

Jin-Fang Chu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	3,622 citations	29 h-index	59 g-index
87 ext. papers	5,281 ext. citations	9.9 avg, IF	5.2 L-index

#	Paper	IF	Citations
78	Gibberellins regulate lateral root development that is associated with auxin and cell wall metabolisms in cucumber.. <i>Plant Science</i> , 2022 , 317, 110995	5.3	0
77	AtCPS V326M significantly affect the biosynthesis of gibberellins.. <i>Yi Chuan = Hereditas / Zhongguo Yi Chuan Xue Hui Bian Ji</i> , 2022 , 44, 245-252	1.4	
76	High ammonium inhibits root growth in <i>Arabidopsis thaliana</i> by promoting auxin conjugation rather than inhibiting auxin biosynthesis. <i>Journal of Plant Physiology</i> , 2021 , 261, 153415	3.6	5
75	The <i>Welwitschia</i> genome reveals a unique biology underpinning extreme longevity in deserts. <i>Nature Communications</i> , 2021 , 12, 4247	17.4	9
74	Overexpression of ovate family protein 22 confers multiple morphological changes and represses gibberellin and brassinosteroid signalings in transgenic rice. <i>Plant Science</i> , 2021 , 304, 110734	5.3	3
73	Multi-analysis of sheath senescence provides new insights into bamboo shoot development at the fast growth stage. <i>Tree Physiology</i> , 2021 , 41, 491-507	4.2	6
72	MIT1, encoding a 15-cis- β -carotene isomerase, regulates tiller number and stature in rice. <i>Journal of Genetics and Genomics</i> , 2021 , 48, 88-91	4	2
71	The mechanism for brassinosteroids suppressing climacteric fruit ripening. <i>Plant Physiology</i> , 2021 , 185, 1875-1893	6.6	5
70	The chromatin remodeling complex imitation of switch controls stamen filament elongation by promoting jasmonic acid biosynthesis in <i>Arabidopsis</i> . <i>Journal of Genetics and Genomics</i> , 2021 , 48, 123-133	4	0
69	The PIF1-miR408-PLANTACYANIN repression cascade regulates light-dependent seed germination. <i>Plant Cell</i> , 2021 , 33, 1506-1529	11.6	7
68	WRKY46 promotes ammonium tolerance in <i>Arabidopsis</i> by repressing NUDX9 and indole-3-acetic acid-conjugating genes and by inhibiting ammonium efflux in the root elongation zone. <i>New Phytologist</i> , 2021 , 232, 190-207	9.8	5
67	Brassinosteroid homeostasis is critical for the functionality of the <i>Medicago truncatula</i> pulvinus. <i>Plant Physiology</i> , 2021 , 185, 1745-1763	6.6	2
66	Strigolactone and Karrikin Signaling Pathways Elicit Ubiquitination and Proteolysis of SMXL2 to Regulate Hypocotyl Elongation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2020 , 32, 2251-2270	11.6	38
65	Gibberellin Metabolism in Flowering Plants: An Update and Perspectives. <i>Frontiers in Plant Science</i> , 2020 , 11, 532	6.2	10
64	Transcriptional regulation of strigolactone signalling in <i>Arabidopsis</i> . <i>Nature</i> , 2020 , 583, 277-281	50.4	68
63	Cysteine protease RD21A regulated by E3 ligase SINAT4 is required for drought-induced resistance to <i>Pseudomonas syringae</i> in <i>Arabidopsis</i> . <i>Journal of Experimental Botany</i> , 2020 , 71, 5562-5576	7	4
62	The GDSL Lipase MHZ11 Modulates Ethylene Signaling in Rice Roots. <i>Plant Cell</i> , 2020 , 32, 1626-1643	11.6	9

61	Chemical Deprenylation of N-Isopentenyladenosine (i A) RNA. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10645-10650	16.4	11
60	TaANR1-TaBG1 and TaWabi5-TaNRT2s/NARs Link ABA Metabolism and Nitrate Acquisition in Wheat Roots. <i>Plant Physiology</i> , 2020 , 182, 1440-1453	6.6	13
