

Hee-Jong Koh

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104
papers

3,052
citations

29
h-index

53
g-index

111
ext. papers

3,855
ext. citations

4.2
avg, IF

4.66
L-index

#	Paper	IF	Citations
104	The senescence-induced staygreen protein regulates chlorophyll degradation. <i>Plant Cell</i> , 2007 , 19, 1649-1666	6.46	353
103	Rice Chlorina-1 and Chlorina-9 encode ChlD and ChlI subunits of Mg-chelatase, a key enzyme for chlorophyll synthesis and chloroplast development. <i>Plant Molecular Biology</i> , 2006 , 62, 325-37	4.6	177
102	Antioxidative activities of bran extracts from twenty one pigmented rice cultivars. <i>Food Chemistry</i> , 2006 , 94, 613-620	8.5	162
101	Rice virescent3 and stripe1 encoding the large and small subunits of ribonucleotide reductase are required for chloroplast biogenesis during early leaf development. <i>Plant Physiology</i> , 2009 , 150, 388-401	6.6	134
100	Complete chloroplast and ribosomal sequences for 30 accessions elucidate evolution of <i>Oryza</i> AA genome species. <i>Scientific Reports</i> , 2015 , 5, 15655	4.9	124
99	The rice narrow leaf2 and narrow leaf3 loci encode WUSCHEL-related homeobox 3A (OsWOX3A) and function in leaf, spikelet, tiller and lateral root development. <i>New Phytologist</i> , 2013 , 198, 1071-1084	9.8	124
98	High-resolution mapping of two rice brown planthopper resistance genes, Bph20(t) and Bph21(t), originating from <i>Oryza minuta</i> . <i>Theoretical and Applied Genetics</i> , 2009 , 119, 1237-46	6	124
97	SPL28 encodes a clathrin-associated adaptor protein complex 1, medium subunit micro 1 (AP1M1) and is responsible for spotted leaf and early senescence in rice (<i>Oryza sativa</i>). <i>New Phytologist</i> , 2010 , 185, 258-74	9.8	105
96	The rice faded green leaf locus encodes protochlorophyllide oxidoreductase ^B and is essential for chlorophyll synthesis under high light conditions. <i>Plant Journal</i> , 2013 , 74, 122-33	6.9	104
95	Inactivation of the UGPase1 gene causes genic male sterility and endosperm chalkiness in rice (<i>Oryza sativa</i> L.). <i>Plant Journal</i> , 2008 , 54, 190-204	6.9	79
94	The BEL1-type homeobox gene SH5 induces seed shattering by enhancing abscission-zone development and inhibiting lignin biosynthesis. <i>Plant Journal</i> , 2014 , 79, 717-28	6.9	78
93	Fine mapping and candidate gene analysis of dense and erect panicle 3, DEP3, which confers high grain yield in rice (<i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , 2011 , 122, 1439-49	6	77
92	Inactivation of the CTD phosphatase-like gene OsCPL1 enhances the development of the abscission layer and seed shattering in rice. <i>Plant Journal</i> , 2010 , 61, 96-106	6.9	66
91	Characterization and mapping of a shattering mutant in rice that corresponds to a block of domestication genes. <i>Genetics</i> , 2006 , 173, 995-1005	4	63
90	Map-based cloning of the ERECT PANICLE 3 gene in rice. <i>Theoretical and Applied Genetics</i> , 2009 , 119, 1497-506	6	60
89	The rice (<i>Oryza sativa</i>) blast lesion mimic mutant, blm, may confer resistance to blast pathogens by triggering multiple defense-associated signaling pathways. <i>Plant Physiology and Biochemistry</i> , 2005 , 43, 397-406	5.4	57
88	ZEBRA-NECROSIS, a thylakoid-bound protein, is critical for the photoprotection of developing chloroplasts during early leaf development. <i>Plant Journal</i> , 2010 , 62, 713-25	6.9	49

