

Woo Taek Kim

List of Publications by Year in descending order

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80
papers

4,168
citations

147726

31
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118793

62
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all docs

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docs citations

82
times ranked

4476
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequence of the hot pepper provides insights into the evolution of pungency in Capsicum species. <i>Nature Genetics</i> , 2014, 46, 270-278.	9.4	867
2	Drought Stress-Induced Rma1H1, a RING Membrane-Anchored E3 Ubiquitin Ligase Homolog, Regulates Aquaporin Levels via Ubiquitination in Transgenic <i>Arabidopsis</i> Plants. <i>Plant Cell</i> , 2009, 21, 622-641.	3.1	262
3	<i>Arabidopsis</i> PUB22 and PUB23 Are Homologous U-Box E3 Ubiquitin Ligases That Play Combinatorial Roles in Response to Drought Stress. <i>Plant Cell</i> , 2008, 20, 1899-1914.	3.1	221
4	Use of plant growth-promoting rhizobacteria to control stress responses of plant roots. <i>Plant Biotechnology Reports</i> , 2010, 4, 179-183.	0.9	170
5	Regulation of Abiotic Stress Signal Transduction by E3 Ubiquitin Ligases in <i>Arabidopsis</i> . <i>Molecules and Cells</i> , 2011, 31, 201-208.	1.0	162
6	The <i>Arabidopsis</i> C3H2C3-Type RING E3 Ubiquitin Ligase AtAIRP1 Is a Positive Regulator of an Abscisic Acid-Dependent Response to Drought Stress. <i>Plant Physiology</i> , 2010, 154, 1983-1997.	2.3	159
7	Roles of Four <i>Arabidopsis</i> U-Box E3 Ubiquitin Ligases in Negative Regulation of Abscisic Acid-Mediated Drought Stress Responses. <i>Plant Physiology</i> , 2012, 160, 556-568.	2.3	136
8	The <i>Arabidopsis</i> RING E3 Ubiquitin Ligase AtAIRP3/LOG2 Participates in Positive Regulation of High-Salt and Drought Stress Responses. <i>Plant Physiology</i> , 2013, 162, 1733-1749.	2.3	126
9	Auxin and brassinosteroid differentially regulate the expression of three members of the 1-aminocyclopropane-1-carboxylate synthase gene family in mung bean (<i>Vigna radiata</i> L.). <i>Plant Molecular Biology</i> , 1999, 41, 443-454.	2.0	113
10	<i>OsPUB15</i> , an E3 ubiquitin ligase, functions to reduce cellular oxidative stress during seedling establishment. <i>Plant Journal</i> , 2011, 65, 194-205.	2.8	107
11	Heterologous Expression and Molecular and Cellular Characterization of CaPUB1 Encoding a Hot Pepper U-Box E3 Ubiquitin Ligase Homolog. <i>Plant Physiology</i> , 2006, 142, 1664-1682.	2.3	106
12	The <i>Arabidopsis</i> RING E3 Ubiquitin Ligase AtAIRP2 Plays Combinatorial Roles with AtAIRP1 in Abscisic Acid-Mediated Drought Stress Responses. <i>Plant Physiology</i> , 2011, 157, 2240-2257.	2.3	97
13	Constitutive expression of DaCBF7, an Antarctic vascular plant <i>Deschampsia antarctica</i> CBF homolog, resulted in improved cold tolerance in transgenic rice plants. <i>Plant Science</i> , 2015, 236, 61-74.	1.7	87
14	The N-Terminal UND Motif of the <i>Arabidopsis</i> 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. <i>Plant Cell</i> , 2016, 28, 2952-2973.	3.1	83
15	Suppression of <i>Arabidopsis</i> RING-DUF1117 E3 ubiquitin ligases, AtRDUF1 and AtRDUF2, reduces tolerance to ABA-mediated drought stress. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 141-147.	1.0	79
16	Biotic and Abiotic Stress-Related Expression of 1-Aminocyclopropane-1-carboxylate Oxidase Gene Family in <i>Nicotiana glutinosa</i> L.. <i>Plant and Cell Physiology</i> , 1998, 39, 565-573.	1.5	75
17	Suppression of <i>Arabidopsis</i> RING E3 ubiquitin ligase <i>AtATL78</i> increases tolerance to cold stress and decreases tolerance to drought stress. <i>FEBS Letters</i> , 2013, 587, 2584-2590.	1.3	73
18	<i>Arabidopsis</i> Small Rubber Particle Protein Homolog SRPs Play Dual Roles as Positive Factors for Tissue Growth and Development and in Drought Stress Responses. <i>Plant Physiology</i> , 2016, 170, 2494-2510.	2.3	73

