Woo Taek Kim

List of Publications by Year in descending order

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80 papers	4,168 citations	147726 31 h-index	118793 62 g-index
82 all docs	82 docs citations	82 times ranked	4476 citing authors

#	Article	IF	Citations
1	OsATL38 mediates mono-ubiquitination of the 14-3-3 protein OsGF14d and negatively regulates the cold stress response in rice. Journal of Experimental Botany, 2022, 73, 307-323.	2.4	11
2	A Simple Protocol for Thallus Culture-Based Genetic Transformation of the Liverwort Marchantia polymorpha. Journal of Plant Biology, 2022, 65, 11-19.	0.9	2
3	Crystal Structures of the Plant Phospholipase A1 Proteins Reveal a Unique Dimerization Domain. Molecules, 2022, 27, 2317.	1.7	0
4	E3 ligase AtAIRP5/GARU regulates drought stress response by stimulating SERINE CARBOXYPEPTIDASE-LIKE1 turnover. Plant Physiology, 2022, 190, 898-919.	2.3	1
5	Suppression of DRR1 results in the accumulation of insoluble ubiquitinated proteins, which impairs drought stress tolerance. Journal of Integrative Plant Biology, 2021, 63, 431-437.	4.1	6
6	Comparison of CD20 Binding Affinities of Rituximab Produced in Nicotiana benthamiana Leaves and Arabidopsis thaliana Callus. Molecular Biotechnology, 2021, 63, 1016-1029.	1.3	3
7	OsPUB41, a U-box E3 ubiquitin ligase, acts as a negative regulator of drought stress response in rice (Oryza Sativa L.). Plant Molecular Biology, 2021, 106, 463-477.	2.0	17
8	Abiotic Stress-Induced Actin-Depolymerizing Factor 3 From Deschampsia antarctica Enhanced Cold Tolerance When Constitutively Expressed in Rice. Frontiers in Plant Science, 2021, 12, 734500.	1.7	9
9	PUB22 and PUB23 Uâ€box E3 ubiquitin ligases negatively regulate 26S proteasome activity under proteotoxic stress conditions. Journal of Integrative Plant Biology, 2021, , .	4.1	5
10	Poaceae Type II Galactinol Synthase 2 from Antarctic Flowering Plant Deschampsia antarctica and Rice Improves Cold and Drought Tolerance by Accumulation of Raffinose Family Oligosaccharides in Transgenic Rice Plants. Plant and Cell Physiology, 2020, 61, 88-104.	1.5	24
11	AtKPNB1, an Arabidopsis importin-Î² protein, is downstream of the RING E3 ubiquitin ligase AtAIRP1 in the ABA-mediated drought stress response. Planta, 2020, 252, 93.	1.6	8
12	Arabidopsis RING E3 ubiquitin ligase JUL1 participates in ABAâ€mediated microtubule depolymerization, stomatal closure, and tolerance response to drought stress. Plant Journal, 2020, 103, 824-842.	2.8	36
13	Light sheet fluorescence microscopy using axi-symmetric binary phase filters. Biomedical Optics Express, 2020, 11, 3936.	1.5	9
14	ROS1-Dependent DNA Demethylation Is Required for ABA-Inducible NIC3 Expression. Plant Physiology, 2019, 179, 1810-1821.	2.3	46
15	Classification of barley U-box E3 ligases and their expression patterns in response to drought and pathogen stresses. BMC Genomics, 2019, 20, 326.	1.2	37
16	Inverse Correlation Between MPSR1 E3 Ubiquitin Ligase and HSP90.1 Balances Cytoplasmic Protein Quality Control. Plant Physiology, 2019, 180, 1230-1240.	2.3	8
17	Low binding affinity and reduced complement-dependent cell death efficacy of ofatumumab produced using a plant system (Nicotiana benthamiana L.). Protein Expression and Purification, 2019, 159, 34-41.	0.6	5
18	Os<scp>BZR</scp>1 turnover mediated by Os<scp>SK</scp>22â€regulated Uâ€box E3 ligase Os<scp>PUB</scp>24 in rice <scp>BR</scp> response. Plant Journal, 2019, 99, 426-438.	2.8	32