87	Proteomics analysis of rice lesion mimic mutant (spl1) reveals tightly localized probenazole-induced protein (PBZ1) in cells undergoing programmed cell death. <i>Journal of Proteome Research</i> , 2008 , 7, 1750-60	5.6	48
86	KNOX Protein OSH15 Induces Grain Shattering by Repressing Lignin Biosynthesis Genes. <i>Plant Physiology</i> , 2017 , 174, 312-325	6.6	46
85	Molecular aspect of good eating quality formation in Japonica rice. <i>PLoS ONE</i> , 2011 , 6, e18385	3.7	44
84	Antiallergic activities of pigmented rice bran extracts in cell assays. <i>Journal of Food Science</i> , 2007 , 72, S719-26	3.4	42
83	Identification of active transposon dTok, a member of the hAT family, in rice. <i>Plant and Cell Physiology</i> , 2006 , 47, 1473-83	4.9	41
82	Mutation of SPOTTED LEAF3 (SPL3) impairs abscisic acid-responsive signalling and delays leaf senescence in rice. <i>Journal of Experimental Botany</i> , 2015 , 66, 7045-59	7	40
81	PCR marker-based evaluation of the eating quality of japonica rice (<i>Oryza sativa</i> L.). <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 2754-62	5.7	38
80	The rice zebra3 (z3) mutation disrupts citrate distribution and produces transverse dark-green/green variegation in mature leaves. <i>Rice</i> , 2018 , 11, 1	5.8	36
79	Teosinte Branched 1 modulates tillering in rice plants. <i>Plant Cell Reports</i> , 2012 , 31, 57-65	5.1	36
78	Leaf variegation in the rice zebra2 mutant is caused by photoperiodic accumulation of tetra-cis-lycopene and singlet oxygen. <i>Molecules and Cells</i> , 2012 , 33, 87-97	3.5	34
77	Differential expression of defense/stress-related marker proteins in leaves of a unique rice blast lesion mimic mutant (blm). <i>Journal of Proteome Research</i> , 2006 , 5, 2586-98	5.6	34
76	Identification of QTLs for seed germination capability after various storage periods using two RIL populations in rice. <i>Molecules and Cells</i> , 2011 , 31, 385-92	3.5	30
75	Molecular mapping of quantitative trait loci for zinc toxicity tolerance in rice seedling (<i>Oryza sativa</i> L.). <i>Field Crops Research</i> , 2006 , 95, 420-425	5.5	28
74	Identification of quantitative trait loci associated with rice eating quality traits using a population of recombinant inbred lines derived from a cross between two temperate japonica cultivars. <i>Molecules and Cells</i> , 2011 , 31, 437-45	3.5	24
73	Quantitative trait loci for cold tolerance of rice recombinant inbred lines in low temperature environments. <i>Molecules and Cells</i> , 2011 , 32, 579-87	3.5	23
72	Single nucleotide polymorphisms and haplotype diversity in rice sucrose synthase 3. <i>Journal of Heredity</i> , 2011 , 102, 735-46	2.4	20
71	Identification and quantification of flavonoids in yellow grain mutant of rice (<i>Oryza sativa</i> L.). <i>Food Chemistry</i> , 2018 , 241, 154-162	8.5	19
70	Development of SNP-based CAPS and dCAPS markers in eight different genes involved in starch biosynthesis in rice. <i>Molecular Breeding</i> , 2009 , 24, 93-101	3.4	19