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19	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 (<i>Oryza sativa</i> L.). <i>Plant and Cell Physiology</i> , 2000, 41, 354-362.	1.5	65
20	Homologous U-box E3 Ubiquitin Ligases OsPUB2 and OsPUB3 Are Involved in the Positive Regulation of Low Temperature Stress Response in Rice (<i>Oryza sativa</i> L.). <i>Frontiers in Plant Science</i> , 2017, 8, 16.	1.7	65
21	Induction of 1-aminocyclopropane-1-carboxylate oxidase mRNA by ethylene in mung bean hypocotyls: involvement of both protein phosphorylation and dephosphorylation in ethylene signaling. <i>Plant Journal</i> , 1997, 11, 399-405.	2.8	59
22	CaPUB1, a Hot Pepper U-box E3 Ubiquitin Ligase, Confers Enhanced Cold Stress Tolerance and Decreased Drought Stress Tolerance in Transgenic Rice (<i>Oryza sativa</i> L.). <i>Molecules and Cells</i> , 2016, 39, 250-257.	1.0	46
23	AtAIRP2 E3 Ligase Affects ABA and High-Salinity Responses by Stimulating Its ATP1/SDIRIP1 Substrate Turnover. <i>Plant Physiology</i> , 2017, 174, 2515-2531.	2.3	46
24	ROS1-Dependent DNA Demethylation Is Required for ABA-Inducible <i>NIC3</i> Expression. <i>Plant Physiology</i> , 2019, 179, 1810-1821.	2.3	46
25	Classification and interaction modes of 40 rice E2 ubiquitin-conjugating enzymes with 17 rice ARM-U-box E3 ubiquitin ligases. <i>Biochemical and Biophysical Research Communications</i> , 2014, 444, 575-580.	1.0	45
26	Arabidopsis RING E3 ubiquitin ligase AtATL80 is negatively involved in phosphate mobilization and cold stress response in sufficient phosphate growth conditions. <i>Biochemical and Biophysical Research Communications</i> , 2015, 463, 793-799.	1.0	41
27	RING E3 ligases: key regulatory elements are involved in abiotic stress responses in plants. <i>BMB Reports</i> , 2017, 50, 393-400.	1.1	41
28	Classification of barley U-box E3 ligases and their expression patterns in response to drought and pathogen stresses. <i>BMC Genomics</i> , 2019, 20, 326.	1.2	37
29	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 <i>Deschampsia antarctica</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 601.	1.7	36
30	Arabidopsis RING E3 ubiquitin ligase JUL1 participates in ABA-mediated microtubule depolymerization, stomatal closure, and tolerance response to drought stress. <i>Plant Journal</i> , 2020, 103, 824-842.	2.8	36
31	Suppression of Arabidopsis AtPUB30 resulted in increased tolerance to salt stress during germination. <i>Plant Cell Reports</i> , 2015, 34, 277-289.	2.8	35
32	Arabidopsis group XIV ubiquitin-conjugating enzymes AtUBC32, AtUBC33, and AtUBC34 play negative roles in drought stress response. <i>Journal of Plant Physiology</i> , 2018, 230, 73-79.	1.6	34
33	OsBZR1 turnover mediated by OsSK22-regulated U-box E3 ligase OsPUB24 in rice BR response. <i>Plant Journal</i> , 2019, 99, 426-438.	2.8	32
34	PUB22 and PUB23 U-BOX E3 ligases directly ubiquitinate RPN6, a 26S proteasome lid subunit, for subsequent degradation in Arabidopsis thaliana. <i>Biochemical and Biophysical Research Communications</i> , 2015, 464, 994-999.	1.0	30
35	Arabidopsis <i>TAX3</i> (AtATL78) mediates ABA-dependent ROS signaling in response to drought stress. <i>Biochemical and Biophysical Research Communications</i> , 2016, 469, 8-14.	1.0	30
36	ABA-HYPERSENSITIVE BTB/POZ PROTEIN 1 functions as a negative regulator in ABA-mediated inhibition of germination in Arabidopsis. <i>Plant Molecular Biology</i> , 2016, 90, 303-315.	2.0	29

