

Jeong-Il Kim

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

2,647
citations

201674

27
h-index

197818

49
g-index

65
all docs

65
docs citations

65
times ranked

3133
citing authors

#	ARTICLE	IF	CITATIONS
1	PIL5, a Phytochrome-Interacting Basic Helix-Loop-Helix Protein, Is a Key Negative Regulator of Seed Germination in <i>Arabidopsis thaliana</i> [W]. <i>Plant Cell</i> , 2004, 16, 3045-3058.	6.6	409
2	Expanding Roles of PIFs in Signal Integration from Multiple Processes. <i>Molecular Plant</i> , 2017, 10, 1035-1046.	8.3	172
3	Photoactivation and inactivation of <i>Arabidopsis</i> cryptochrome 2. <i>Science</i> , 2016, 354, 343-347.	12.6	149
4	Phytochrome-Specific Type 5 Phosphatase Controls Light Signal Flux by Enhancing Phytochrome Stability and Affinity for a Signal Transducer. <i>Cell</i> , 2005, 120, 395-406.	28.9	148
5	Stem-piped light activates phytochrome B to trigger light responses in <i>Arabidopsis thaliana</i> roots. <i>Science Signaling</i> , 2016, 9, ra106.	3.6	145
6	Phytochrome Phosphorylation Modulates Light Signaling by Influencing the Protein-Protein Interaction [W]. <i>Plant Cell</i> , 2004, 16, 2629-2640.	6.6	98
7	Evidence that phytochrome functions as a protein kinase in plant light signalling. <i>Nature Communications</i> , 2016, 7, 11545.	12.8	92
8	In Vivo Assessment of Cold Tolerance through Chlorophyll-a Fluorescence in Transgenic Zoysiagrass Expressing Mutant Phytochrome A. <i>PLoS ONE</i> , 2015, 10, e0127200.	2.5	88
9	A phyB-PIF1-SPA1 kinase regulatory complex promotes photomorphogenesis in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2019, 10, 4216.	12.8	80
10	Overexpression of <i>Arabidopsis</i> Translationally Controlled Tumor Protein Gene AtTCTP Enhances Drought Tolerance with Rapid ABA-Induced Stomatal Closure. <i>Molecules and Cells</i> , 2012, 33, 617-626.	2.6	72
11	<i>Arabidopsis</i> Putative MAP Kinase Kinases Raf10 and Raf11 are Positive Regulators of Seed Dormancy and ABA Response. <i>Plant and Cell Physiology</i> , 2015, 56, 84-97.	3.1	61
12	Advanced strategies to control plant pathogenic fungi by host-induced gene silencing (HIGS) and spray-induced gene silencing (SIGS). <i>Plant Biotechnology Reports</i> , 2020, 14, 1-8.	1.5	57
13	A novel protein phosphatase indirectly regulates phytochrome-interacting factor 3 via phytochrome. <i>Biochemical Journal</i> , 2008, 415, 247-255.	3.7	53
14	A <i>CRY</i> - <i>BIC</i> negative feedback circuitry regulating blue light sensitivity of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2017, 92, 426-436.	5.7	53
15	Overexpression of a Defensin Enhances Resistance to a Fruit-Specific Anthracnose Fungus in Pepper. <i>PLoS ONE</i> , 2014, 9, e97936.	2.5	49
16	Overexpression of an <i>Arabidopsis</i> Î ² -glucosidase gene enhances drought resistance with dwarf phenotype in creeping bentgrass. <i>Plant Cell Reports</i> , 2012, 31, 1677-1686.	5.6	48
17	Functional Characterization of Phytochrome Autophosphorylation in Plant Light Signaling. <i>Plant and Cell Physiology</i> , 2010, 51, 596-609.	3.1	46
18	How Do Phytochromes Transmit the Light Quality Information to the Circadian Clock in <i>Arabidopsis</i> ?. <i>Molecular Plant</i> , 2014, 7, 1701-1704.	8.3	44