69	Fine mapping and candidate gene analysis of the floury endosperm gene, FLO(a), in rice. <i>Molecules and Cells</i> , 2010 , 29, 167-74	3.5	19
68	Genome-wide analyses of late pollen-preferred genes conserved in various rice cultivars and functional identification of a gene involved in the key processes of late pollen development. <i>Rice</i> , 2018 , 11, 28	5.8	18
67	Molecular characterization and physico-chemical analysis of a new giant embryo mutant allele (ge t) in rice (<i>Oryza sativa</i> L.). <i>Genes and Genomics</i> , 2009 , 31, 277-282	2.1	17
66	Fine mapping and candidate gene analysis of hwh1 and hwh2, a set of complementary genes controlling hybrid breakdown in rice. <i>Theoretical and Applied Genetics</i> , 2008 , 116, 1117-27	6	17
65	Identification of nucleosome assembly protein 1 (NAP1) as an interacting partner of plant ribosomal protein S6 (RPS6) and a positive regulator of rDNA transcription. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 465, 200-5	3.4	16
64	Sugary Endosperm is Modulated by Starch Branching Enzyme IIa in Rice (<i>Oryza sativa</i> L.). <i>Rice</i> , 2017 , 10, 33	5.8	15
63	Chromatin interacting factor OsVIL2 increases biomass and rice grain yield. <i>Plant Biotechnology Journal</i> , 2019 , 17, 178-187	11.6	15
62	Tiller formation in rice is altered by overexpression of OsIAGLU gene encoding an IAA-conjugating enzyme or exogenous treatment of free IAA 2012 , 55, 429-435		15
61	Shotgun proteomic analysis for detecting differentially expressed proteins in the reduced culm number rice. <i>Proteomics</i> , 2011 , 11, 455-68	4.8	15
60	Molecular mapping of a gene Td(t)controlling cleistogamy in rice. <i>Theoretical and Applied Genetics</i> , 2006 , 112, 1429-33	6	15
59	Key DNA Markers for Predicting Heterosis in F1 Hybrids of japonica Rice. <i>Breeding Science</i> , 2004 , 54, 389-397		15
58	Isolation and characterization of a dominant dwarf gene, d-h, in rice. <i>PLoS ONE</i> , 2014 , 9, e86210	3.7	15
57	New Genetic Loci Associated with Preharvest Sprouting and Its Evaluation Based on the Model Equation in Rice. <i>Frontiers in Plant Science</i> , 2017 , 8, 1393	6.2	14
56	Pyrophosphate-fructose 6-phosphate 1-phosphotransferase (PFP1) regulates starch biosynthesis and seed development via heterotetramer formation in rice (<i>Oryza sativa</i> L.). <i>Plant Biotechnology Journal</i> , 2020 , 18, 83-95	11.6	14
55	Identification of a Gene Involved in Early Senescence and Defense Response in Rice. <i>Frontiers in Plant Science</i> , 2018 , 9, 1274	6.2	14
54	Genotypic Variation among Okra (<i>Abelmoschus esculentus</i> (L.) Moench) Germplasms in South India. <i>Plant Breeding and Biotechnology</i> , 2016 , 4, 234-241	1.2	13
53	The Rice () Encodes a Plant Spastin That Inhibits ROS Accumulation in Leaf Development and Functions in Leaf Senescence. <i>Frontiers in Plant Science</i> , 2018 , 9, 1925	6.2	12
52	The Rice Rolled Fine Striped (RFS) CHD3/Mi-2 Chromatin Remodeling Factor Epigenetically Regulates Genes Involved in Oxidative Stress Responses During Leaf Development. <i>Frontiers in Plant Science</i> , 2018 , 9, 364	6.2	12

