Sang-Gyu Kim

List of Publications by Year
in descending order

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49 papers	3,620 citations	257450 24 h-index	197818 49 g-index
55 all docs	55 docs citations	55 times ranked	4869 citing authors

#	Article	IF	Citations
1	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. Nature Biotechnology, 2015, 33, 1162-1164.	17.5	975
2	CRISPR/Cpf1-mediated DNA-free plant genome editing. Nature Communications, 2017, 8, 14406.	12.8	386
3	Nectar secretion requires sucrose phosphate synthases and the sugar transporter SWEET9. Nature, 2014, 508, 546-549.	27.8	352
4	A membrane-associated NAC transcription factor regulates salt-responsive flowering via FLOWERING LOCUS T in Arabidopsis. Planta, 2007, 226, 647-654.	3.2	214
5	A membraneâ€bound NAC transcription factor NTL8 regulates gibberellic acidâ€mediated salt signaling in Arabidopsis seed germination. Plant Journal, 2008, 55, 77-88.	5.7	189
6	Stem-piped light activates phytochrome B to trigger light responses in Arabidopsis thaliana roots. Science Signaling, 2016, 9, ra106.	3.6	145
7	<scp>WRKY</scp>71 accelerates flowering via the direct activation of <scp>FLOWERING LOCUS</scp> T and <scp>LEAFY</scp> in Arabidopsis thaliana. Plant Journal, 2016, 85, 96-106.	5.7	113
8	Genome-scale screening and molecular characterization of membrane-bound transcription factors in Arabidopsis and rice. Genomics, 2010, 95, 56-65.	2.9	112
9	Tissue Specific Diurnal Rhythms of Metabolites and Their Regulation during Herbivore Attack in a Native Tobacco, Nicotiana attenuata. PLoS ONE, 2011, 6, e26214.	2.5	105
10	Systemic Immunity Requires SnRK2.8-Mediated Nuclear Import of NPR1 in Arabidopsis. Plant Cell, 2015, 27, 3425-3438.	6.6	104
11	FCA mediates thermal adaptation of stem growth by attenuating auxin action in Arabidopsis. Nature Communications, 2014, 5, 5473.	12.8	87
12	Silencing Nicotiana attenuata <scp>LHY</scp> and <scp>ZTL</scp> alters circadian rhythms in flowers. New Phytologist, 2016, 209, 1058-1066.	7.3	71
13	A simple, flexible and highâ€throughput cloning system for plant genome editing via CRISPRâ€Cas system. Journal of Integrative Plant Biology, 2016, 58, 705-712.	8.5	61
14	Root jasmonic acid synthesis and perception regulate folivoreâ€induced shoot metabolites and increase Nicotiana attenuata resistance. New Phytologist, 2014, 202, 1335-1345.	7.3	56
15	Response of theÂmicrobiomeâ€“gutâ€“brain axis in Drosophila to amino acid deficit. Nature, 2021, 593, 570-574.	27.8	53
16	Herbivoreâ€induced volatile blends with both â€œfastâ€•and â€œslowâ€•components provide robust indirect defence in nature. Functional Ecology, 2018, 32, 136-149.	3.6	51
17	A multiplex guide RNA expression system and its efficacy for plant genome engineering. Plant Methods, 2020, 16, 37.	4.3	50
18	Activation tagging of an Arabidopsis SHI-RELATED SEQUENCE gene produces abnormal anther dehiscence and floral development. Plant Molecular Biology, 2010, 74, 337-351.	3.9	36

