Makoto Kusaba

List of Publications by Year
in descending order

45 papers	3,675 citations	218677 26 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	3292 citing authors

#	Article	IF	Citations
1	Rice NON-YELLOW COLORING1 Is Involved in Light-Harvesting Complex II and Grana Degradation during Leaf Senescence. Plant Cell, 2007, 19, 1362-1375.	6.6	430
2	Two shortâ€chain dehydrogenase/reductases, NONâ€YELLOW COLORING 1 and NYC1â€LIKE, are required for chlorophyllâ€ƒ<i>b</i> and lightâ€harvesting complexâ€ƒII degradation during senescence in rice. Plant Journal, 2009, 57, 120-131.	5.7	299
3	Self-Incompatibility in the Genus Arabidopsis: Characterization of the S Locus in the Outcrossing A. lyrata and Its Autogamous Relative A. thaliana. Plant Cell, 2001, 13, 627-643.	6.6	293
4	Strigolactone Regulates Leaf Senescence in Concert with Ethylene in Arabidopsis. Plant Physiology, 2015, 169, 138-147.	4.8	203
5	Low glutelin content1: A Dominant Mutation That Suppresses the Glutelin Multigene Family via RNA Silencing in Rice[W]. Plant Cell, 2003, 15, 1455-1467.	6.6	198
6	Participation of Chlorophyll b Reductase in the Initial Step of the Degradation of Light-harvesting Chlorophyll a/b-Protein Complexes in Arabidopsis. Journal of Biological Chemistry, 2009, 284, 17449-17456.	3.4	197
7	Mendel's green cotyledon gene encodes a positive regulator of the chlorophyll-degrading pathway. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14169-14174.	7.1	195
8	Defect in nonâ€yellow coloring 3, an Î±/Î² hydrolaseâ€fold family protein, causes a stayâ€green phenotype during leaf senescence in rice. Plant Journal, 2009, 59, 940-952.	5.7	192
9	Stay-green plants: what do they tell us about the molecular mechanism of leaf senescence. Photosynthesis Research, 2013, 117, 221-234.	2.9	143
10	Coevolution of the <i>S</i>-Locus Genes <i>SRK</i>, <i>SLG</i> and <i>SP11/SCR</i> in <i>Brassica oleracea</i> and <i>B. rapa</i>. Genetics, 2002, 162, 931-940.	2.9	137
11	RNA interference in crop plants. Current Opinion in Biotechnology, 2004, 15, 139-143.	6.6	131
12	Field transcriptome revealed critical developmental and physiological transitions involved in the expression of growth potential in japonicarice. BMC Plant Biology, 2011, 11, 10.	3.6	130
13	Transmissible and Nontransmissible Mutations Induced by Irradiating Arabidopsis thaliana Pollen With Î³-Rays and Carbon IonsThis article is dedicated to Toshiya Takano, who passed away in December 2003.. Genetics, 2005, 169, 881-889.	2.9	127
14	Molecular characterization of mutations induced by gamma irradiation in rice. Genes and Genetic Systems, 2009, 84, 361-370.	0.7	101
15	<i>NYC4</i>, the rice ortholog of Arabidopsis <i>THF1</i>, is involved in the degradation of chlorophyll â€“ protein complexes during leaf senescence. Plant Journal, 2013, 74, 652-662.	5.7	98
16	Characterization of the <i>S</i>-Locus Region of Almond (<i>Prunus dulcis</i>): Analysis of a Somaclonal Mutant and a Cosmid Contig for an <i>S</i> Haplotype. Genetics, 2001, 158, 379-386.	2.9	77
17	<i>PLASTOCHRON3/GOLIATH</i> encodes a glutamate carboxypeptidase required for proper development in rice. Plant Journal, 2009, 58, 1028-1040.	5.7	69
18	De novo whole-genome assembly in Chrysanthemum seticuspe, a model species of Chrysanthemums, and its application to genetic and gene discovery analysis. DNA Research, 2019, 26, 195-203.	3.4	67