59	The Arabidopsis TRM61/TRM6 complex is a bona fide tRNA N1-methyladenosine methyltransferase. <i>Journal of Experimental Botany</i> , 2020 , 71, 3024-3036	7	7
58	Rapid and specific isolation of intact mitochondria from Arabidopsis leaves. <i>Journal of Genetics and Genomics</i> , 2020 , 47, 65-68	4	5
57	An Arabidopsis Secondary Metabolite Directly Targets Expression of the Bacterial Type III Secretion System to Inhibit Bacterial Virulence. <i>Cell Host and Microbe</i> , 2020 , 27, 601-613.e7	23.4	29
56	A Strigolactone Biosynthesis Gene Contributed to the Green Revolution in Rice. <i>Molecular Plant</i> , 2020 , 13, 923-932	14.4	35
55	Natural variations in the promoter of Awn Length Inhibitor 1 (ALI-1) are associated with awn elongation and grain length in common wheat. <i>Plant Journal</i> , 2020 , 101, 1075-1090	6.9	13
54	Promotion of BR Biosynthesis by miR444 Is Required for Ammonium-Triggered Inhibition of Root Growth. <i>Plant Physiology</i> , 2020 , 182, 1454-1466	6.6	19
53	Carotene Isomerase Suppresses Tillering in Rice through the Coordinated Biosynthesis of Strigolactone and Absciscic Acid. <i>Molecular Plant</i> , 2020 , 13, 1784-1801	14.4	21
52	FIS1 encodes a GA2-oxidase that regulates fruit firmness in tomato. <i>Nature Communications</i> , 2020 , 11, 5844	17.4	16
51	Brassinosteroid-Activated BRI1-EMS-SUPPRESSOR 1 Inhibits Flavonoid Biosynthesis and Coordinates Growth and UV-B Stress Responses in Plants. <i>Plant Cell</i> , 2020 , 32, 3224-3239	11.6	22
50	The Rice Circadian Clock Regulates Tiller Growth and Panicle Development Through Strigolactone Signaling and Sugar Sensing. <i>Plant Cell</i> , 2020 , 32, 3124-3138	11.6	28
49	DROOPY LEAF1 controls leaf architecture by orchestrating early brassinosteroid signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 21766-21774	11.5	16
48	A Tailored High-Efficiency Sample Pretreatment Method for Simultaneous Quantification of 10 Classes of Known Endogenous Phytohormones. <i>Plant Communications</i> , 2020 , 1, 100047	9	12
47	Strigolactone promotes cytokinin degradation through transcriptional activation of in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14319-14324	11.5	46
46	A transcriptome analysis reveals a role for the indole GLS-linked auxin biosynthesis in secondary dormancy in rapeseed (<i>Brassica napus</i> L.). <i>BMC Plant Biology</i> , 2019 , 19, 264	5.3	7
45	Leaf-Derived Jasmonate Mediates Water Uptake from Hydrated Cotton Roots under Partial Root-Zone Irrigation. <i>Plant Physiology</i> , 2019 , 180, 1660-1676	6.6	18
44	Cellular and molecular characterization of a thick-walled variant reveal a pivotal role of shoot apical meristem in transverse development of bamboo culm. <i>Journal of Experimental Botany</i> , 2019 , 70, 3911-3926	7.26	18

43	A Crucial Role of GA-Regulated Flavonol Biosynthesis in Root Growth of Arabidopsis. <i>Molecular Plant</i> , 2019 , 12, 521-537	14.4	43
42	JAZ proteins modulate seed germination through interaction with ABI5 in bread wheat and Arabidopsis. <i>New Phytologist</i> , 2019 , 223, 246-260	9.8	56
41	Gene Characterization and Expression Analysis Reveal the Importance of Auxin Signaling in Bud Dormancy Regulation in Tea Plant. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 225-240	4.7	7
40	AtDPG1 is involved in the salt stress response of Arabidopsis seedling through ABI4. <i>Plant Science</i> , 2019 , 287, 110180	5.3	5
39	CYP72A enzymes catalyse 13-hydrolyzation of gibberellins. <i>Nature Plants</i> , 2019 , 5, 1057-1065	11.5	28