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19	Virus-induced plant genome editing. Current Opinion in Plant Biology, 2021, 60, 101992.	7.1	35
20	Singleâ€cell RNAâ€sequencing of Nicotiana attenuata corolla cells reveals the biosynthetic pathway of a floral scent. New Phytologist, 2022, 234, 527-544.	7.3	34
21	Functional characterization of the ribosome biogenesis factors PES, BOP1, and WDR12 (PeBoW), and mechanisms of defective cell growth and proliferation caused by PeBoW deficiency in Arabidopsis. Journal of Experimental Botany, 2016, 67, 5217-5232.	4.8	33
22	What happens in the pith stays in the pith: tissueâ€localized defense responses facilitate chemical niche differentiation between two spatially separated herbivores. Plant Journal, 2017, 92, 414-425.	5.7	32
23	Generation of early-flowering Chinese cabbage (Brassica rapa spp. pekinensis) through CRISPR/Cas9-mediated genome editing. Plant Biotechnology Reports, 2019, 13, 491-499.	1.5	32
24	Gibberellic acid-mediated salt signaling in seed germination. Plant Signaling and Behavior, 2008, 3, 877-879.	2.4	30
25	Fitness consequences of altering floral circadian oscillations for Nicotiana attenuata. Journal of Integrative Plant Biology, 2017, 59, 180-189.	8.5	29
26	Herbivory elicits changes in green leaf volatile production via jasmonate signaling and the circadian clock. Plant, Cell and Environment, 2019, 42, 972-982.	5.7	25
27	Pithâ€specific lignification in Nicotiana attenuata as a defense against a stemâ€boring herbivore. New Phytologist, 2021, 232, 332-344.	7.3	23
28	Circadian clock component, LHY, tells a plant when to respond photosynthetically to light in nature. Journal of Integrative Plant Biology, 2017, 59, 572-587.	8.5	21
29	Membrane-Mediated Salt Stress Signaling in Flowering Time Control. Plant Signaling and Behavior, 2007, 2, 517-518.	2.4	16
30	Trichobaris weevils distinguish amongst toxic host plants by sensing volatiles that do not affect larval performance. Molecular Ecology, 2016, 25, 3509-3519.	3.9	14
31	Shifting Nicotiana attenuata's diurnal rhythm does not alter its resistance to the specialist herbivore Manduca sexta. Journal of Integrative Plant Biology, 2016, 58, 656-668.	8.5	13
32	Rootâ€expressed phytochromes <scp>B</scp>1 and <scp>B</scp>2, but not <scp>P</scp>hy<scp>A</scp> and <scp>C</scp>ry2, regulate shoot growth in nature. Plant, Cell and Environment, 2018, 41, 2577-2588.	5.7	12
33	RPS5A Promoter-Driven Cas9 Produces Heritable Virus-Induced Genome Editing in Nicotiana attenuata. Molecules and Cells, 2021, 44, 911-919.	2.6	12
34	Functional specialization of Nicotiana attenuata phytochromes in leaf development and flowering time. Journal of Integrative Plant Biology, 2017, 59, 205-224.	8.5	10
35	Fitness consequences of a clock pollinator filter in Nicotiana attenuata flowers in nature. Journal of Integrative Plant Biology, 2017, 59, 805-809.	8.5	10
36	The circadian clock contributes to diurnal patterns of plant indirect defense in nature. Journal of Integrative Plant Biology, 2019, 61, 924-928.	8.5	10

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37	Effect of Soybean Volatiles on the Behavior of the Bean Bug, Riptortus pedestris. Journal of Chemical Ecology, 2022, 48, 207-218.	1.8	9
38	JA-pretreated hypocotyl explants potentiate de novo shoot regeneration in Arabidopsis. Plant Signaling and Behavior, 2019, 14, 1618180.	2.4	8
39	The way to true plant genome editing. Nature Plants, 2020, 6, 736-737.	9.3	8
40	A robust genome-editing method for wild plant species Nicotiana attenuata. Plant Biotechnology Reports, 2020, 14, 585-598.	1.5	8
41	<scp>MSD2</scp>â€mediated <scp>ROS</scp> metabolism fineâ€tunes the timing of floral organ abscission in Arabidopsis. New Phytologist, 2022, 235, 2466-2480.	7.3	8
42	Guidelines for C to T base editing in plants: base-editing window, guide RNA length, and efficient promoter. Plant Biotechnology Reports, 2019, 13, 533-541.	1.5	6
43	Submergence deactivates wound-induced plant defence against herbivores. Communications Biology, 2020, 3, 651.	4.4	5
44	Ontogeny-dependent effects of elevated CO2 and watering frequency on interaction between Aristolochia contorta and its herbivores. Science of the Total Environment, 2022, 838, 156065.	8.0	5
45	Improving the accuracy of expression data analysis in time course experiments using resampling. BMC Bioinformatics, 2014, 15, 352.	2.6	4
46	Ribozymeâ€processed guide RNA enhances virusâ€mediated plant genome editing. Biotechnology Journal, 2022, 17, e2100189.	3.5	3
47	ZEITLUPE facilitates the rhythmic movements of Nicotiana attenuata flowers. Plant Journal, 2020, 103, 308-322.	5.7	2
48	CRISPR innovations in plant breeding. Plant Cell Reports, 2021, 40, 913-914.	5.6	2
49	Tissue-specific systemic responses of the wild tobacco Nicotiana attenuata against stem-boring herbivore attack. Journal of Ecology and Environment, 2021, 45, .	1.6	1