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37	Rice proteins that bind single-stranded G-rich telomere DNA. <i>Plant Molecular Biology</i> , 1998, 36, 661-672.	2.0	25
38	Poaceae Type II Galactinol Synthase 2 from Antarctic Flowering Plant <i>Deschampsia antarctica</i> and Rice Improves Cold and Drought Tolerance by Accumulation of Raffinose Family Oligosaccharides in Transgenic Rice Plants. <i>Plant and Cell Physiology</i> , 2020, 61, 88-104.	1.5	24
39	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 (<i>Oryza sativa</i> L.). <i>Frontiers in Plant Science</i> , 2018, 9, 1797.	1.7	22
40	MPSR1 is a cytoplasmic PQC E3 ligase for eliminating emergent misfolded proteins in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10009-E10017.	3.3	21
41	Characterization and developmental expression of single-stranded telomeric DNA-binding proteins from mung bean (<i>Vigna radiata</i>). <i>Plant Molecular Biology</i> , 2000, 42, 547-557.	2.0	20
42	In vitro and in vivo interaction of AtRma2 E3 ubiquitin ligase and auxin binding protein 1. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 492-497.	1.0	20
43	Temporal and spatial regulation of the expression of 1-aminocyclopropane-1-carboxylate oxidase by ethylene in mung bean (<i>Vigna radiata</i>). <i>Physiologia Plantarum</i> , 1999, 105, 132-140.	2.6	19
44	OsPUB41, a U-box E3 ubiquitin ligase, acts as a negative regulator of drought stress response in rice (<i>Oryza Sativa</i> L.). <i>Plant Molecular Biology</i> , 2021, 106, 463-477.	2.0	17
45	Inhibition of auxin-induced ethylene production by salicylic acid in mung bean hypocotyls. <i>Journal of Plant Biology</i> , 1999, 42, 1-7.	0.9	14
46	Isolation and characterization of drought-induced cDNA clones from hot pepper (<i>Capsicum annum</i>). <i>Journal of Plant Biology</i> , 2002, 45, 212-218.	0.9	14
47	Ricebending lamina 2 (<i>bla2</i>) mutants are defective in a cytochrome P450 (CYP734A6) gene predicted to mediate brassinosteroid catabolism. <i>Journal of Plant Biology</i> , 2006, 49, 469-476.	0.9	13
48	Overexpression of CaDSR6 increases tolerance to drought and salt stresses in transgenic <i>Arabidopsis</i> plants. <i>Gene</i> , 2014, 552, 146-154.	1.0	13
49	Constitutive expression of CaPLA1 conferred enhanced growth and grain yield in transgenic rice plants. <i>Plant Molecular Biology</i> , 2016, 90, 517-532.	2.0	13
50	OsATL38 mediates mono-ubiquitination of the 14-3-3 protein OsGF14d and negatively regulates the cold stress response in rice. <i>Journal of Experimental Botany</i> , 2022, 73, 307-323.	2.4	11
51	A gaseous plant hormone ethylene: the signaling pathway. <i>Journal of Plant Biology</i> , 2007, 50, 109-116.	0.9	10
52	Ethylene regulation of an ERS1 homolog in mung bean seedlings. <i>Physiologia Plantarum</i> , 1999, 106, 90-97.	2.6	9
53	Extracellular superoxide dismutase ameliorates house dust mite-induced atopic dermatitis-like skin inflammation and inhibits mast cell activation in mice. <i>Experimental Dermatology</i> , 2016, 25, 630-635.	1.4	9
54	Abiotic Stress-Induced Actin-Depolymerizing Factor 3 From <i>Deschampsia antarctica</i> Enhanced Cold Tolerance When Constitutively Expressed in Rice. <i>Frontiers in Plant Science</i> , 2021, 12, 734500.	1.7	9