51	Genetic mapping and QTL analysis for yield and agronomic traits with an F2:3 population derived from a waxy corn × sweet corn cross. <i>Genes and Genomics</i> , 2014 , 36, 179-189	2.1	12
50	Development of New CAPS/dCAPS and SNAP Markers for Rice Eating Quality. <i>HAYATI Journal of Biosciences</i> , 2013 , 20, 15-23	1.2	12
49	Genotype × environment interactions for chilling tolerance of rice recombinant inbred lines under different low temperature environments. <i>Field Crops Research</i> , 2010 , 117, 226-236	5.5	12
48	QTL Analysis for Fe and Zn Concentrations in Rice Grains Using a Doubled Haploid Population Derived from a Cross Between Rice (<i>Oryza sativa</i>) Cultivar 93-11 and Milyang 352. <i>Plant Breeding and Biotechnology</i> , 2020 , 8, 69-76	1.2	12
47	Novel allelic variant of Lpa1 gene associated with a significant reduction in seed phytic acid content in rice (<i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2019 , 14, e0209636	3.7	11
46	Variation in pre-harvest sprouting resistance, seed germination and changes in abscisic acid levels during grain development in diverse rice genetic resources. <i>Plant Genetic Resources: Characterisation and Utilisation</i> , 2018 , 16, 18-27	1	11
45	Influence of Multi-Gene Allele Combinations on Grain Size of Rice and Development of a Regression Equation Model to Predict Grain Parameters. <i>Rice</i> , 2015 , 8, 33	5.8	11
44	The rice bright green leaf (bgl) locus encodes OsRopGEF10, which activates the development of small cuticular papillae on leaf surfaces. <i>Plant Molecular Biology</i> , 2011 , 77, 631-41	4.6	11
43	Fine mapping and candidate gene analysis of a new mutant gene for panicle apical abortion in rice. <i>Euphytica</i> , 2014 , 197, 387-398	2.1	10
42	Development and application of indica × japonica SNP assays using the Fluidigm platform for rice genetic analysis and molecular breeding. <i>Molecular Breeding</i> , 2020 , 40, 1	3.4	9
41	Expression of hpa1 Gene Encoding a Bacterial Harpin Protein in <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Enhances Disease Resistance to Both Fungal and Bacterial Pathogens in Rice and Arabidopsis. <i>Plant Pathology Journal</i> , 2012 , 28, 364-372	2.5	9
40	Identification and Characterization of LARGE EMBRYO, a New Gene Controlling Embryo Size in Rice (<i>Oryza sativa</i> L.). <i>Rice</i> , 2019 , 12, 22	5.8	8
39	Association between sequence variants in panicle development genes and the number of spikelets per panicle in rice. <i>BMC Genetics</i> , 2018 , 19, 5	2.6	7
38	QTL analyses of heterosis for grain yield and yield-related traits in indica-japonica crosses of rice (<i>Oryza sativa</i> L.). <i>Genes and Genomics</i> , 2012 , 34, 367-377	2.1	7
37	Identification of QTLs for hybrid fertility in inter-subspecific crosses of rice (<i>Oryza sativa</i> L.). <i>Genes and Genomics</i> , 2011 , 33, 39-48	2.1	7
36	Identification of quantitative trait loci for panicle length and yield related traits under different water and P application conditions in tropical region in rice (<i>Oryza sativa</i> L.). <i>Euphytica</i> , 2017 , 213, 1	2.1	6
35	Characterization and mapping of d13, a dwarfing mutant gene, in rice. <i>Genes and Genomics</i> , 2015 , 37, 893-903	2.1	6
34	Identification of Heterosis QTLs for Yield and Yield-Related Traits in Indica-Japonica Recombinant Inbred Lines of Rice (<i>Oryza sativa</i> L.). <i>Plant Breeding and Biotechnology</i> , 2017 , 5, 371-389	1.2	6

33	Identification of Yield and Yield-Related Quantitative Trait Loci for the Field High Temperature Condition in Backcross Populations of Rice (<i>Oryza sativa</i> L.). <i>Plant Breeding and Biotechnology</i> , 2019 , 7, 415-426	1.2	6
32	Evaluation of Whole-Genome Sequence, Genetic Diversity, and Agronomic Traits of Basmati Rice (L.). <i>Frontiers in Genetics</i> , 2020 , 11, 86	4.5	5
31	Evaluating Genotype Environment Interactions of Yield Traits and Adaptability in Rice Cultivars Grown under Temperate, Subtropical and Tropical Environments. <i>Agriculture (Switzerland)</i> , 2021 , 11, 558	3	5
30	Analysis of evolutionary relationships provides new clues to the origins of weedy rice. <i>Ecology and Evolution</i> , 2020 , 10, 891-900	2.8	4
29	DNA markers for eating quality of indica rice in Indonesia. <i>Plant Breeding</i> , 2015 , 134, 40-48	2.4	4
28	Prediction of Physicochemical Properties of Indonesian Indica Rice Using Molecular Markers. <i>HAYATI Journal of Biosciences</i> , 2014 , 21, 76-86	1.2	4
27	QTLs for hybrid fertility and their association with female and male sterility in rice. <i>Genes and Genomics</i> , 2012 , 34, 355-365	2.1	4
26	Genetic structure and isolation by altitude in rice landraces of Yunnan, China revealed by nucleotide and microsatellite marker polymorphisms. <i>PLoS ONE</i> , 2017 , 12, e0175731	3.7	4
25	Characterization of indica-japonica subspecies-specific InDel loci in wild relatives of rice (<i>Oryza sativa</i> L. subsp. indica Kato and subsp. japonica Kato). <i>Genetic Resources and Crop Evolution</i> , 2017 , 64, 405-418	2	3
24	Identification of a novel candidate gene for rolled leaf in rice. <i>Genes and Genomics</i> , 2016 , 38, 1077-1084	2.1	3
23	Gene identification using rice genome sequences. <i>Genes and Genomics</i> , 2013 , 35, 415-424	2.1	3
22	Fine Mapping and Candidate Gene Analysis of Small Round Grain Mutant in Rice. <i>Plant Breeding and Biotechnology</i> , 2017 , 5, 354-362	1.2	3
21	The DROOPING LEAF (DR) gene encoding GDSL esterase is involved in silica deposition in rice (<i>Oryza sativa</i> L.). <i>PLoS ONE</i> , 2020 , 15, e0238887	3.7	3
20	OscOP1 regulates embryo development and flavonoid biosynthesis in rice (<i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , 2021 , 134, 2587-2601	6	3
19	Genome-wide transcriptome comparison of flag leaves among japonica and indica varieties 2015 , 58, 333-343		2
18	Identification of a novel SPLIT-HULL (SPH) gene associated with hull splitting in rice (<i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , 2018 , 131, 1469-1480	6	2
17	Morphological and genetic characterization of off-type rice plants collected from farm fields in Korea 2013 , 56, 160-167		2
16	Characterization of the Common -Originated Genomic Regions in the High-Yielding Varieties Developed from Inter-Subspecific Crosses in Temperate Rice (L.). <i>Genes</i> , 2020 , 11,	4.2	2

