

Bao-Cai Tan

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

4,298
citations

236925

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48
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49
all docs

49
docs citations

49
times ranked

3696
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Oxidative Cleavage of Carotenoids by VP14 of Maize. <i>Science</i> , 1997, 276, 1872-1874.	12.6	839
2	Molecular characterization of the Arabidopsis 9-cis epoxycarotenoid dioxygenase gene family. <i>Plant Journal</i> , 2003, 35, 44-56.	5.7	715
3	Genetic control of abscisic acid biosynthesis in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 12235-12240.	7.1	574
4	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
5	Steady-state transposon mutagenesis in inbred maize. <i>Plant Journal</i> , 2005, 44, 52-61.	5.7	234
6	<i>Empty Pericarp5</i> Encodes a Pentatricopeptide Repeat Protein That Is Required for Mitochondrial RNA Editing and Seed Development in Maize. <i>Plant Cell</i> , 2013, 25, 868-883.	6.6	161
7	Structural Insights into Maize <i>Viviparous14</i> , a Key Enzyme in the Biosynthesis of the Phytohormone Abscisic Acid. <i>Plant Cell</i> , 2010, 22, 2970-2980.	6.6	152
8	<i>Small kernel1</i> encodes a pentatricopeptide repeat protein required for mitochondrial <i>nad7</i> transcript editing and seed development in maize (<i>Zea mays</i>) and rice (<i>Oryza</i>) <i>Tj ETQq0 0 0 0 BT /Overlook 10 Tt</i>		
9	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
10	<i>EMPTY PERICARP16</i> is required for mitochondrial <i>nad2</i> intron 4 <i>cis</i> splicing, complex I assembly and seed development in maize. <i>Plant Journal</i> , 2016, 85, 507-519.	5.7	97
11	<i>Empty pericarp7</i> encodes a mitochondrial "subgroup pentatricopeptide repeat protein that is required for <i>ccm</i> <i>F</i> <i>N</i> editing, mitochondrial function and seed development in maize. <i>Plant Journal</i> , 2015, 84, 283-295.	5.7	89
12	<i>Emp10</i> encodes a mitochondrial <i>PPR</i> protein that affects the <i>cis</i> splicing of <i>nad2</i> intron 1 and seed development in maize. <i>Plant Journal</i> , 2017, 91, 132-144.	5.7	88
13	The pentatricopeptide repeat protein <i>EMP9</i> is required for mitochondrial <i>ccmB</i> and <i>rps4</i> transcript editing, mitochondrial complex biogenesis and seed development in maize. <i>New Phytologist</i> , 2017, 214, 782-795.	7.3	68
14	Localization and targeting of the VP14 epoxy-carotenoid dioxygenase to chloroplast membranes. <i>Plant Journal</i> , 2001, 27, 373-382.	5.7	58
15	<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
16	The pentatricopeptide repeat protein <i>EMPTY PERICARP8</i> is required for the splicing of three mitochondrial introns and seed development in maize. <i>Plant Journal</i> , 2018, 95, 919-932.	5.7	52
17	The mitochondrial pentatricopeptide repeat protein <i>EMP12</i> is involved in the splicing of three <i>nad2</i> introns and seed development in maize. <i>Journal of Experimental Botany</i> , 2019, 70, 963-972.	4.8	50
18	The Mitochondrion-Targeted PENTATRICOPEPTIDE REPEAT78 Protein Is Required for <i>nad5</i> Mature mRNA Stability and Seed Development in Maize. <i>Molecular Plant</i> , 2017, 10, 1321-1333.	8.3	48

