

Sang-Tae Kim

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

4,066
citations

22
h-index

58
g-index

58
ext. papers

5,256
ext. citations

12.6
avg, IF

5.39
L-index

#	Paper	IF	Citations
46	DNA-free genome editing in plants with preassembled CRISPR-Cas9 ribonucleoproteins. <i>Nature Biotechnology</i> , 2015 , 33, 1162-4	44.5	709
45	Microbial Hub Taxa Link Host and Abiotic Factors to Plant Microbiome Variation. <i>PLoS Biology</i> , 2016 , 14, e1002352	9.7	588
44	Correction of a pathogenic gene mutation in human embryos. <i>Nature</i> , 2017 , 548, 413-419	50.4	567
43	CRISPR/Cpf1-mediated DNA-free plant genome editing. <i>Nature Communications</i> , 2017 , 8, 14406	17.4	274
42	Highly efficient RNA-guided base editing in mouse embryos. <i>Nature Biotechnology</i> , 2017 , 35, 435-437	44.5	269
41	Adenine base editing in mouse embryos and an adult mouse model of Duchenne muscular dystrophy. <i>Nature Biotechnology</i> , 2018 , 36, 536-539	44.5	238
40	Species-wide genetic incompatibility analysis identifies immune genes as hot spots of deleterious epistasis. <i>Cell</i> , 2014 , 159, 1341-51	56.2	184
39	Genome-wide target specificities of CRISPR RNA-guided programmable deaminases. <i>Nature Biotechnology</i> , 2017 , 35, 475-480	44.5	168
38	Precision genome engineering through adenine base editing in plants. <i>Nature Plants</i> , 2018 , 4, 427-431	11.5	158
37	Local-scale patterns of genetic variability, outcrossing, and spatial structure in natural stands of <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2010 , 6, e1000890	6	142
36	Allopolyploid speciation in <i>Persicaria</i> (Polygonaceae): insights from a low-copy nuclear region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 12370-5	11.5	91
35	Web-based design and analysis tools for CRISPR base editing. <i>BMC Bioinformatics</i> , 2018 , 19, 542	3.6	70
34	Single Geographic Origin of a Widespread Autotetraploid <i>Arabidopsis arenosa</i> Lineage Followed by Interploidy Admixture. <i>Molecular Biology and Evolution</i> , 2015 , 32, 1382-95	8.3	61
33	Historical biogeography of the endemic Campanulaceae of Crete. <i>Journal of Biogeography</i> , 2009 , 36, 1253-1269	4.1	52
32	Taxonomic and biogeographic implications of a phylogenetic analysis of the Campanulaceae based on three chloroplast genes. <i>Taxon</i> , 2009 , 58, 715-734	0.8	51
31	Incongruence between cpDNA and nrITS trees indicates extensive hybridization within <i>Eupersicaria</i> (Polygonaceae). <i>American Journal of Botany</i> , 2008 , 95, 1122-35	2.7	48
30	Activation of the <i>Arabidopsis thaliana</i> immune system by combinations of common ACD6 alleles. <i>PLoS Genetics</i> , 2014 , 10, e1004459	6	46

