Journal of Integrative Plant Biology, 2009, 51, 261-271.	8.5	48
61	Conserved miRNA analysis in Gossypium hirsutum through small RNA sequencing. Genomics, 2009, 94, 263-268.	2.9	79
62	Novel Nuclear Protein ALCâ€INTERACTING PROTEIN1 is Expressed in Vascular and Mesocarp Cells inArabidopsis. Journal of Integrative Plant Biology, 2008, 50, 918-927.	8.5	4
63	Isolation of Embryo-Specific Mutants in Arabidopsis. Methods in Molecular Biology, 2008, 427, 91-100.	0.9	3
64	Isolation of Embryo-Specific Mutants in Arabidopsis. Methods in Molecular Biology, 2008, 427, 101-109.	0.9	4
65	Targeted Degradation of the Cyclin-Dependent Kinase Inhibitor ICK4/KRP6 by RING-Type E3 Ligases Is Essential for Mitotic Cell Cycle Progression duringArabidopsisGametogenesis Â. Plant Cell, 2008, 20, 1538-1554.	6.6	142
66	The R2R3 MYB Transcription Factor GhMYB109 Is Required for Cotton Fiber Development. Genetics, 2008, 180, 811-820.	2.9	156
67	The Central Cell Plays a Critical Role in Pollen Tube Guidance inArabidopsis. Plant Cell, 2007, 19, 3563-3577.	6.6	163
68	The FERONIA Receptor-like Kinase Mediates Male-Female Interactions During Pollen Tube Reception. Science, 2007, 317, 656-660.	12.6	596
69	Effects of hygromycin on cotton cultures and its application in Agrobacterium-mediated cotton transformation. In Vitro Cellular and Developmental Biology - Plant, 2007, 43, 111-118.	2.1	16
70	Arabidopsis GLUTAMINE-RICH PROTEIN23 Is Essential for Early Embryogenesis and Encodes a Novel Nuclear PPR Motif Protein That Interacts with RNA Polymerase II Subunit III. Plant Cell, 2006, 18, 815-830.	6.6	139
71	Transgenic expression of DwMYB2 impairs iron transport from root to shoot in Arabidopsis thaliana. Cell Research, 2006, 16, 830-840.	12.0	32
72	RPA, a Class II ARFGAP Protein, Activates ARF1 and U5 and Plays a Role in Root Hair Development in Arabidopsis. Plant Physiology, 2006, 141, 966-976.	4.8	56

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73	SLOW WALKER1, Essential for Gametogenesis in Arabidopsis, Encodes a WD40 Protein Involved in 18S Ribosomal RNA Biogenesis. Plant Cell, 2005, 17, 2340-2354.	6.6	163
74	Overexpression of TAPETUM DETERMINANT1 Alters the Cell Fates in the Arabidopsis Carpel and Tapetum via Genetic Interaction with EXCESS MICROSPOROCYTES1/EXTRA SPOROGENOUS CELLS. Plant Physiology, 2005, 139, 186-191.	4.8	107
75	VANGUARD1 Encodes a Pectin Methylesterase That Enhances Pollen Tube Growth in the Arabidopsis Style and Transmitting Tract. Plant Cell, 2005, 17, 584-596.	6.6	386
76	The Cotton ACTIN1 Gene Is Functionally Expressed in Fibers and Participates in Fiber Elongation. Plant Cell, 2005, 17, 859-875.	6.6	330
77	Characterization, expression and phylogenetic study of R2R3-MYB genes in orchid. Plant Molecular Biology, 2003, 51, 959-972.	3.9	38
78	TAPETUM DETERMINANT1 Is Required for Cell Specialization in the Arabidopsis Anther. Plant Cell, 2003, 15, 2792-2804.	6.6	305
79	Title is missing!. Plant and Soil, 2001, 230, 1-8.	3.7	53
80	Genetics of gametophyte biogenesis in Arabidopsis. Current Opinion in Plant Biology, 2000, 3, 53-57.	7.1	102
81	Analysis of Flanking Sequences fromDissociationInsertion Lines: A Database for Reverse Genetics in Arabidopsis. Plant Cell, 1999, 11, 2263-2270.	6.6	287
82	Early nodulin gene expression during Nod factor-induced processes in Vicia sativa. Plant Journal, 1995, 8, 111-119.	5.7	57
83	VsENOD5, VsENOD12 and VsENOD40 expression during Rhizobium-induced nodule formation on Vicia sativa roots. Plant Molecular Biology, 1995, 28, 1111-1119.	3.9	54
84	The root epidermis-specific pea gene RH2 is homologous to a pathogenesis-related gene. Plant Molecular Biology, 1994, 26, 39-50.	3.9	55
85	Comparison of soybean and pea ENOD40 cDNA clones representing genes expressed during both early and late stages of nodule development. Plant Molecular Biology, 1994, 26, 487-493.	3.9	48
86	Characterization of GmENOD40 , a gene showing novel patterns of cell-specific expression during soybean nodule development. Plant Journal, 1993, 3, 573-585.	5.7	224
87	In-situ localization of chalcone synthase mRNA in pea root nodule development. Plant Journal, 1992, 2, 143-151.	5.7	58