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19	The proper localization of RESPONSIVE TO DESICCATION 20 in lipid droplets depends on their biogenesis induced by STRESS-RELATED PROTEINS in vegetative tissues. Biochemical and Biophysical Research Communications, 2018, 495, 1885-1889.	1.0	6
20	OsDIRP1, a Putative RING E3 Ligase, Plays an Opposite Role in Drought and Cold Stress Responses as a Negative and Positive Factor, Respectively, in Rice (Oryza sativa L.). Frontiers in Plant Science, 2018, 9, 1797.	1.7	22
21	Arabidopsis group XIV ubiquitin-conjugating enzymes AtUBC32, AtUBC33, and AtUBC34 play negative roles in drought stress response. Journal of Plant Physiology, 2018, 230, 73-79.	1.6	34
22	Identification of Rice Genes Associated With Enhanced Cold Tolerance by Comparative Transcriptome Analysis With Two Transgenic Rice Plants Overexpressing DaCBF4 or DaCBF7, Isolated From Antarctic Flowering Plant Deschampsia antarctica. Frontiers in Plant Science, 2018, 9, 601.	1.7	36
23	Telomere Structure, Function, and Maintenance in Plants. Journal of Plant Biology, 2018, 61, 131-136.	0.9	7
24	The B cell death function of obinutuzumab-HDEL produced in plant (Nicotiana benthamiana L.) is equivalent to obinutuzumab produced in CHO cells. PLoS ONE, 2018, 13, e0191075.	1.1	8
25	Telomere association of Oryza sativa telomere repeat-binding factor like 1 and its roles in telomere maintenance and development in rice, Oryza sativa L.. BMB Reports, 2018, 51, 578-583.	1.1	2
26	AtAIRP2 E3 Ligase Affects ABA and High-Salinity Responses by Stimulating Its ATP1/SDIRIP1 Substrate Turnover. Plant Physiology, 2017, 174, 2515-2531.	2.3	46
27	<scp>HIGLE</scp> is a bifunctional homing endonuclease that directly interacts with <scp>HYL</scp>1 and <scp>SERRATE</scp> in Arabidopsis thaliana. FEBS Letters, 2017, 591, 1383-1393.	1.3	5
28	MPSR1 is a cytoplasmic PQC E3 ligase for eliminating emergent misfolded proteins in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E10009-E10017.	3.3	21
29	Homologous U-box E3 Ubiquitin Ligases OsPUB2 and OsPUB3 Are Involved in the Positive Regulation of Low Temperature Stress Response in Rice (Oryza sativa L.). Frontiers in Plant Science, 2017, 8, 16.	1.7	65
30	RING E3 ligases: key regulatory elements are involved in abiotic stress responses in plants. BMB Reports, 2017, 50, 393-400.	1.1	41
31	CaPUB1, a Hot Pepper U-box E3 Ubiquitin Ligase, Confers Enhanced Cold Stress Tolerance and Decreased Drought Stress Tolerance in Transgenic Rice (Oryza sativa L.). Molecules and Cells, 2016, 39, 250-257.	1.0	46
32	Extracellular superoxide dismutase ameliorates house dust miteâ€induced atopic dermatitisâ€like skin inflammation and inhibits mast cell activation in mice. Experimental Dermatology, 2016, 25, 630-635.	1.4	9
33	The N-Terminal UND Motif of the Arabidopsis U-Box E3 Ligase PUB18 Is Critical for the Negative Regulation of ABA-Mediated Stomatal Movement and Determines Its Ubiquitination Specificity for Exocyst Subunit Exo70B1. Plant Cell, 2016, 28, 2952-2973.	3.1	83
34	Constitutive expression of CaPLA1 conferred enhanced growth and grain yield in transgenic rice plants. Plant Molecular Biology, 2016, 90, 517-532.	2.0	13
35	Arabidopsis TÃ³xicos en Levadura 78 (AtATL78) mediates ABA-dependent ROS signaling in response to drought stress. Biochemical and Biophysical Research Communications, 2016, 469, 8-14.	1.0	30
36	Expression, subcellular localization, and enzyme activity of a recombinant human extra-cellular superoxide dismutase in tobacco (Nicotiana benthamiana L.). Protein Expression and Purification, 2016, 119, 69-74.	0.6	7

