Can Baysal

List of Publications by Year
in descending order

49 papers	4,496 citations	147801 31 h-index	197818 49 g-index
49 all docs	49 docs citations	49 times ranked	4751 citing authors

#	Article	IF	Citations
1	<i>Bacillus thuringiensis</i>: a century of research, development and commercial applications. Plant Biotechnology Journal, 2011, 9, 283-300.	8.3	598
2	Modulation of the polyamine biosynthetic pathway in transgenic rice confers tolerance to drought stress. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9909-9914.	7.1	532
3	Transgenic multivitamin corn through biofortification of endosperm with three vitamins representing three distinct metabolic pathways. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7762-7767.	7.1	457
4	Combinatorial genetic transformation generates a library of metabolic phenotypes for the carotenoid pathway in maize. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18232-18237.	7.1	330
5	Sowing the seeds of success: pharmaceutical proteins from plants. Current Opinion in Biotechnology, 2005, 16, 167-173.	6.6	315
6	Promoter diversity in multigene transformation. Plant Molecular Biology, 2010, 73, 363-378.	3.9	155
7	The regulation of carotenoid pigmentation in flowers. Archives of Biochemistry and Biophysics, 2010, 504, 132-141.	3.0	149
8	Patterns of CRISPR/Cas9 activity in plants, animals and microbes. Plant Biotechnology Journal, 2016, 14, 2203-2216.	8.3	141
9	Characteristics of Genome Editing Mutations in Cereal Crops. Trends in Plant Science, 2017, 22, 38-52.	8.8	122
10	Biosafety and risk assessment framework for selectable marker genes in transgenic crop plants: a case of the science not supporting the politics. Transgenic Research, 2007, 16, 261-280.	2.4	120
11	Engineering Complex Metabolic Pathways in Plants. Annual Review of Plant Biology, 2014, 65, 187-223.	18.7	117
12	The genetic manipulation of medicinal and aromatic plants. Plant Cell Reports, 2007, 26, 1689-1715.	5.6	112
13	Biofortification of plants with altered antioxidant content and composition: genetic engineering strategies. Plant Biotechnology Journal, 2013, 11, 129-141.	8.3	102
14	Applications of multiplex genome editing in higher plants. Current Opinion in Biotechnology, 2019, 59, 93-102.	6.6	78
15	Combined transcript, proteome, and metabolite analysis of transgenic maize seeds engineered for enhanced carotenoid synthesis reveals pleotropic effects in core metabolism. Journal of Experimental Botany, 2015, 66, 3141-3150.	4.8	65
16	The expression of heterologous Fe (<scp>III</scp>) phytosiderophore transporter <i>Hv<scp>YS</scp>1</i> in rice increases Fe uptake, translocation and seed loading and excludes heavy metals by selective Fe transport. Plant Biotechnology Journal, 2017, 15, 423-432.	8.3	63
17	Title is missing!. Transgenic Research, 1998, 7, 289-294.	2.4	61
18	Nutritionally enhanced crops and food security: scientific achievements versus political expediency. Current Opinion in Biotechnology, 2011, 22, 245-251.	6.6	60