29	A simple, flexible and high-throughput cloning system for plant genome editing via CRISPR-Cas system. <i>Journal of Integrative Plant Biology</i> , 2016 , 58, 705-12	8.3	44
28	RPW8/HR repeats control NLR activation in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2019 , 15, e1008313	6	39
27	Molecular phylogeny of <i>Persicaria</i> (Persicarieae, Polygonaceae). <i>Systematic Botany</i> , 2008 , 33, 77-86	0.7	38
26	Novel allelic variants in ACD6 cause hybrid necrosis in local collection of <i>Arabidopsis thaliana</i> . <i>New Phytologist</i> , 2017 , 213, 900-915	9.8	31
25	Ma et al. reply. <i>Nature</i> , 2018 , 560, E10-E23	50.4	27
24	Response to "Unexpected mutations after CRISPR-Cas9 editing in vivo". <i>Nature Methods</i> , 2018 , 15, 239-240	24.6	22
23	What causes mating system shifts in plants? <i>Arabidopsis lyrata</i> as a case study. <i>Heredity</i> , 2017 , 118, 52-63	63.6	21
22	Digenome-seq web tool for profiling CRISPR specificity. <i>Nature Methods</i> , 2017 , 14, 548-549	21.6	18
21	Trowel: a fast and accurate error correction module for Illumina sequencing reads. <i>Bioinformatics</i> , 2014 , 30, 3264-5	7.2	18
20	Targeted Genome Editing for Crop Improvement. <i>Plant Breeding and Biotechnology</i> , 2015 , 3, 283-290	1.2	18
19	Modulation of ACD6 dependent hyperimmunity by natural alleles of an <i>Arabidopsis thaliana</i> NLR resistance gene. <i>PLoS Genetics</i> , 2018 , 14, e1007628	6	17
18	Genetics of autoimmunity in plants: an evolutionary genetics perspective. <i>New Phytologist</i> , 2021 , 229, 1215-1233	9.8	10
17	The patterns of deleterious mutations during the domestication of soybean. <i>Nature Communications</i> , 2021 , 12, 97	17.4	9
16	Questioning unexpected CRISPR off-target mutations in vivo		5
15	RPW8/HR Repeats Predict NLR-dependent Hybrid Performance		5
14	The efficacy of CRISPR-mediated cytosine base editing with the RPS5a promoter in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2021 , 11, 8087	4.9	5
13	Genome-Wide Identification and Expression Profiling of the Gene Family Reveals Their Probable Involvement in Abiotic Stress Tolerance in Tomato (<i>L.</i>). <i>Genes</i> , 2020 , 12,	4.2	3
12	A zero-background CRISPR binary vector system for construction of sgRNA libraries in plant functional genomics applications. <i>Plant Biotechnology Reports</i> , 2019 , 13, 543-551	2.5	2

11	Web-based design and analysis tools for CRISPR base editing		2
10	Genotyping-by-sequencing-based identification of Arabidopsis pattern recognition receptor RLP32 recognizing proteobacterial translation initiation factor IF1		2
9	The complete chloroplast genome of <i>Diarthron linifolium</i> (Thymelaeaceae), a species found on a limestone outcrop in eastern Asia. <i>Korean Journal of Plant Taxonomy</i> , 2021 , 51, 345-352	0.5	2
8	Guidelines for C to T base editing in plants: base-editing window, guide RNA length, and efficient promoter. <i>Plant Biotechnology Reports</i> , 2019 , 13, 533-541	2.5	1
7	On the resurrection of <i>Persicaria puritanorum</i> (Polygonaceae). <i>Phytotaxa</i> , 2017 , 308, 20	0.7	1
6	Modulation of ACD6 dependent hyperimmunity by natural alleles of an Arabidopsis thaliana NLR resistance gene		1
5	Oxidative stress response and programmed cell death guided by NAC013 modulate pithiness in radish taproots. <i>Plant Journal</i> , 2021 ,	6.9	1
4	Genotyping-by-sequencing-based identification of Arabidopsis pattern recognition receptor RLP32 recognizing proteobacterial translation initiation factor IF1.. <i>Nature Communications</i> , 2022 , 13, 1294	17.4	1
3	A Cryptic Invader of the Genus <i>Persicaria</i> (Polygonaceae) in La Palma and Gran Canaria (Spain, Canary Islands). <i>Diversity</i> , 2021 , 13, 551	2.5	0
2	Off-the-Shelf, Immune-Compatible Human Embryonic Stem Cells Generated Via CRISPR-Mediated Genome Editing. <i>Stem Cell Reviews and Reports</i> , 2021 , 17, 1053-1067	7.3	0
1	The complete chloroplast genome of <i>C. A. Mey. ex Bong.</i> (Amaranthaceae).. <i>Mitochondrial DNA Part B: Resources</i> , 2022 , 7, 541-543	0.5	