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19	Identification of an Active New <i>Mutator</i> Transposable Element in Maize. <i>C3: Genes, Genomes, Genetics</i> , 2011, 1, 293-302.	1.8	46
20	<i>EMP18</i> functions in mitochondrial <i>atp6</i> and <i>cox2</i> transcript editing and is essential to seed development in maize. <i>New Phytologist</i> , 2019, 221, 896-907.	7.3	40
21	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
22	PPR-SMR1 is required for the splicing of multiple mitochondrial introns, interacts with Zm-mCSF1, and is essential for seed development in maize. <i>Journal of Experimental Botany</i> , 2019, 70, 5245-5258.	4.8	36
23	Empty Pericarp21 encodes a novel PPR-DYW protein that is required for mitochondrial RNA editing at multiple sites, complexes I and V biogenesis, and seed development in maize. <i>PLoS Genetics</i> , 2019, 15, e1008305.	3.5	31
24	The Requirement of WHIRLY1 for Embryogenesis Is Dependent on Genetic Background in Maize. <i>PLoS ONE</i> , 2013, 8, e67369.	2.5	29
25	PPR20 Is Required for the cis-Splicing of Mitochondrial <i>nad2</i> Intron 3 and Seed Development in Maize. <i>Plant and Cell Physiology</i> , 2020, 61, 370-380.	3.1	29
26	ZmTE1 promotes plant height by regulating intercalary meristem formation and internode cell elongation in maize. <i>Plant Biotechnology Journal</i> , 2022, 20, 526-537.	8.3	27
27	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
28	The DYW-subgroup pentatricopeptide repeat protein PPR27 interacts with ZmMORF1 to facilitate mitochondrial RNA editing and seed development in maize. <i>Journal of Experimental Botany</i> , 2020, 71, 5495-5505.	4.8	20
29	<i>Embryo defective 14</i> encodes a plastid-targeted <i>cGTPase</i> essential for embryogenesis in maize. <i>Plant Journal</i> , 2015, 84, 785-799.	5.7	19
30	DEK46 performs C-to-U editing of a specific site in mitochondrial <i>nad7</i> introns that is critical for intron splicing and seed development in maize. <i>Plant Journal</i> , 2020, 103, 1767-1782.	5.7	19
31	A Distal ABA Responsive Element in AtNCED3 Promoter Is Required for Positive Feedback Regulation of ABA Biosynthesis in Arabidopsis. <i>PLoS ONE</i> , 2014, 9, e87283.	2.5	19
32	PPR14 Interacts With PPR-SMR1 and CRM Protein Zm-mCSF1 to Facilitate Mitochondrial Intron Splicing in Maize. <i>Frontiers in Plant Science</i> , 2020, 11, 814.	3.6	18
33	SMALL KERNEL4 is required for mitochondrial <i>cox1</i> transcript editing and seed development in maize. <i>Journal of Integrative Plant Biology</i> , 2020, 62, 777-792.	8.5	17
34	Two Pentatricopeptide Repeat Proteins Are Required for the Splicing of <i>nad5</i> Introns in Maize. <i>Frontiers in Plant Science</i> , 2020, 11, 732.	3.6	14
35	Maize biology: From functional genomics to breeding application. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 654-657.	8.5	13
36	The Mitochondrial Pentatricopeptide Repeat Protein PPR18 Is Required for the cis-Splicing of <i>nad4</i> Intron 1 and Essential to Seed Development in Maize. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4047.	4.1	13

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37	SMK6 mediates the C-to-U editing at multiple sites in maize mitochondria. <i>Journal of Plant Physiology</i> , 2019, 240, 152992.	3.5	11
38	Empty Pericarp24 and Empty Pericarp25 Are Required for the Splicing of Mitochondrial Introns, Complex I Assembly, and Seed Development in Maize. <i>Frontiers in Plant Science</i> , 2020, 11, 608550.	3.6	11
39	OsPPR939, a nad5 splicing factor, is essential for plant growth and pollen development in rice. <i>Theoretical and Applied Genetics</i> , 2021, 134, 923-940.	3.6	10
40	ZmPPR26, a DYW-type pentatricopeptide repeat protein, is required for C-to-U RNA editing at <i>atpA</i> -1148 in maize chloroplasts. <i>Journal of Experimental Botany</i> , 2021, 72, 4809-4821.	4.8	9
41	Measurement of Mitochondrial Respiration Rate in Maize (<i>Zea mays</i>) Leaves. <i>Bio-protocol</i> , 2015, 5, .	0.4	9
42	New insight in the Gibberellin biosynthesis and signal transduction. <i>Plant Signaling and Behavior</i> , 2015, 10, e1000140.	2.4	8
43	EMP32 is required for the <i>cis</i> -splicing of <i>nad7</i> intron 2 and seed development in maize. <i>RNA Biology</i> , 2021, 18, 499-509.	3.1	8
44	Regulator of Chromosome Condensation 1-Domain Protein DEK47 Functions on the Intron Splicing of Mitochondrial Nad2 and Seed Development in Maize. <i>Frontiers in Plant Science</i> , 2021, 12, 695249.	3.6	8
45	PPR-DYW Protein EMP17 Is Required for Mitochondrial RNA Editing, Complex III Biogenesis, and Seed Development in Maize. <i>Frontiers in Plant Science</i> , 2021, 12, 693272.	3.6	7
46	<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
47	DEK48 Is Required for RNA Editing at Multiple Mitochondrial Sites and Seed Development in Maize. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3064.	4.1	5
48	EMP80 mediates the C-to-U editing of <i>nad7</i> and <i>atp4</i> and interacts with ZmDYW2 in maize mitochondria. <i>New Phytologist</i> , 2022, 234, 1237-1248.	7.3	5