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37	ABA-HYPERSENSITIVE BTB/POZ PROTEIN 1 functions as a negative regulator in ABA-mediated inhibition of germination in Arabidopsis. Plant Molecular Biology, 2016, 90, 303-315.	2.0	29
38	Arabidopsis Small Rubber Particle Protein Homolog SRPs Play Dual Roles as Positive Factors for Tissue Growth and Development and in Drought Stress Responses Â. Plant Physiology, 2016, 170, 2494-2510.	2.3	73
39	Cloning, Purification, and Characterization of Recombinant Human Extracellular Superoxidedismutase in SF9 Insect Cells. Molecules and Cells, 2016, 39, 242-249.	1.0	4
40	Suppression of OsKu80 results in defects in developmental growth and increased telomere length in rice (Oryza sativa L.). Biochemical and Biophysical Research Communications, 2015, 468, 857-862.	1.0	3
41	Arabidopsis RING E3 ubiquitin ligase AtATL80 is negatively involved inÂphosphate mobilization and cold stress response in sufficient phosphate growth conditions. Biochemical and Biophysical Research Communications, 2015, 463, 793-799.	1.0	41
42	Constitutive expression of DaCBF7, an Antarctic vascular plant Deschampsia antarctica CBF homolog, resulted in improved cold tolerance in transgenic rice plants. Plant Science, 2015, 236, 61-74.	1.7	87
43	PUB22 and PUB23 U-BOX E3 ligases directly ubiquitinate RPN6, a 26S proteasome lid subunit, for subsequent degradation in Arabidopsis thaliana. Biochemical and Biophysical Research Communications, 2015, 464, 994-999.	1.0	30
44	Suppression of Arabidopsis AtPUB30 resulted in increased tolerance to salt stress during germination. Plant Cell Reports, 2015, 34, 277-289.	2.8	35
45	Solution structure of CEH-37 homeodomain of the nematode Caenorhabditis elegans. Biochemical and Biophysical Research Communications, 2014, 443, 370-375.	1.0	1
46	Classification and interaction modes of 40 rice E2 ubiquitin-conjugating enzymes with 17 rice ARM-U-box E3 ubiquitin ligases. Biochemical and Biophysical Research Communications, 2014, 444, 575-580.	1.0	45
47	Genome sequence of the hot pepper provides insights into the evolution of pungency in Capsicum species. Nature Genetics, 2014, 46, 270-278.	9.4	867
48	Overexpression of CaDSR6 increases tolerance to drought and salt stresses in transgenic Arabidopsis plants. Gene, 2014, 552, 146-154.	1.0	13
49	Suppression of Arabidopsis RING E3 ubiquitin ligase AtATL78 increases tolerance to cold stress and decreases tolerance to drought stress. FEBS Letters, 2013, 587, 2584-2590.	1.3	73
50	The Arabidopsis RING E3 Ubiquitin Ligase AtAIRP3/LOG2 Participates in Positive Regulation of High-Salt and Drought Stress Responses Â Â Â. Plant Physiology, 2013, 162, 1733-1749.	2.3	126
51	Roles of Four Arabidopsis U-Box E3 Ubiquitin Ligases in Negative Regulation of Abscisic Acid-Mediated Drought Stress Responses Â Â Â. Plant Physiology, 2012, 160, 556-568.	2.3	136
52	Suppression of Arabidopsis RING-DUF1117 E3 ubiquitin ligases, AtRDUF1 and AtRDUF2, reduces tolerance to ABA-mediated drought stress. Biochemical and Biophysical Research Communications, 2012, 420, 141-147.	1.0	79
53	OsPUB15, an E3 ubiquitin ligase, functions to reduce cellular oxidative stress during seedling establishment. Plant Journal, 2011, 65, 194-205.	2.8	107
54	Regulation of Abiotic Stress Signal Transduction by E3 Ubiquitin Ligases in Arabidopsis. Molecules and Cells, 2011, 31, 201-208.	1.0	162