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19	Trehaloseâ€6â€phosphate signaling regulates thermo-responsive hypocotyl growth in <i>Arabidopsis thaliana</i> . <i>EMBO Reports</i> , 2019, 20, e47828.	4.5	43
20	NDPK2 as a Signal Transducer in the Phytochrome-mediated Light Signaling. <i>Journal of Biological Chemistry</i> , 2005, 280, 5740-5749.	3.4	41
21	Production of purple-colored creeping bentgrass using maize transcription factor genes Pl and Lc through <i>Agrobacterium</i> -mediated transformation. <i>Plant Cell Reports</i> , 2009, 28, 397-406.	5.6	41
22	Characterization of a small constitutive promoter from <i>Arabidopsis</i> translationally controlled tumor protein (AtTCTP) gene for plant transformation. <i>Plant Cell Reports</i> , 2015, 34, 265-275.	5.6	38
23	Phytochrome phosphorylation in plant light signaling. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 681.	2.9	35
24	Shoot phytochrome B modulates reactive oxygen species homeostasis in roots via abscisic acid signaling in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2018, 94, 790-798.	5.7	34
25	Application of CRISPR/Cas9-mediated gene editing for the development of herbicide-resistant plants. <i>Plant Biotechnology Reports</i> , 2019, 13, 447-457.	1.5	32
26	Regulation of Photomorphogenic Development by Plant Phytochromes. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6165.	4.1	32
27	Overexpression of <i>Arabidopsis</i> ABF3 gene confers enhanced tolerance to drought and heat stress in creeping bentgrass. <i>Plant Biotechnology Reports</i> , 2013, 7, 165-173.	1.5	31
28	Plant Phytochromes and their Phosphorylation. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3450.	4.1	28
29	<scp>SOG</scp>â€1â€dependent <scp>NAC</scp>103 modulates the <scp>DNA</scp> damage response as a transcriptional regulator in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2019, 98, 83-96.	5.7	28
30	<i>Arabidopsis</i> Raf-Like Kinase Raf10 Is a Regulatory Component of Core ABA Signaling. <i>Molecules and Cells</i> , 2019, 42, 646-660.	2.6	28
31	Overexpression of phytochrome A and its hyperactive mutant improves shade tolerance and turf quality in creeping bentgrass and zoysiagrass. <i>Planta</i> , 2012, 236, 1135-1150.	3.2	26
32	<i>Agrobacterium</i> -mediated genetic transformation of <i>Miscanthus sinensis</i> . <i>Plant Cell, Tissue and Organ Culture</i> , 2014, 117, 51-63.	2.3	26
33	Transgenic Turfgrasses Expressing Hyperactive Ser599Ala Phytochrome A Mutant Exhibit Abiotic Stress Tolerance. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 11-21.	5.1	25
34	Resistance to <i>Rhizoctonia solani</i> AGâ€2â€2 (IIIB) in creeping bentgrass plants transformed with pepper esterase gene <i>PepEST</i> . <i>Plant Pathology</i> , 2011, 60, 631-639.	2.4	22
35	Constitutive expression of a fungus-inducible carboxylesterase improves disease resistance in transgenic pepper plants. <i>Planta</i> , 2016, 244, 379-392.	3.2	22
36	Expression of recombinant full-length plant phytochromes assembled with phytochromobilin in <i>Pichia pastoris</i> . <i>FEBS Letters</i> , 2014, 588, 2964-2970.	2.8	18

