

Donald R Mccarty

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1770236/publications.pdf>

Version: 2024-02-01

59
papers

6,202
citations

172457

29
h-index

138484

58
g-index

61
all docs

61
docs citations

61
times ranked

6212
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Emb15</i> encodes a plastid ribosomal assembly factor essential for embryogenesis in maize. <i>Plant Journal</i> , 2021, 106, 214-227.	5.7	6
2	The number of catalytic cycles in an enzyme's lifetime and why it matters to metabolic engineering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	41
3	Structural variation affecting DNA backbone interactions underlies adaptation of B3 DNA binding domains to constraints imposed by protein architecture. <i>Nucleic Acids Research</i> , 2021, 49, 4989-5002.	14.5	4
4	Chromosome-level genome assembly of a regenerable maize inbred line A188. <i>Genome Biology</i> , 2021, 22, 175.	8.8	32
5	The Thiamin-Requiring 3 Mutation of Arabidopsis 5-Deoxyxylulose-Phosphate Synthase 1 Highlights How the Thiamin Economy Impacts the Methylerythritol 4-Phosphate Pathway. <i>Frontiers in Plant Science</i> , 2021, 12, 721391.	3.6	3
6	The SUMO ligase MMS21 profoundly influences maize development through its impact on genome activity and stability. <i>PLoS Genetics</i> , 2021, 17, e1009830.	3.5	10
7	The Moderately (D)efficient Enzyme: Catalysis-Related Damage <i>In Vivo</i> and Its Repair. <i>Biochemistry</i> , 2021, 60, 3555-3565.	2.5	5
8	A Core Metabolome Response of Maize Leaves Subjected to Long-Duration Abiotic Stresses. <i>Metabolites</i> , 2021, 11, 797.	2.9	17
9	Construction and applications of a B vitamin genetic resource for investigation of vitamin-dependent metabolism in maize. <i>Plant Journal</i> , 2020, 101, 442-454.	5.7	9
10	<i>BonnMu</i> : A Sequence-Indexed Resource of Transposon-Induced Maize Mutations for Functional Genomics Studies. <i>Plant Physiology</i> , 2020, 184, 620-631.	4.8	25
11	The <i>thick aleurone1</i> Gene Encodes a NOT1 Subunit of the CCR4-NOT Complex and Regulates Cell Patterning in Endosperm. <i>Plant Physiology</i> , 2020, 184, 960-972.	4.8	13
12	Transposable elements employ distinct integration strategies with respect to transcriptional landscapes in eukaryotic genomes. <i>Nucleic Acids Research</i> , 2020, 48, 6685-6698.	14.5	30
13	Maize <i>defective kernel5</i> is a bacterial TamB homologue required for chloroplast envelope biogenesis. <i>Journal of Cell Biology</i> , 2019, 218, 2638-2658.	5.2	19
14	Effects of long-term exposure to elevated temperature on <i>Zea mays</i> endosperm development during grain fill. <i>Plant Journal</i> , 2019, 99, 23-40.	5.7	37
15	Rethinking the PDH Bypass and GABA Shunt as Thiamin-Deficiency Workarounds. <i>Plant Physiology</i> , 2019, 181, 389-393.	4.8	16
16	Restorer-of-Fertility Mutations Recovered in Transposon-Active Lines of S Male-Sterile Maize. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 291-302.	1.8	5
17	The UniformMu Resource: Construction, Applications, and Opportunities. <i>Compendium of Plant Genomes</i> , 2018, , 131-142.	0.5	8
18	The maize W22 genome provides a foundation for functional genomics and transposon biology. <i>Nature Genetics</i> , 2018, 50, 1282-1288.	21.4	183

