Jeong-Il Kim

List of Publications by Year
in descending order

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	Regulation of Reactive Oxygen Species Promotes Growth and Carotenoid Production Under Autotrophic Conditions in Rhodobacter sphaeroides. Frontiers in Microbiology, 2022, 13, 847757.	3.5	2
2	Generation and Characterization of a Specific Polyclonal Antibody against Arabidopsis thaliana Phytochrome-Interacting Factor 3. Journal of Plant Biology, 2021, 64, 181-191.	2.1	2
3	Photo-dependent membrane-less organelles formed from plant phyB and PIF6 proteins in mammalian cells. International Journal of Biological Macromolecules, 2021, 176, 325-331.	7.5	7
4	Overexpression of Arabidopsis thaliana blue-light inhibitor of cryptochromes 1 gene alters plant architecture in soybean. Plant Biotechnology Reports, 2021, 15, 459-469.	1.5	2
5	Protein Kinase Activity of Phytochrome A Positively Correlates With Photoresponses in Arabidopsis. Frontiers in Plant Science, 2021, 12, 706316.	3.6	8
6	SlHair2 Regulates the Initiation and Elongation of Type I Trichomes on Tomato Leaves and Stems. Plant and Cell Physiology, 2021, 62, 1446-1459.	3.1	14
7	Suppression of Phytochrome-Interacting Factors Enhances Photoresponses of Seedlings and Delays Flowering With Increased Plant Height in Brachypodium distachyon. Frontiers in Plant Science, 2021, 12, 756795.	3.6	8
8	CRISPR/Cas9-mediated mutation of 5-oxoprolinase gene confers resistance to sulfonamide compounds in Arabidopsis. Plant Biotechnology Reports, 2021, 15, 753-764.	1.5	14
9	Advanced strategies to control plant pathogenic fungi by host-induced gene silencing (HIGS) and spray-induced gene silencing (SIGS). Plant Biotechnology Reports, 2020, 14, 1-8.	1.5	57
10	Plant Thermomorphogenic Adaptation to Global Warming. Journal of Plant Biology, 2020, 63, 1-9.	2.1	13
11	Plant Light Signaling Mediated by Phytochrome Photoreceptors. Trends in Agriculture & Life Sciences, 2020, 58, 1-10.	0.1	0
12	Expression, Purification, and Spectral Characterization of Phytochromes. Methods in Molecular Biology, 2019, 2026, 95-111.	0.9	3
13	Plant Phytochromes and their Phosphorylation. International Journal of Molecular Sciences, 2019, 20, 3450.	4.1	28
14	Application of CRISPR/Cas9-mediated gene editing for the development of herbicide-resistant plants. Plant Biotechnology Reports, 2019, 13, 447-457.	1.5	32
15	New era of precision plant breeding using genome editing. Plant Biotechnology Reports, 2019, 13, 419-421.	1.5	18
16	A phyB-PIF1-SPA1 kinase regulatory complex promotes photomorphogenesis in Arabidopsis. Nature Communications, 2019, 10, 4216.	12.8	80
17	Mutation in DDM1 inhibits the homology directed repair of double strand breaks. PLoS ONE, 2019, 14, e0211878.	2.5	13
18	The dephosphorylated S8A and S18A mutants of (oat) phytochrome A comprise its two species, phyAâ€™ and phyAâ€™â€™, suggesting that autophosphorylation at these sites is not involved in the phyA differentiation. Photochemical and Photobiological Sciences, 2019, 18, 1242-1248.	2.9	5