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37	New Constitutively Active Phytochromes Exhibit Light-Independent Signaling Activity. <i>Plant Physiology</i> , 2016, 171, 2826-2840.	4.8	18
38	Development of transgenic crops based on photo-biotechnology. <i>Plant, Cell and Environment</i> , 2017, 40, 2469-2486.	5.7	18
39	New era of precision plant breeding using genome editing. <i>Plant Biotechnology Reports</i> , 2019, 13, 419-421.	1.5	18
40	Transcriptome-based biological dosimetry of gamma radiation in <i>Arabidopsis</i> using DNA damage response genes. <i>Journal of Environmental Radioactivity</i> , 2018, 181, 94-101.	1.7	14
41	<i>SlHair2</i> Regulates the Initiation and Elongation of Type I Trichomes on Tomato Leaves and Stems. <i>Plant and Cell Physiology</i> , 2021, 62, 1446-1459.	3.1	14
42	CRISPR/Cas9-mediated mutation of 5-oxoprolinase gene confers resistance to sulfonamide compounds in <i>Arabidopsis</i> . <i>Plant Biotechnology Reports</i> , 2021, 15, 753-764.	1.5	14
43	Mutation in DDM1 inhibits the homology directed repair of double strand breaks. <i>PLoS ONE</i> , 2019, 14, e0211878.	2.5	13
44	Plant Thermomorphogenic Adaptation to Global Warming. <i>Journal of Plant Biology</i> , 2020, 63, 1-9.	2.1	13
45	Functional characterization of a chloroplast-targeted RNA-binding protein CRP1 in <i>Arabidopsis thaliana</i> under abiotic stress conditions. <i>Journal of Plant Biology</i> , 2014, 57, 349-356.	2.1	11
46	Developmentally Regulated Sesquiterpene Production Confers Resistance to <i>Colletotrichum gloeosporioides</i> in Ripe Pepper Fruits. <i>PLoS ONE</i> , 2014, 9, e109453.	2.5	10
47	Overexpression of <i>Arabidopsis thaliana</i> brassinosteroid-related acyltransferase 1 gene induces brassinosteroid-deficient phenotypes in creeping bentgrass. <i>PLoS ONE</i> , 2017, 12, e0187378.	2.5	9
48	The PAS2 domain is required for dimerization of phytochrome A. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 178, 115-121.	3.9	8
49	Phenotypic Characterization of Transgenic <i>Miscanthus sinensis</i> Plants Overexpressing <i>Arabidopsis</i> Phytochrome B. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-9.	2.5	8
50	Protein Kinase Activity of Phytochrome A Positively Correlates With Photoresponses in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 706316.	3.6	8
51	Suppression of Phytochrome-Interacting Factors Enhances Photoresponses of Seedlings and Delays Flowering With Increased Plant Height in <i>Brachypodium distachyon</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 756795.	3.6	8
52	Transgenic Herbicide-Resistant Turfgrasses. , 0, , .		7
53	A Fungus-Inducible Pepper Carboxylesterase Exhibits Antifungal Activity by Decomposing the Outer Layer of Fungal Cell Walls. <i>Molecular Plant-Microbe Interactions</i> , 2018, 31, 505-515.	2.6	7
54	Photo-dependent membrane-less organelles formed from plant phyB and PIF6 proteins in mammalian cells. <i>International Journal of Biological Macromolecules</i> , 2021, 176, 325-331.	7.5	7

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55	Autophosphorylation desensitizes phytochrome signal transduction. <i>Plant Signaling and Behavior</i> , 2010, 5, 868-871.	2.4	6
56	Root-specific expression of defensin in transgenic tobacco results in enhanced resistance against <i>Phytophthora parasitica</i> var. <i>nicotianae</i> . <i>European Journal of Plant Pathology</i> , 2018, 151, 811-823.	1.7	6
57	The dephosphorylated S8A and S18A mutants of (oat) phytochrome A comprise its two species, phyA TM and phyA TM , suggesting that autophosphorylation at these sites is not involved in the phyA differentiation. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1242-1248.	2.9	5
58	Expression, Purification, and Spectral Characterization of Phytochromes. <i>Methods in Molecular Biology</i> , 2019, 2026, 95-111.	0.9	3
59	Generation and Characterization of a Specific Polyclonal Antibody against <i>Arabidopsis thaliana</i> Phytochrome-Interacting Factor 3. <i>Journal of Plant Biology</i> , 2021, 64, 181-191.	2.1	2
60	Overexpression of <i>Arabidopsis thaliana</i> blue-light inhibitor of cryptochromes 1 gene alters plant architecture in soybean. <i>Plant Biotechnology Reports</i> , 2021, 15, 459-469.	1.5	2
61	Regulation of Reactive Oxygen Species Promotes Growth and Carotenoid Production Under Autotrophic Conditions in <i>Rhodobacter sphaeroides</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 847757.	3.5	2
62	Recent advances in the development of biotech bentgrass. <i>Journal of Plant Biotechnology</i> , 2009, 36, 327-335.	0.4	1
63	Antisense expression of a staygreen gene (SGR) delays leaf senescence in creeping bentgrass. <i>Rapid Communication in Photoscience</i> , 2014, 3, 28-31.	0.1	1
64	Plant Light Signaling Mediated by Phytochrome Photoreceptors. <i>Trends in Agriculture & Life Sciences</i> , 2020, 58, 1-10.	0.1	0