#	ARTICLE	IF	CITATIONS
19	Autonomous and non-autonomous functions of the maize <i>Shohal1</i> gene, encoding a <i>RWP</i> <i>â€</i> <i>RK</i> putative transcription factor, in regulation of embryo and endosperm development. <i>Plant Journal</i> , 2018, 95, 892-908.	5.7	11
20	Structure and Origin of the <i>White Cap</i> Locus and Its Role in Evolution of Grain Color in Maize. <i>Genetics</i> , 2017, 206, 135-150.	2.9	36
21	Small kernel2 Encodes a Glutaminase in Vitamin B6 Biosynthesis Essential for Maize Seed Development. <i>Plant Physiology</i> , 2017, 174, 1127-1138.	4.8	21
22	Arabidopsis <i>TH2</i> Encodes the Orphan Enzyme Thiamin Monophosphate Phosphatase. <i>Plant Cell</i> , 2016, 28, 2683-2696.	6.6	42
23	Transposon Mutagenesis and Analysis of Mutants in UniformMu Maize (<i>Zea mays</i>). <i>Current Protocols in Plant Biology</i> , 2016, 1, 451-465.	2.8	24
24	Essential role of conserved DUF177A protein in plastid 23S rRNA accumulation and plant embryogenesis. <i>Journal of Experimental Botany</i> , 2016, 67, 5447-5460.	4.8	12
25	Does Abiotic Stress Cause Functional B Vitamin Deficiency in Plants?. <i>Plant Physiology</i> , 2016, 172, 2082-2097.	4.8	65
26	<i>Embryo defective 14</i> encodes a plastid-targeted <i>cGTP</i> ase essential for embryogenesis in maize. <i>Plant Journal</i> , 2015, 84, 785-799.	5.7	19
27	Seed filling in domesticated maize and rice depends on SWEET-mediated hexose transport. <i>Nature Genetics</i> , 2015, 47, 1489-1493.	21.4	360
28	Conserved Functions of the MATE Transporter BIG EMBRYO1 in Regulation of Lateral Organ Size and Initiation Rate. <i>Plant Cell</i> , 2015, 27, 2288-2300.	6.6	66
29	Phenotype to genotype using forward-genetic Mu-seq for identification and functional classification of maize mutants. <i>Frontiers in Plant Science</i> , 2014, 4, 545.	3.6	20
30	Divisions of labor in the thiamin biosynthetic pathway among organs of maize. <i>Frontiers in Plant Science</i> , 2014, 5, 370.	3.6	21
31	Salvage of the thiamin pyrimidine moiety by plant TenA proteins lacking an active-site cysteine. <i>Biochemical Journal</i> , 2014, 463, 145-155.	3.7	22
32	The Maize <i>DWARF1</i> Encodes a Gibberellin 3-Oxidase and Is Dual Localized to the Nucleus and Cytosol. <i>Plant Physiology</i> , 2014, 166, 2028-2039.	4.8	112
33	Regulation of the seed to seedling developmental phase transition by the <i>LAFL</i> and <i>VAL</i> transcription factor networks. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2014, 3, 135-145.	5.9	113
34	Distinct functions of COAR and B3 domains of maize VP1 in induction of ectopic gene expression and plant developmental phenotypes in Arabidopsis. <i>Plant Molecular Biology</i> , 2014, 85, 179-191.	3.9	10
35	Distinct Roles of LAFL Network Genes in Promoting the Embryonic Seedling Fate in the Absence of VAL Repression. <i>Plant Physiology</i> , 2013, 163, 1293-1305.	4.8	79
36	<i>Embryo defective12</i> encodes the plastid initiation factor 3 and is essential for embryogenesis in maize. <i>Plant Journal</i> , 2013, 74, 792-804.	5.7	53