#	Article	IF	Citations
19	Molecular pharming in cereal crops. Phytochemistry Reviews, 2008, 7, 579-592.	6.5	56
20	The humanitarian impact of plant biotechnology: recent breakthroughs vs bottlenecks for adoption. Current Opinion in Plant Biology, 2010, 13, 219-225.	7.1	56
21	Plurality of opinion, scientific discourse and pseudoscience: an in depth analysis of the SÃ©ralini et al. study claiming that Roundupâ„¢ Ready corn or the herbicide Roundupâ„¢ cause cancer in rats. Transgenic Research, 2013, 22, 255-267.	2.4	55
22	The potential impact of plant biotechnology on the Millennium Development Goals. Plant Cell Reports, 2011, 30, 249-265.	5.6	47
23	Synergistic metabolism in hybrid corn indicates bottlenecks in the carotenoid pathway and leads to the accumulation of extraordinary levels of the nutritionally important carotenoid zeaxanthin. Plant Biotechnology Journal, 2011, 9, 384-393.	8.3	46
24	Genome editing in cereal crops: an overview. Transgenic Research, 2021, 30, 461-498.	2.4	46
25	CRISPR/Cas9 activity in the rice OsBEIIb gene does not induce off-target effects in the closely related paralog OsBEIIa. Molecular Breeding, 2016, 36, 1.	2.1	45
26	CRISPR/Cas9 mutations in the rice Waxy/GBSSI gene induce allele-specific and zygosity-dependent feedback effects on endosperm starch biosynthesis. Plant Cell Reports, 2019, 38, 417-433.	5.6	45
27	Inactivation of rice starch branching enzyme IIb triggers broad and unexpected changes in metabolism by transcriptional reprogramming. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26503-26512.	7.1	45
28	Contributions of the international plant science community to the fight against human infectious diseases â€“ part 1: epidemic and pandemic diseases. Plant Biotechnology Journal, 2021, 19, 1901-1920.	8.3	44
29	Simultaneous expression of Arabidopsis Ï•hydroxyphenylpyruvate dioxygenase and MPBQ methyltransferase in transgenic corn kernels triples the tocopherol content. Transgenic Research, 2011, 20, 177-181.	2.4	42
30	Transgenic rice grains expressing a heterologous Ï•hydroxyphenylpyruvate dioxygenase shift tocopherol synthesis from the Î³ to the Î± isoform without increasing absolute tocopherol levels. Transgenic Research, 2012, 21, 1093-1097.	2.4	38
31	Carotenoidâ€enriched transgenic corn delivers bioavailable carotenoids to poultry and protects them against coccidiosis. Plant Biotechnology Journal, 2016, 14, 160-168.	8.3	36
32	Calling the tunes on transgenic crops: the case for regulatory harmony. Molecular Breeding, 2009, 23, 99-112.	2.1	33
33	Contributions of the international plant science community to the fight against infectious diseases in humansâ€"part 2: Affordable drugs in edible plants for endemic and reâ€emerging diseases. Plant Biotechnology Journal, 2021, 19, 1921-1936.	8.3	31
34	Unexpected synergistic HIV neutralization by a triple microbicide produced in rice endosperm. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7854-E7862.	7.1	28
35	Targeted transcriptomic and metabolic profiling reveals temporal bottlenecks in the maize carotenoid pathway that may be addressed by multigene engineering. Plant Journal, 2013, 75, 441-455.	5.7	27
36	Field trials and tribulationsâ€"making sense of the regulations for experimental field trials of transgenic crops in Europe. Plant Biotechnology Journal, 2012, 10, 511-523.	8.3	24

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37	Transgenic wheat plants expressing an oat arginine decarboxylase cDNA exhibit increases in polyamine content in vegetative tissue and seeds. Molecular Breeding, 2008, 22, 39-50.	2.1	21
38	Can the world afford to ignore biotechnology solutions that address food insecurity?. Plant Molecular Biology, 2013, 83, 5-19.	3.9	19
39	Abscisic acid and the herbicide safener cyprosulfamide cooperatively enhance abiotic stress tolerance in rice. Molecular Breeding, 2013, 32, 463-484.	2.1	17
40	Fruit crops in the era of genome editing: closing the regulatory gap. Plant Cell Reports, 2021, 40, 915-930.	5.6	17
41	Recognition motifs rather than phylogenetic origin influence the ability of targeting peptides to import nuclear-encoded recombinant proteins into rice mitochondria. Transgenic Research, 2020, 29, 37-52.	2.4	16
42	Mice fed on a diet enriched with genetically engineered multivitamin corn show no subâ€acute toxic effects and no subâ€chronic toxicity. Plant Biotechnology Journal, 2012, 10, 1026-1034.	8.3	15
43	Stable transgenes bear fruit. Nature Biotechnology, 2008, 26, 653-654.	17.5	14
44	The subcellular localization of two isopentenyl diphosphate isomerases in rice suggests a role for the endoplasmic reticulum in isoprenoid biosynthesis. Plant Cell Reports, 2020, 39, 119-133.	5.6	14
45	The Impact of Environmental Stress on Bt Crop Performance. Trends in Plant Science, 2020, 25, 264-278.	8.8	14
46	CRISPR/Cas9-induced monoallelic mutations in the cytosolic AGPase large subunit gene APL2 induce the ectopic expression of APL2 and the corresponding small subunit gene APS2b in rice leaves. Transgenic Research, 2018, 27, 423-439.	2.4	10
47	The ratio of phytosiderophores nicotianamine to deoxymugenic acid controls metal homeostasis in rice. Planta, 2019, 250, 1339-1354.	3.2	9
48	Transit Peptides From Photosynthesis-Related Proteins Mediate Import of a Marker Protein Into Different Plastid Types and Within Different Species. Frontiers in Plant Science, 2020, 11, 560701.	3.6	6
49	The Coordinated Upregulated Expression of Genes Involved in MEP, Chlorophyll, Carotenoid and Tocopherol Pathways, Mirrored the Corresponding Metabolite Contents in Rice Leaves during De-Etiolation. Plants, 2021, 10, 1456.	3.5	3