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19	Regulation of Photomorphogenic Development by Plant Phytochromes. International Journal of Molecular Sciences, 2019, 20, 6165.	4.1	32
20	<scp>SOG</scp>1â€dependent <scp>NAC</scp>103 modulates the <scp>DNA</scp> damage response as a transcriptional regulator in Arabidopsis. Plant Journal, 2019, 98, 83-96.	5.7	28
21	Arabidopsis Raf-Like Kinase Raf10 Is a Regulatory Component of Core ABA Signaling. Molecules and Cells, 2019, 42, 646-660.	2.6	28
22	Trehaloseâ€6â€phosphate signaling regulates thermoresponsive hypocotyl growth in ArabidopsisÂthaliana. EMBO Reports, 2019, 20, e47828.	4.5	43
23	Root-specific expression of defensin in transgenic tobacco results in enhanced resistance against Phytophthora parasitica var. nicotianae. European Journal of Plant Pathology, 2018, 151, 811-823.	1.7	6
24	Shoot phytochrome B modulates reactive oxygen species homeostasis in roots via abscisic acid signaling in Arabidopsis. Plant Journal, 2018, 94, 790-798.	5.7	34
25	A Fungus-Inducible Pepper Carboxylesterase Exhibits Antifungal Activity by Decomposing the Outer Layer of Fungal Cell Walls. Molecular Plant-Microbe Interactions, 2018, 31, 505-515.	2.6	7
26	Transcriptome-based biological dosimetry of gamma radiation in Arabidopsis using DNA damage response genes. Journal of Environmental Radioactivity, 2018, 181, 94-101.	1.7	14
27	Development of transgenic crops based on photoâ€biotechnology. Plant, Cell and Environment, 2017, 40, 2469-2486.	5.7	18
28	A <scp>CRY</scp>â€“<scp>BIC</scp> negativeâ€feedback circuitry regulating blue light sensitivity of Arabidopsis. Plant Journal, 2017, 92, 426-436.	5.7	53
29	Expanding Roles of PIFs in Signal Integration from Multiple Processes. Molecular Plant, 2017, 10, 1035-1046.	8.3	172
30	Overexpression of Arabidopsis thaliana brassinosteroid-related acyltransferase 1 gene induces brassinosteroid-deficient phenotypes in creeping bentgrass. PLoS ONE, 2017, 12, e0187378.	2.5	9
31	Evidence that phytochrome functions as a protein kinase in plant light signalling. Nature Communications, 2016, 7, 11545.	12.8	92
32	Constitutive expression of a fungus-inducible carboxylesterase improves disease resistance in transgenic pepper plants. Planta, 2016, 244, 379-392.	3.2	22
33	Stem-piped light activates phytochrome B to trigger light responses in Arabidopsis thaliana roots. Science Signaling, 2016, 9, ra106.	3.6	145
34	Photoactivation and inactivation of Arabidopsis cryptochrome 2. Science, 2016, 354, 343-347.	12.6	149
35	New Constitutively Active Phytochromes Exhibit Light-Independent Signaling Activity. Plant Physiology, 2016, 171, 2826-2840.	4.8	18
36	Transgenic Turfgrasses Expressing Hyperactive Ser599Ala Phytochrome A Mutant Exhibit Abiotic Stress Tolerance. Journal of Plant Growth Regulation, 2016, 35, 11-21.	5.1	25

