Shuhua Yang

List of Publications by Year
in descending order

72 papers	9,949 citations	44069 48 h-index	85541 71 g-index
73 all docs	73 docs citations	73 times ranked	7491 citing authors

#	Article	IF	Citations
1	Plant abiotic stress response and nutrient use efficiency. Science China Life Sciences, 2020, 63, 635-674.	4.9	689
2	Ethylene Signaling Negatively Regulates Freezing Tolerance by Repressing Expression of <i>CBF</i> and Type-A <i>ARR</i> Genes in <i>Arabidopsis</i>. Plant Cell, 2012, 24, 2578-2595.	6.6	569
3	Advances and challenges in uncovering cold tolerance regulatory mechanisms in plants. New Phytologist, 2019, 222, 1690-1704.	7.3	512
4	Molecular Regulation of CBF Signaling in Cold Acclimation. Trends in Plant Science, 2018, 23, 623-637.	8.8	508
5	OST1 Kinase Modulates Freezing Tolerance by Enhancing ICE1 Stability in Arabidopsis. Developmental Cell, 2015, 32, 278-289.	7.0	491
6	The <i>cbfs</i> triple mutants reveal the essential functions of <i><scp>CBF</scp>s</i> in cold acclimation and allow the definition of <scp>CBF</scp> regulons in <i>Arabidopsis</i>. New Phytologist, 2016, 212, 345-353.	7.3	360
7	Molecular Regulation of Plant Responses to Environmental Temperatures. Molecular Plant, 2020, 13, 544-564.	8.3	346
8	MPK3- and MPK6-Mediated ICE1 Phosphorylation Negatively Regulates ICE1 Stability and Freezing Tolerance in Arabidopsis. Developmental Cell, 2017, 43, 630-642.e4.	7.0	322
9	A Haplotype-Specific Resistance Gene Regulated by BONZAI1 Mediates Temperature-Dependent Growth Control in Arabidopsis. Plant Cell, 2004, 16, 1060-1071.	6.6	292
10	Plasma Membrane CRPK1-Mediated Phosphorylation of 14-3-3 Proteins Induces Their Nuclear Import to Fine-Tune CBF Signaling during Cold Response. Molecular Cell, 2017, 66, 117-128.e5.	9.7	281
11	Cold Signal Transduction and its Interplay with Phytohormones During Cold Acclimation. Plant and Cell Physiology, 2015, 56, 7-15.	3.1	274
12	Protein kinases in plant responses to drought, salt, and cold stress. Journal of Integrative Plant Biology, 2021, 63, 53-78.	8.5	273
13	BZR1 Positively Regulates Freezing Tolerance via CBF-Dependent and CBF-Independent Pathways in Arabidopsis. Molecular Plant, 2017, 10, 545-559.	8.3	262
14	Degradation of the ABA co-receptor ABI1 by PUB12/13 U-box E3 ligases. Nature Communications, 2015, 6, 8630.	12.8	256
15	Lipid transfer protein 3 as a target of MYB96 mediates freezing and drought stress in Arabidopsis. Journal of Experimental Botany, 2013, 64, 1755-1767.	4.8	243
16	The Antagonistic Action of Abscisic Acid and Cytokinin Signaling Mediates Drought Stress Response in Arabidopsis. Molecular Plant, 2018, 11, 970-982.	8.3	217
17	PIF3 is a negative regulator of the <i>CBF</i> pathway and freezing tolerance in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6695-E6702.	7.1	215
18	Natural variation in CTB4a enhances rice adaptation to cold habitats. Nature Communications, 2017, 8, 14788.	12.8	192