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19	Characterization ofBrassica S-haplotypes lackingS-locus glycoprotein1. FEBS Letters, 2000, 482, 102-108.	2.8	58
20	Monoallelic Expression and Dominance Interactions in Anthers of Self-Incompatible <i>Arabidopsis lyrata</i> Â. Plant Physiology, 2002, 128, 17-20.	4.8	56
21	Comparative analysis ofShaplotypes with very similarSLGalleles inBrassica rapaandBrassica oleracea. Plant Journal, 1999, 17, 83-91.	5.7	51
22	Sequence and Structural Diversity of the S Locus Genes From Different Lines With the Same Self-Recognition Specificities in Brassica oleracea. Genetics, 2000, 154, 413-420.	2.9	51
23	Organelle DNA degradation contributes to the efficient use of phosphate in seed plants. Nature Plants, 2018, 4, 1044-1055.	9.3	38
24	The Non-Mendelian Green Cotyledon Gene in Soybean Encodes a Small Subunit of Photosystem II. Plant Physiology, 2017, 173, 2138-2147.	4.8	37
25	A chromosome-level genome sequence of Chrysanthemum seticuspe, a model species for hexaploid cultivated chrysanthemum. Communications Biology, 2021, 4, 1167.	4.4	32
26	Genetic Interaction Among Phytochrome, Ethylene and Abscisic Acid Signaling During Dark-Induced Senescence in Arabidopsis thaliana. Frontiers in Plant Science, 2020, 11, 564.	3.6	31
27	A Green-Cotyledon/Stay-Green Mutant Exemplifies the Ancient Whole-Genome Duplications in Soybean. Plant and Cell Physiology, 2014, 55, 1763-1771.	3.1	29
28	Regulation of Sugar and Storage Oil Metabolism by Phytochrome during De-etiolation. Plant Physiology, 2020, 182, 1114-1129.	4.8	29
29	RAD-seq-Based High-Density Linkage Map Construction and QTL Mapping of Biomass-Related Traits in Sorghum using the Japanese Landrace Takakibi NOG. Plant and Cell Physiology, 2020, 61, 1262-1272.	3.1	25
30	Impairment of Lhca4, a subunit of LHCI, causes high accumulation of chlorophyll and the stay-green phenotype in rice. Journal of Experimental Botany, 2018, 69, 1027-1035.	4.8	22
31	Monoallelic expression and dominance interactions in anthers of self-incompatible Arabidopsis lyrata. Plant Physiology, 2002, 128, 17-20.	4.8	22
32	Protection of Chloroplast Membranes by VIPP1 Rescues Aberrant Seedling Development in Arabidopsisnyc1 Mutant. Frontiers in Plant Science, 2016, 7, 533.	3.6	18
33	Characterization of Chlorophyllide a Oxygenase (CAO) in Rice. Breeding Science, 2005, 55, 361-364.	1.9	17
34	Genetic analysis of chlorophyll synthesis and degradation regulated by BALANCE of CHLOROPHYLL METABOLISM. Plant Physiology, 2022, 189, 419-432.	4.8	14
35	A pure line derived from a self-compatible Chrysanthemum seticuspe mutant as a model strain in the genus Chrysanthemum. Plant Science, 2019, 287, 110174.	3.6	13
36	A Novel Carotenoid Derivative, Lutein 3-Acetate, Accumulates in Senescent Leaves of Rice. Plant and Cell Physiology, 2009, 50, 1573-1577.	3.1	11

#	Article	IF	Citations
37	Highly pleiotropic functions of CYP78As and AMP1 are regulated in non-cell-autonomous/organ-specific manners. Plant Physiology, 2021, 186, 767-781.	4.8	10
38	Regulation of the plastochron by three many-noded dwarf genes in barley. PLoS Genetics, 2021, 17, e1009292.	3.5	7
39	Self-Incompatibility in the Genus Arabidopsis: Characterization of the S Locus in the Outcrossing A. lyrata and Its Autogamous Relative A. thaliana. Plant Cell, 2001, 13, 627.	6.6	4
40	Utilization and Molecular Characterization of Seed Protein Composition Mutants in Rice Plants. Japan Agricultural Research Quarterly, 2009, 43, 1-5.	0.4	4
41	Identification and Characterization of an Early Leaf Senescence Gene ELS1 in Soybean. Frontiers in Plant Science, 2021, 12, 784105.	3.6	4
42	The complete sequence of the chloroplast genome of <i>Chrysanthemum rupestre</i>, a diploid disciform capitula species of <i>Chrysanthemum</i>. Mitochondrial DNA Part B: Resources, 2022, 7, 603-605.	0.4	3
43	pCYOs: Binary vectors for simple visible selection of transformants using an albino-cotyledon mutant in <i>Arabidopsis thaliana</i>. Plant Biotechnology, 2019, 36, 39-42.	1.0	1
44	stay green çªç„¶å‰ç•°ä•ãƒ¡ãƒ³ãƒ‡ãƒ« ã€Œé•ä¼ã®æ³•å‰‡ã€ç™ºè¦‹ã«ç”¨ã„ã‚‰ã‚ŒãŸé•ä¼åã®åŒå®š. Kagaku To Seibutsu, 2008, 46	0.0	0
45	Functional Divergence of G and Its Homologous Genes for Green Pigmentation in Soybean Seeds. Frontiers in Plant Science, 2021, 12, 796981.	3.6	0