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37	In Vivo Assessment of Cold Tolerance through Chlorophyll-a Fluorescence in Transgenic Zoysiagrass Expressing Mutant Phytochrome A. PLoS ONE, 2015, 10, e0127200.	2.5	88
38	Characterization of a small constitutive promoter from Arabidopsis translationally controlled tumor protein (AtTCTP) gene for plant transformation. Plant Cell Reports, 2015, 34, 265-275.	5.6	38
39	Arabidopsis Putative MAP Kinase Kinase Kinases Raf10 and Raf11 are Positive Regulators of Seed Dormancy and ABA Response. Plant and Cell Physiology, 2015, 56, 84-97.	3.1	61
40	Overexpression of a Defensin Enhances Resistance to a Fruit-Specific Anthracnose Fungus in Pepper. PLoS ONE, 2014, 9, e97936.	2.5	49
41	Developmentally Regulated Sesquiterpene Production Confers Resistance to Colletotrichum gloeosporioides in Ripe Pepper Fruits. PLoS ONE, 2014, 9, e109453.	2.5	10
42	Functional characterization of a chloroplast-targeted RNA-binding protein CRP1 in Arabidopsis thaliana under abiotic stress conditions. Journal of Plant Biology, 2014, 57, 349-356.	2.1	11
43	Phenotypic Characterization of TransgenicMiscanthus sinensisPlants OverexpressingArabidopsisPhytochrome B. International Journal of Photoenergy, 2014, 2014, 1-9.	2.5	8
44	Agrobacterium-mediated genetic transformation of Miscanthus sinensis. Plant Cell, Tissue and Organ Culture, 2014, 117, 51-63.	2.3	26
45	How Do Phytochromes Transmit the Light Quality Information to the Circadian Clock in Arabidopsis ?. Molecular Plant, 2014, 7, 1701-1704.	8.3	44
46	Expression of recombinant fullâ€length plant phytochromes assembled with phytochromobilin in Pichia pastoris. FEBS Letters, 2014, 588, 2964-2970.	2.8	18
47	Antisense expression of a staygreen gene (SGR) delays leaf senescence in creeping bentgrass. Rapid Communication in Photoscience, 2014, 3, 28-31.	0.1	1
48	Overexpression of Arabidopsis ABF3 gene confers enhanced tolerance to drought and heat stress in creeping bentgrass. Plant Biotechnology Reports, 2013, 7, 165-173.	1.5	31
49	Overexpression of an Arabidopsis Î²-glucosidase gene enhances drought resistance with dwarf phenotype in creeping bentgrass. Plant Cell Reports, 2012, 31, 1677-1686.	5.6	48
50	Overexpression of phytochrome A and its hyperactive mutant improves shade tolerance and turf quality in creeping bentgrass and zoysiagrass. Planta, 2012, 236, 1135-1150.	3.2	26
51	Overexpression of Arabidopsis Translationally Controlled Tumor Protein Gene AtTCTP Enhances Drought Tolerance with Rapid ABA-Induced Stomatal Closure. Molecules and Cells, 2012, 33, 617-626.	2.6	72
52	Resistance to Rhizoctonia solani AGâ€2â€2 (IIIB) in creeping bentgrass plants transformed with pepper esterase gene PepEST. Plant Pathology, 2011, 60, 631-639.	2.4	22
53	Functional Characterization of Phytochrome Autophosphorylation in Plant Light Signaling. Plant and Cell Physiology, 2010, 51, 596-609.	3.1	46
54	Autophosphorylation desensitizes phytochrome signal transduction. Plant Signaling and Behavior, 2010, 5, 868-871.	2.4	6

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55	Production of purple-colored creeping bentgrass using maize transcription factor genes Pl and Lc through Agrobacterium-mediated transformation. Plant Cell Reports, 2009, 28, 397-406.	5.6	41
56	Recent advances in the development of biotech bentgrass. Journal of Plant Biotechnology, 2009, 36, 327-335.	0.4	1
57	A novel protein phosphatase indirectly regulates phytochrome-interacting factor 3 via phytochrome. Biochemical Journal, 2008, 415, 247-255.	3.7	53
58	The PAS2 domain is required for dimerization of phytochrome A. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 178, 115-121.	3.9	8
59	NDPK2 as a Signal Transducer in the Phytochrome-mediated Light Signaling. Journal of Biological Chemistry, 2005, 280, 5740-5749.	3.4	41
60	Phytochrome phosphorylation in plant light signaling. Photochemical and Photobiological Sciences, 2005, 4, 681.	2.9	35
61	Phytochrome-Specific Type 5 Phosphatase Controls Light Signal Flux by Enhancing Phytochrome Stability and Affinity for a Signal Transducer. Cell, 2005, 120, 395-406.	28.9	148
62	Phytochrome Phosphorylation Modulates Light Signaling by Influencing the Proteinâ€“Protein Interaction[W]. Plant Cell, 2004, 16, 2629-2640.	6.6	98
63	PIL5, a Phytochrome-Interacting Basic Helix-Loop-Helix Protein, Is a Key Negative Regulator of Seed Germination in Arabidopsis thaliana Â[W]. Plant Cell, 2004, 16, 3045-3058.	6.6	409
64	Transgenic Herbicide-Resistant Turfgrasses. , 0, , .		7