#	ARTICLE	IF	CITATIONS
37	Genetic and Molecular Analyses of UniformMu Transposon Insertion Lines. <i>Methods in Molecular Biology</i> , 2013, 1057, 157-166.	0.9	34
38	Mu-seq: Sequence-Based Mapping and Identification of Transposon Induced Mutations. <i>PLoS ONE</i> , 2013, 8, e77172.	2.5	53
39	Identification and Characterization of the Missing Pyrimidine Reductase in the Plant Riboflavin Biosynthesis Pathway. <i>Plant Physiology</i> , 2012, 161, 48-56.	4.8	20
40	Cellulose Synthase-Like D1 Is Integral to Normal Cell Division, Expansion, and Leaf Development in Maize. <i>Plant Physiology</i> , 2012, 158, 708-724.	4.8	60
41	POPCorn: An Online Resource Providing Access to Distributed and Diverse Maize Project Data. <i>International Journal of Plant Genomics</i> , 2011, 2011, 1-10.	2.2	20
42	Genetic Resources for Maize Cell Wall Biology. <i>Plant Physiology</i> , 2009, 151, 1703-1728.	4.8	152
43	Transposon Resources for Forward and Reverse Genetics in Maize. , 2009, , 561-584.		29
44	Functional symmetry of the B3 network controlling seed development. <i>Current Opinion in Plant Biology</i> , 2008, 11, 548-553.	7.1	165
45	The Carotenoid Cleavage Dioxygenase 1 Enzyme Has Broad Substrate Specificity, Cleaving Multiple Carotenoids at Two Different Bond Positions. <i>Journal of Biological Chemistry</i> , 2008, 283, 11364-11373.	3.4	237
46	The Maize <i>Viviparous8</i> Locus, Encoding a Putative ALTERED MERISTEM PROGRAM1-Like Peptidase, Regulates Abscisic Acid Accumulation and Coordinates Embryo and Endosperm Development. <i>Plant Physiology</i> , 2008, 146, 1193-1206.	4.8	61
47	Repression of the LEAFY COTYLEDON 1/B3 Regulatory Network in Plant Embryo Development by VP1/ABSCISIC ACID INSENSITIVE 3-LIKE B3 Genes. <i>Plant Physiology</i> , 2007, 143, 902-911.	4.8	226
48	Sequence-indexed mutations in maize using the UniformMu transposon-tagging population. <i>BMC Genomics</i> , 2007, 8, 116.	2.8	124
49	Steady-state transposon mutagenesis in inbred maize. <i>Plant Journal</i> , 2005, 44, 52-61.	5.7	234
50	Molecular analysis of high-copy insertion sites in maize. <i>Nucleic Acids Research</i> , 2004, 32, e54-e54.	14.5	82
51	Molecular characterization of the Arabidopsis 9-cis epoxycarotenoid dioxygenase gene family. <i>Plant Journal</i> , 2003, 35, 44-56.	5.7	715
52	Maize VP1 complements Arabidopsis <i>abi3</i> and confers a novel ABA/auxin interaction in roots. <i>Plant Journal</i> , 2002, 28, 409-418.	5.7	145
53	Conservation and Innovation in Plant Signaling Pathways. <i>Cell</i> , 2000, 103, 201-209.	28.9	135
54	Characterization of the ABA-deficient tomato mutant <i>notabilis</i> and its relationship with maize <i>Vp14</i> . <i>Plant Journal</i> , 1999, 17, 427-431.	5.7	266

#	ARTICLE	IF	CITATIONS
55	Signaling from the embryo conditions Vp1-mediated repression of alpha-amylase genes in the aleurone of developing maize seeds. <i>Plant Journal</i> , 1999, 19, 371-377.	5.7	47
56	Specific Oxidative Cleavage of Carotenoids by VP14 of Maize. <i>Science</i> , 1997, 276, 1872-1874.	12.6	839
57	The quiescent/colorless alleles of viviparous1 show that the conserved B3 domain of VP1 is not essential for ABA-regulated gene expression in the seed. <i>Plant Journal</i> , 1997, 12, 1231-1240.	5.7	58
58	Genetic Control and Integration of Maturation and Germination Pathways in Seed Development. <i>Annual Review of Plant Biology</i> , 1995, 46, 71-93.	14.3	272
59	The Viviparous-1 developmental gene of maize encodes a novel transcriptional activator. <i>Cell</i> , 1991, 66, 895-905.	28.9	677