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55	Isolation and characterization of genes expressed differently in mature fruits of â€˜redfieldâ€™ and â€˜greensleevesâ€™ apples. Horticulture Environment and Biotechnology, 2011, 52, 413-421.	0.7	4
56	The Arabidopsis RING E3 Ubiquitin Ligase AtAIRP2 Plays Combinatory Roles with AtAIRP1 in Abscisic Acid-Mediated Drought Stress Responses Â Â Â. Plant Physiology, 2011, 157, 2240-2257.	2.3	97
57	Use of plant growth-promoting rhizobacteria to control stress responses of plant roots. Plant Biotechnology Reports, 2010, 4, 179-183.	0.9	170
58	The Arabidopsis C3H2C3-Type RING E3 Ubiquitin Ligase AtAIRP1 Is a Positive Regulator of an Abscisic Acid-Dependent Response to Drought Stress. Plant Physiology, 2010, 154, 1983-1997.	2.3	159
59	In vitro and in vivo interaction of AtRma2 E3 ubiquitin ligase and auxin binding protein 1. Biochemical and Biophysical Research Communications, 2010, 393, 492-497.	1.0	20
60	Drought Stress-Induced Rma1H1, a RING Membrane-Anchor E3 Ubiquitin Ligase Homolog, Regulates Aquaporin Levels via Ubiquitination in TransgenicArabidopsisPlants Â. Plant Cell, 2009, 21, 622-641.	3.1	262
61	A Genomics Approach Using Expressed Sequence Tags and Microarrays in Ripening Apple Fruit (Malus) Tj ETQq1 1 0.784314 rgBT /Ov	0.9	6
62	ArabidopsisPUB22 and PUB23 Are Homologous U-Box E3 Ubiquitin Ligases That Play Combinatory Roles in Response to Drought Stress. Plant Cell, 2008, 20, 1899-1914.	3.1	221
63	A gaseous plant hormone ethylene: the signaling pathway. Journal of Plant Biology, 2007, 50, 109-116.	0.9	10
64	Brassinosteroid induction of AtACS4 encoding an auxin-responsive 1-aminocyclopropane-1-carboxylate synthase 4 in Arabidopsis seedlings. Physiologia Plantarum, 2006, 126, 060217072449002-???.	2.6	8
65	Ricebending lamina 2 (bla2) mutants are defective in a cytochrome P450 (CYP734A6) gene predicted to mediate brassinosteroid catabofism. Journal of Plant Biology, 2006, 49, 469-476.	0.9	13
66	Heterologous Expression and Molecular and Cellular Characterization of CaPUB1 Encoding a Hot Pepper U-Box E3 Ubiquitin Ligase Homolog. Plant Physiology, 2006, 142, 1664-1682.	2.3	106
67	Structure and expression ofOsMRE11 in rice. Journal of Plant Biology, 2005, 48, 229-236.	0.9	7
68	Isolation and characterization of drought-induced cDNA clones from hot pepper (Capsicum annuum). Journal of Plant Biology, 2002, 45, 212-218.	0.9	14
69	Expression of telomerase activity is closely correlated with the capacity for cell division in tobacco plants. Journal of Plant Biology, 2001, 44, 168-171.	0.9	4
70	Structure and ethylene-induced expression of the 1-aminocyclopro-pane-1-carboxylate oxidase gene in mung bean (Vigna radiate L.). Journal of Plant Biology, 2001, 44, 17-26.	0.9	4
71	Characterization and developmental expression of single-stranded telomeric DNA-binding proteins from mung bean (Vigna radiata). Plant Molecular Biology, 2000, 42, 547-557.	2.0	20
72	Hormonal Cross-Talk Between Auxin and Ethylene Differentially Regulates the Expression of Two Members of the 1-Aminocyclopropane-1-Carboxylate Oxidase Gene Family in Rice (Oryza sativa L.). Plant and Cell Physiology, 2000, 41, 354-362.	1.5	65

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73	Temporal and spatial regulation of the expression of 1â€aminocyclopropaneâ€1â€carboxylate oxidase by ethylene in mung bean (Vigna radiata). Physiologia Plantarum, 1999, 105, 132-140.	2.6	19
74	Ethylene regulation of an ERS1 homolog in mung bean seedlings. Physiologia Plantarum, 1999, 106, 90-97.	2.6	9
75	Auxin and brassinosteroid differentially regulate the expression of three members of the 1-aminocyclopropane-1-carboxylate synthase gene family in mung bean (Vigna radiata L.). Plant Molecular Biology, 1999, 41, 443-454.	2.0	113
76	Inhibition of auxin-induced ethylene production by salicylic acid in mung bean hypocotyls. Journal of Plant Biology, 1999, 42, 1-7.	0.9	14
77	Rice proteins that bind single-stranded G-rich telomere DNA. Plant Molecular Biology, 1998, 36, 661-672.	2.0	25
78	Biotic and Abiotic Stress-Related Expression of 1-Aminocyclopropane-l-carboxylate Oxidase Gene Family in Nicotiana glutinosa L.. Plant and Cell Physiology, 1998, 39, 565-573.	1.5	75
79	History of the Discovery of Ethylene as a Plant Growth Substance. , 1998, , 47-70.		6
80	Induction of 1-aminocyclopropane-1-carboxylate oxidase mRNA by ethylene in mung bean hypocotyls: involvement of both protein phosphorylation and dephosphorylation in ethylene signaling. Plant Journal, 1997, 11, 399-405.	2.8	59