38	A wheat dominant dwarfing line with Rht12, which reduces stem cell length and affects gibberellic acid synthesis, is a 5AL terminal deletion line. <i>Plant Journal</i> , 2019 , 97, 887-900	6.9	18
37	Pursuing extreme sensitivity for determination of endogenous brassinosteroids through direct fishing from plant matrices and eliminating most interferences with boronate affinity magnetic nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 1363-1374	4.4	8
36	TCP Transcription Factors Regulate Shade Avoidance via Directly Mediating the Expression of Both s and Auxin Biosynthetic Genes. <i>Plant Physiology</i> , 2018 , 176, 1850-1861	6.6	36
35	Malate transported from chloroplast to mitochondrion triggers production of ROS and PCD in Arabidopsis thaliana. <i>Cell Research</i> , 2018 , 28, 448-461	24.7	71
34	High ambient temperature antagonizes ethylene-induced exaggerated apical hook formation in etiolated Arabidopsis seedlings. <i>Plant, Cell and Environment</i> , 2018 , 41, 2858-2868	8.4	10
33	ZmbZIP4 Contributes to Stress Resistance in Maize by Regulating ABA Synthesis and Root Development. <i>Plant Physiology</i> , 2018 , 178, 753-770	6.6	65
32	Mutations in the MIT3 gene encoding a carotenoid isomerase lead to increased tiller number in rice. <i>Plant Science</i> , 2018 , 267, 1-10	5.3	15
31	MdWRKY9 overexpression confers intensive dwarfing in the M26 rootstock of apple by directly inhibiting brassinosteroid synthetase MdDWF4 expression. <i>New Phytologist</i> , 2018 , 217, 1086-1098	9.8	40
30	The chemodiversity of paddy soil dissolved organic matter correlates with microbial community at continental scales. <i>Microbiome</i> , 2018 , 6, 187	16.6	71
29	Endosperm sugar accumulation caused by mutation of PHS8/ISA1 leads to pre-harvest sprouting in rice. <i>Plant Journal</i> , 2018 , 95, 545-556	6.9	28
28	P-HYDROXYPHENYLPYRUVATE DIOXYGENASE from Medicago sativa is involved in vitamin E biosynthesis and abscisic acid-mediated seed germination. <i>Scientific Reports</i> , 2017 , 7, 40625	4.9	10
27	Arabidopsis WRKY46, WRKY54, and WRKY70 Transcription Factors Are Involved in Brassinosteroid-Regulated Plant Growth and Drought Responses. <i>Plant Cell</i> , 2017 , 29, 1425-1439	11.6	178
26	Jasmonate inhibits COP1 activity to suppress hypocotyl elongation and promote cotyledon opening in etiolated Arabidopsis seedlings. <i>Plant Journal</i> , 2017 , 90, 1144-1155	6.9	28

25	UNBRANCHED3 regulates branching by modulating cytokinin biosynthesis and signaling in maize and rice. <i>New Phytologist</i> , 2017 , 214, 721-733	9.8	52
24	A Tripartite Amplification Loop Involving the Transcription Factor WRKY75, Salicylic Acid, and Reactive Oxygen Species Accelerates Leaf Senescence. <i>Plant Cell</i> , 2017 , 29, 2854-2870	11.6	155
23	Quantitative analysis of plant hormones based on LC-MS/MS 2017 , 471-537		8
22	A Comprehensive and Effective Mass Spectrometry-Based Screening Strategy for Discovery and Identification of New Brassinosteroids from Rice Tissues. <i>Frontiers in Plant Science</i> , 2016 , 7, 1786	6.2	10
21	Expression of <i>Vitis amurens</i> NAC26 in <i>Arabidopsis</i> enhances drought tolerance by modulating jasmonic acid synthesis. <i>Journal of Experimental Botany</i> , 2016 , 67, 2829-45	7	58
20	Up-regulating the abscisic acid inactivation gene <i>ZmABA8ox1b</i> contributes to seed germination heterosis by promoting cell expansion. <i>Journal of Experimental Botany</i> , 2016 , 67, 2889-900	7	13