15	Characterization of Selected Rice Varieties Adapted in Africa. <i>Plant Breeding and Biotechnology</i> , 2016 , 4, 297-305	1.2	2
14	Early Vigor of a Pyramiding Line Containing Two Quantitative Trait Loci, Phosphorus Uptake 1 (Pup1) and Anaerobic Germination 1 (AG1) in Rice (<i>O. Sativa</i> L.). <i>Agriculture (Switzerland)</i> , 2020 , 10, 453	3	2
13	Identification of a Candidate Gene for the Novel Cytoplasmic Male Sterility Derived from Inter-Subspecific Crosses in Rice (<i>L.</i>). <i>Genes</i> , 2021 , 12,	4.2	2
12	Major QTLs, and , Additively Regulate Adaxial Leaf Rolling in Rice. <i>Frontiers in Plant Science</i> , 2021 , 12, 626523	6.2	2
11	Identification of QTLs Associated with indica-japonica Differentiation-Related Traits in Rice (<i>Oryza sativa</i> L.). <i>Plant Breeding and Biotechnology</i> , 2018 , 6, 193-205	1.2	1
10	Characterization and Genetic Mapping of White-Spotted Leaf (wspl) Mutant in Rice. <i>Plant Breeding and Biotechnology</i> , 2019 , 7, 340-349	1.2	1
9	Genetic Basis of Tiller Dynamics of Rice Revealed by Genome-Wide Association Studies. <i>Plants</i> , 2020 , 9,	4.5	1
8	Transcriptional Changes in the Developing Rice Seeds Under Salt Stress Suggest Targets for Manipulating Seed Quality. <i>Frontiers in Plant Science</i> , 2021 , 12, 748273	6.2	0
7	Identification of QTLs for cold tolerance at the booting and flowering stages in rice (<i>Oryza sativa</i> L.). <i>Euphytica</i> , 2021 , 217, 1	2.1	0
6	Identification of Quantitative Trait Loci for Agronomic Traits in Two Rice Populations Derived from a Cross with a Wide Compatibility Line. <i>Plant Breeding and Biotechnology</i> , 2014 , 2, 231-246	1.2	0
5	Phenotypic Characterization and Genetic Mapping of An Open-hull Sterile Mutant in Rice. <i>Plant Breeding and Biotechnology</i> , 2013 , 1, 24-32	1.2	0
4	Evaluating Multiple Allelic Combination to Determine Tiller Angle Variation in Rice. <i>Agriculture (Switzerland)</i> , 2020 , 10, 428	3	0
3	<i>Arachis hypogaea</i> resveratrol synthase 3 alters the expression pattern of UDP-glycosyltransferase genes in developing rice seeds. <i>PLoS ONE</i> , 2021 , 16, e0245446	3.7	0
2	Identification and characterization of the stunted sterile (ss) mutant in rice. <i>Genes and Genomics</i> , 2020 , 42, 869-882	2.1	
1	Comparison of Agronomic and Seed Traits of Common Bean (<i>Phaseolus vulgaris</i> L.) Germplasm from Korea, Bulgaria, and El Salvador. <i>Hanŋuk Yukchong Hakhoe Chi</i> , 2022 , 54, 8-15	0.5	