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55	Light sheet fluorescence microscopy using axi-symmetric binary phase filters. <i>Biomedical Optics Express</i> , 2020, 11, 3936.	1.5	9
56	Brassinosteroid induction of AtACS4 encoding an auxin-responsive 1-aminocyclopropane-1-carboxylate synthase 4 in <i>Arabidopsis</i> seedlings. <i>Physiologia Plantarum</i> , 2006, 126, 060217072449002-???	2.6	8
57	The B cell death function of obinutuzumab-HDEL produced in plant (<i>Nicotiana benthamiana</i> L.) is equivalent to obinutuzumab produced in CHO cells. <i>PLoS ONE</i> , 2018, 13, e0191075.	1.1	8
58	Inverse Correlation Between MPSR1 E3 Ubiquitin Ligase and HSP90.1 Balances Cytoplasmic Protein Quality Control. <i>Plant Physiology</i> , 2019, 180, 1230-1240.	2.3	8
59	AtKPNB1, an <i>Arabidopsis</i> importin- β^2 protein, is downstream of the RING E3 ubiquitin ligase AtAIRP1 in the ABA-mediated drought stress response. <i>Planta</i> , 2020, 252, 93.	1.6	8
60	Structure and expression of OsMRE11 in rice. <i>Journal of Plant Biology</i> , 2005, 48, 229-236.	0.9	7
61	Expression, subcellular localization, and enzyme activity of a recombinant human extra-cellular superoxide dismutase in tobacco (<i>Nicotiana benthamiana</i> L.). <i>Protein Expression and Purification</i> , 2016, 119, 69-74.	0.6	7
62	Telomere Structure, Function, and Maintenance in Plants. <i>Journal of Plant Biology</i> , 2018, 61, 131-136.	0.9	7
63	A Genomics Approach Using Expressed Sequence Tags and Microarrays in Ripening Apple Fruit (<i>Malus</i>) Tj ETQq1 1 0.784314 ggBT /Ov	0.9	7
64	The proper localization of RESPONSIVE TO DESICCATION 20 in lipid droplets depends on their biogenesis induced by STRESS-RELATED PROTEINS in vegetative tissues. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 1885-1889.	1.0	6
65	Suppression of DRR1 results in the accumulation of insoluble ubiquitinated proteins, which impairs drought stress tolerance. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 431-437.	4.1	6
66	History of the Discovery of Ethylene as a Plant Growth Substance. , 1998, , 47-70.		6
67	<sc>HIGLE</sc> is a bifunctional homing endonuclease that directly interacts with <sc>HYL</sc>1 and <sc>SERRATE</sc> in <i>Arabidopsis thaliana</i>. <i>FEBS Letters</i> , 2017, 591, 1383-1393.	1.3	5
68	Low binding affinity and reduced complement-dependent cell death efficacy of ofatumumab produced using a plant system (<i>Nicotiana benthamiana</i> L.). <i>Protein Expression and Purification</i> , 2019, 159, 34-41.	0.6	5
69	PUB22 and PUB23 Uâ€box E3 ubiquitin ligases negatively regulate 26S proteasome activity under proteotoxic stress conditions. <i>Journal of Integrative Plant Biology</i> , 2021, , .	4.1	5
70	Expression of telomerase activity is closely correlated with the capacity for cell division in tobacco plants. <i>Journal of Plant Biology</i> , 2001, 44, 168-171.	0.9	4
71	Structure and ethylene-induced expression of the 1-aminocyclopro-pane-1-carboxylate oxidase gene in mung bean (<i>Vigna radiate</i> L.). <i>Journal of Plant Biology</i> , 2001, 44, 17-26.	0.9	4
72	Isolation and characterization of genes expressed differently in mature fruits of â€redfieldâ€™™ and â€greensleevesâ€™™ apples. <i>Horticulture Environment and Biotechnology</i> , 2011, 52, 413-421.	0.7	4

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73	Cloning, Purification, and Characterization of Recombinant Human Extracellular Superoxidedismutase in SF9 Insect Cells. <i>Molecules and Cells</i> , 2016, 39, 242-249.	1.0	4
74	Suppression of OsKu80 results in defects in developmental growth and increased telomere length in rice (<i>Oryza sativa</i> L.). <i>Biochemical and Biophysical Research Communications</i> , 2015, 468, 857-862.	1.0	3
75	Comparison of CD20 Binding Affinities of Rituximab Produced in <i>Nicotiana benthamiana</i> Leaves and <i>Arabidopsis thaliana</i> Callus. <i>Molecular Biotechnology</i> , 2021, 63, 1016-1029.	1.3	3
76	Telomere association of <i>Oryza sativa</i> telomere repeat-binding factor like 1 and its roles in telomere maintenance and development in rice, <i>Oryza sativa</i> L. <i>BMB Reports</i> , 2018, 51, 578-583.	1.1	2
77	A Simple Protocol for Thallus Culture-Based Genetic Transformation of the Liverwort <i>Marchantia polymorpha</i> . <i>Journal of Plant Biology</i> , 2022, 65, 11-19.	0.9	2
78	Solution structure of CEH-37 homeodomain of the nematode <i>Caenorhabditis elegans</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 370-375.	1.0	1
79	E3 ligase AtAIRP5/GARU regulates drought stress response by stimulating SERINE CARBOXYPEPTIDASE-LIKE1 turnover. <i>Plant Physiology</i> , 2022, 190, 898-919.	2.3	1
80	Crystal Structures of the Plant Phospholipase A1 Proteins Reveal a Unique Dimerization Domain. <i>Molecules</i> , 2022, 27, 2317.	1.7	0