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19	A mutant CHS3 protein with TIRâ€NBâ€LRRâ€LIM domains modulates growth, cell death and freezing tolerance in a temperatureâ€dependent manner in <i>Arabidopsis</i>. Plant Journal, 2010, 63, 283-296.	5.7	170
20	<scp>ABRE</scp>â€<scp>BINDING FACTORS</scp> play a role in the feedback regulation of <scp>ABA</scp> signaling by mediating rapid <scp>ABA</scp> induction of <scp>ABA</scp> coâ€receptor genes. New Phytologist, 2019, 221, 341-355.	7.3	151
21	Insights into the regulation of Câ€repeat binding factors in plant cold signaling. Journal of Integrative Plant Biology, 2018, 60, 780-795.	8.5	140
22	<scp>OST</scp> 1â€mediated <scp>BTF</scp> 3L phosphorylation positively regulates <scp>CBF</scp> s during plant cold responses. EMBO Journal, 2018, 37, .	7.8	134
23	Cold-Induced CBFâ€"PIF3 Interaction Enhances Freezing Tolerance by Stabilizing the phyB Thermosensor in Arabidopsis. Molecular Plant, 2020, 13, 894-906.	8.3	128
24	A Gain-of-Function Mutation in the Arabidopsis Disease Resistance Gene <i>RPP4</i> Confers Sensitivity to Low Temperature Â Â. Plant Physiology, 2010, 154, 796-809.	4.8	114
25	EAR1 Negatively Regulates ABA Signaling by Enhancing 2C Protein Phosphatase Activity. Plant Cell, 2018, 30, 815-834.	6.6	111
26	BRASSINOSTEROID-INSENSITIVE2 Negatively Regulates the Stability of Transcription Factor ICE1 in Response to Cold Stress in Arabidopsis. Plant Cell, 2019, 31, tpc.00058.2019.	6.6	110
27	An Fâ€box gene, <i>CPR30</i>, functions as a negative regulator of the defense response in Arabidopsis. Plant Journal, 2009, 60, 757-770.	5.7	108
28	Rice functional genomics: decadesâ€™ efforts and roads ahead. Science China Life Sciences, 2022, 65, 33-92.	4.9	107
29	PUB25 and PUB26 Promote Plant Freezing Tolerance by Degrading the Cold Signaling Negative Regulator MYB15. Developmental Cell, 2019, 51, 222-235.e5.	7.0	105
30	Surviving and thriving: How plants perceive and respond to temperature stress. Developmental Cell, 2022, 57, 947-958.	7.0	104
31	TheBON/CPNgene family represses cell death and promotes cell growth in Arabidopsis. Plant Journal, 2006, 45, 166-179.	5.7	101
32	ABI4 represses the expression of typeâ€A <i>ARRs</i> to inhibit seed germination in Arabidopsis. Plant Journal, 2017, 89, 354-365.	5.7	100
33	<scp>EGR</scp> 2 phosphatase regulates <scp>OST</scp> 1 kinase activity and freezing tolerance in <i>Arabidopsis</i>. EMBO Journal, 2019, 38, .	7.8	100
34	The calcium transporter ANNEXIN1 mediates coldâ€induced calcium signaling and freezing tolerance in plants. EMBO Journal, 2021, 40, e104559.	7.8	99
35	The Arabidopsis<i>BAP1</i>and<i>BAP2</i>Genes Are General Inhibitors of Programmed Cell Death. Plant Physiology, 2007, 145, 135-146.	4.8	98
36	The Arabidopsis RCC1 Family Protein TCF1 Regulates Freezing Tolerance and Cold Acclimation through Modulating Lignin Biosynthesis. PLoS Genetics, 2015, 11, e1005471.	3.5	92

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37	ESCRT-I Component VPS23A Affects ABA Signaling by Recognizing ABA Receptors for Endosomal Degradation. Molecular Plant, 2016, 9, 1570-1582.	8.3	87
38	The <i>Arabidopsis LSD1</i> gene plays an important role in the regulation of low temperatureâ€dependent cell death. New Phytologist, 2010, 187, 301-312.	7.3	82
39	The transcription factor ICE1 functions in cold stress response by binding to the promoters of <i>CBF</i> and <i>COR</i> genes. Journal of Integrative Plant Biology, 2020, 62, 258-263.	8.5	82
40	BON1 interacts with the protein kinases BIR1 and BAK1 in modulation of temperatureâ€dependent plant growth and cell death in Arabidopsis. Plant Journal, 2011, 67, 1081-1093.	5.7	76
41	PARAQUAT RESISTANT1, a Golgi-Localized Putative Transporter Protein, Is Involved in Intracellular Transport of Paraquat Â Â. Plant Physiology, 2013, 162, 470-483.	4.8	76
42	<i>Arabidopsis </i><scp>HSP</scp>90 protein modulates <scp>RPP</scp>4â€mediated temperatureâ€dependent cell death and defense responses. New Phytologist, 2014, 202, 1320-1334.	7.3	69
43	E3 ligase SAUL1 serves as a positive regulator of PAMPâ€triggered immunity and its homeostasis is monitored by immune receptor SOC3. New Phytologist, 2017, 215, 1516-1532.	7.3	69
44	The direct targets of CBFs: In cold stress response and beyond. Journal of Integrative Plant Biology, 2021, 63, 1874-1887.	8.5	68
45	MYB30 Is a Key Negative Regulator of Arabidopsis Photomorphogenic Development That Promotes PIF4 and PIF5 Protein Accumulation in the Light. Plant Cell, 2020, 32, 2196-2215.	6.6	67
46	Natural variation in a type-A response regulator confers maize chilling tolerance. Nature Communications, 2021, 12, 4713.	12.8	63
47	A missense mutation in <scp>CHS</scp>1, a <scp>TIR</scp>â€<scp>NB</scp> protein, induces chilling sensitivity in <scp>A</scp>rabidopsis. Plant Journal, 2013, 75, 553-565.	5.7	59
48	Temperature-dependent autoimmunity mediated by chs1 requires its neighboring TNL gene SOC3. New Phytologist, 2017, 213, 1330-1345.	7.3	55
49	Arabidopsis Uâ€box E3 ubiquitin ligase PUB11 negatively regulates drought tolerance by degrading the receptorâ€like protein kinases LRR1 and KIN7. Journal of Integrative Plant Biology, 2021, 63, 494-509.	8.5	52
50	The cold response regulator CBF1 promotes <i>Arabidopsis</i> hypocotyl growth at ambient temperatures. EMBO Journal, 2020, 39, e103630.	7.8	49
51	The CRY2â€"COP1â€"HY5â€"BBX7/8 module regulates blue light-dependent cold acclimation in Arabidopsis. Plant Cell, 2021, 33, 3555-3573.	6.6	49
52	A novel chloroplast-localized protein EMB1303 is required for chloroplast development in Arabidopsis. Cell Research, 2009, 19, 1205-1216.	12.0	48
53	INDUCER OF CBF EXPRESSION 1 is a male fertility regulator impacting anther dehydration in Arabidopsis. PLoS Genetics, 2018, 14, e1007695.	3.5	46
54	The transcription factor <i>bZIP68</i> negatively regulates cold tolerance in maize. Plant Cell, 2022, 34, 2833-2851.	6.6	42