19	DWARF14 is a non-canonical hormone receptor for strigolactone. <i>Nature</i> , 2016 , 536, 469-73	50.4	266
18	Hijacking of the jasmonate pathway by the mycotoxin fumonisin B1 (FB1) to initiate programmed cell death in <i>Arabidopsis</i> is modulated by RGLG3 and RGLG4. <i>Journal of Experimental Botany</i> , 2015 , 66, 2709-21	7	20
17	Tryptophan-independent auxin biosynthesis contributes to early embryogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 4821-6	11.5	120
16	Ethylene responses in rice roots and coleoptiles are differentially regulated by a carotenoid isomerase-mediated abscisic acid pathway. <i>Plant Cell</i> , 2015 , 27, 1061-81	11.6	72
15	PpYUC11, a strong candidate gene for the stony hard phenotype in peach (<i>Prunus persica</i> L. Batsch), participates in IAA biosynthesis during fruit ripening. <i>Journal of Experimental Botany</i> , 2015 , 66, 7031-44	7	63
14	Activation of Big Grain1 significantly improves grain size by regulating auxin transport in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11102-7	11.5	140
13	CHR729 Is a CHD3 Protein That Controls Seedling Development in Rice. <i>PLoS ONE</i> , 2015 , 10, e0138934	3.7	27
12	Impacts of strigolactone on shoot branching under phosphate starvation in chrysanthemum (<i>Dendranthema grandiflorum</i> cv. Jinba). <i>Frontiers in Plant Science</i> , 2015 , 6, 694	6.2	15
11	CYTOKININ OXIDASE/DEHYDROGENASE4 Integrates Cytokinin and Auxin Signaling to Control Rice Crown Root Formation. <i>Plant Physiology</i> , 2014 , 165, 1035-1046	6.6	117
10	OsNAP connects abscisic acid and leaf senescence by fine-tuning abscisic acid biosynthesis and directly targeting senescence-associated genes in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10013-8	11.5	316
9	Strigolactones regulate rice tiller angle by attenuating shoot gravitropism through inhibiting auxin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11199-204	11.5	88
8	Expression patterns of ABA and GA metabolism genes and hormone levels during rice seed development and imbibition: a comparison of dormant and non-dormant rice cultivars. <i>Journal of Genetics and Genomics</i> , 2014 , 41, 327-38	4	36

7	An in-advance stable isotope labeling strategy for relative analysis of multiple acidic plant hormones in sub-milligram <i>Arabidopsis thaliana</i> seedling and a single seed. <i>Journal of Chromatography A</i> , 2014 , 1338, 67-76	4.5	20
6	D14-SCF(D3)-dependent degradation of D53 regulates strigolactone signalling. <i>Nature</i> , 2013 , 504, 406-10.	10.4	483
5	A dual role of boronate affinity in high-sensitivity detection of vicinal diol brassinosteroids from sub-gram plant tissues via UPLC-MS/MS. <i>Analyst</i> , 2013 , 138, 1342-5	5	21
4	An improved simplified high-sensitivity quantification method for determining brassinosteroids in different tissues of rice and <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013 , 162, 2056-66	6.6	42
3	<i>Arabidopsis thaliana</i> plants differentially modulate auxin biosynthesis and transport during defense responses to the necrotrophic pathogen <i>Alternaria brassicicola</i> . <i>New Phytologist</i> , 2012 , 195, 872-882	9.8	72
2	Simple, rapid, and simultaneous assay of multiple carboxyl containing phytohormones in wounded tomatoes by UPLC-MS/MS using single SPE purification and isotope dilution. <i>Analytical Sciences</i> , 2012 , 28, 1081-7	1.7	125
1	Progress in quantitative analysis of plant hormones. <i>Science Bulletin</i> , 2011 , 56, 355-366		52