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55	Phosphorylation of the plasma membrane H+-ATPase AHA2 by BAK1 is required for ABA-induced stomatal closure in Arabidopsis. Plant Cell, 2022, 34, 2708-2729.	6.6	40
56	<i>Verticillium dahliae</i>effector VDAL protects MYB6 from degradation by interacting with PUB25 and PUB26 E3 ligases to enhance Verticillium wilt resistance. Plant Cell, 2021, 33, 3675-3699.	6.6	39
57	The glutamate carboxypeptidase AMP 1 mediates abscisic acid and abiotic stress responses in A rabidopsis. New Phytologist, 2013, 199, 135-150.	7.3	35
58	CPK28-NLP7 module integrates cold-induced Ca ²⁺ signal and transcriptional reprogramming in <i>Arabidopsis</i>. Science Advances, 2022, 8, .	10.3	35
59	ABA Regulation of the Cold Stress Response in Plants. , 2014, , 337-363.		34
60	Natural variation in cytokinin maintenance improves salt tolerance in apple rootstocks. Plant, Cell and Environment, 2019, 42, 424-436.	5.7	32
61	Stepwise selection of natural variations at <i>CTB2</i> and <i>CTB4a</i> improves cold adaptation during domestication of <i>japonica</i> rice. New Phytologist, 2021, 231, 1056-1072.	7.3	30
62	The Arabidopsis Nodulin Homeobox Factor AtNDX Interacts with AtRING1A/B and Negatively Regulates Abscisic Acid Signaling. Plant Cell, 2020, 32, 703-721.	6.6	29
63	Integration of light and temperature signaling pathways in plants. Journal of Integrative Plant Biology, 2022, 64, 393-411.	8.5	25
64	Groupâ€C/S1 bZIP heterodimers regulate <i>MdIPT5b</i> to negatively modulate drought tolerance in apple species. Plant Journal, 2021, 107, 399-417.	5.7	24
65	RAF22, ABI1 and OST1 form a dynamic interactive network that optimizes plant growth and responses to drought stress in Arabidopsis. Molecular Plant, 2022, 15, 1192-1210.	8.3	22
66	Reciprocal regulation between the negative regulator PP2CG1 phosphatase and the positive regulator OST1 kinase confers cold response in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2021, 63, 1568-1587.	8.5	19
67	BAK1 plays contrasting roles in regulating abscisic acidâ€induced stomatal closure and abscisic acidâ€inhibited primary root growth in <i>Arabidopsis</i>. Journal of Integrative Plant Biology, 2022, 64, 1264-1280.	8.5	18
68	IBR5 Modulates Temperature-Dependent, R Protein CHS3-Mediated Defense Responses in Arabidopsis. PLoS Genetics, 2015, 11, e1005584.	3.5	17
69	COLD1: a cold sensor in rice. Science China Life Sciences, 2015, 58, 409-410.	4.9	15
70	Redox-Mediated Endocytosis of a Receptor-Like Kinase during Distal Stem Cell Differentiation Depends on Its Tumor Necrosis Factor Receptor Domain. Plant Physiology, 2019, 181, 1075-1095.	4.8	11
71	Drought meets SWEET. Nature Plants, 2022, 8, 25-26.	9.3	6
72	Cold responses in rice: From physiology to molecular biology. Journal of Plant Physiology, 2022, 269, 153602.	3.5	5