

David Bouchez

List of Publications by Year in descending order

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55
papers

9,525
citations

66343

42
h-index

161849

54
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57
all docs

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docs citations

57
times ranked

9869
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and Disruption of a Plant Shaker-like Outward Channel Involved in K ⁺ Release into the Xylem Sap. Cell, 1998, 94, 647-655.	28.9	676
2	Assessing the Impact of Transgenerational Epigenetic Variation on Complex Traits. PLoS Genetics, 2009, 5, e1000530.	3.5	669
3	AGO1 defines a novel locus of Arabidopsis controlling leaf development. EMBO Journal, 1998, 17, 170-180.	7.8	583
4	The GRAS gene family in Arabidopsis: sequence characterization and basic expression analysis of the SCARECROW-LIKE genes. Plant Journal, 1999, 18, 111-119.	5.7	572
5	Expression and disruption of the Arabidopsis TOR (target of rapamycin) gene. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6422-6427.	7.1	430
6	The Arabidopsis outward K ⁺ channel GORK is involved in regulation of stomatal movements and plant transpiration. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5549-5554.	7.1	388
7	Mitochondrial succinic-semialdehyde dehydrogenase of the \hat{A} -aminobutyrate shunt is required to restrict levels of reactive oxygen intermediates in plants. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6843-6848.	7.1	375
8	Role of a Single Aquaporin Isoform in Root Water Uptake. Plant Cell, 2003, 15, 509-522.	6.6	331
9	Normal differentiation patterns in plants lacking microtubular preprophase bands. Nature, 1995, 375, 676-677.	27.8	299
10	Bay-0—Shahdara recombinant inbred line population: a powerful tool for the genetic dissection of complex traits in Arabidopsis. Theoretical and Applied Genetics, 2002, 104, 1173-1184.	3.6	276
11	Arabidopsis gene knockout: phenotypes wanted. Current Opinion in Plant Biology, 2001, 4, 111-117.	7.1	272
12	<i>AtATM</i> Is Essential for Meiosis and the Somatic Response to DNA Damage in Plants[W]. Plant Cell, 2003, 15, 119-132.	6.6	267
13	The Arabidopsis TONNEAU2 Gene Encodes a Putative Novel Protein Phosphatase 2A Regulatory Subunit Essential for the Control of the Cortical Cytoskeleton. Plant Cell, 2002, 14, 833-845.	6.6	258
14	A Novel Family of Calmodulin-binding Transcription Activators in Multicellular Organisms. Journal of Biological Chemistry, 2002, 277, 21851-21861.	3.4	258
15	Physical Map and Organization of Arabidopsis thaliana Chromosome 4. Science, 1995, 270, 480-483.	12.6	230
16	Pollen tube development and competitive ability are impaired by disruption of a Shaker K ⁺ channel in Arabidopsis. Genes and Development, 2002, 16, 339-350.	5.9	195
17	The CIC library: a large insert YAC library for genome mapping in Arabidopsis thaliana. Plant Journal, 1995, 8, 763-770.	5.7	191
18	Functional Genomics in Plants. Plant Physiology, 1998, 118, 725-732.	4.8	183

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19	Mutations in the Dof Zinc Finger Genes DAG2 and DAG1 Influence with Opposite Effects the Germination of Arabidopsis Seeds. <i>Plant Cell</i> , 2002, 14, 1253-1263.	6.6	173
20	Expression of a truncated tobacco NtCBP4 channel in transgenic plants and disruption of the homologous Arabidopsis CNGC1 gene confer Pb ²⁺ tolerance. <i>Plant Journal</i> , 2000, 24, 533-542.	5.7	173
21	Arabidopsis TONNEAU1 Proteins Are Essential for Preprophase Band Formation and Interact with Centrin. <i>Plant Cell</i> , 2008, 20, 2146-2159.	6.6	166
22	Major Chromosomal Rearrangements Induced by T-DNA Transformation in Arabidopsis. <i>Genetics</i> , 1998, 149, 641-650.	2.9	161
23	β-Tubulin Is Essential for Microtubule Organization and Development in Arabidopsis. <i>Plant Cell</i> , 2006, 18, 1412-1425.	6.6	156
24	Function Search in a Large Transcription Factor Gene Family in Arabidopsis: Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. <i>Plant Cell</i> , 1999, 11, 1827-1840.	6.6	151
25	Disruption of putative anion channel gene AtCLC-a in Arabidopsis suggests a role in the regulation of nitrate content. <i>Plant Journal</i> , 2000, 21, 259-267.	5.7	151
26	Phenoscope: an automated large-scale phenotyping platform offering high spatial homogeneity. <i>Plant Journal</i> , 2013, 74, 534-544.	5.7	146
27	A protein phosphatase 2A complex spatially controls plant cell division. <i>Nature Communications</i> , 2013, 4, 1863.	12.8	138
28	Plasma membrane depolarization-activated calcium channels, stimulated by microtubule-depolymerizing drugs in wild-type Arabidopsis thaliana protoplasts, display constitutively large activities and a longer half-life in ton2 mutant cells affected in the organization of cortical microtubules. <i>Plant Journal</i> , 1998, 13, 603-610.	5.7	136
29	Identification and disruption of an Arabidopsis zinc finger gene controlling seed germination. <i>Genes and Development</i> , 2000, 14, 28-33.	5.9	132
30	Disruption of the Arabidopsis RAD50 gene leads to plant sterility and MMS sensitivity. <i>Plant Journal</i> , 2001, 25, 31-41.	5.7	128
31	The preprophase band of microtubules controls the robustness of division orientation in plants. <i>Science</i> , 2017, 356, 186-189.	12.6	123
32	Evidence for a large-scale population structure among accessions of Arabidopsis thaliana: possible causes and consequences for the distribution of linkage disequilibrium. <i>Molecular Ecology</i> , 2006, 15, 1507-1517.	3.9	122
33	Disease resistance gene homologs correlate with disease resistance loci of Arabidopsis thaliana. <i>Plant Journal</i> , 1998, 14, 467-474.	5.7	106
34	The Arabidopsis TRM1-TON1 Interaction Reveals a Recruitment Network Common to Plant Cortical Microtubule Arrays and Eukaryotic Centrosomes. <i>Plant Cell</i> , 2012, 24, 178-191.	6.6	97
35	N-Myristoylation Regulates the SnRK1 Pathway in Arabidopsis. <i>Plant Cell</i> , 2007, 19, 2804-2821.	6.6	91
36	RPE, a plant gene involved in early developmental steps of nematode feeding cells. <i>EMBO Journal</i> , 1998, 17, 6799-6811.	7.8	81

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37	A YAC contig map of <i>Arabidopsis thaliana</i> chromosome 3. <i>Plant Journal</i> , 1998, 14, 633-642.	5.7	77
38	Transformation of Pakchoi (<i>Brassica rapa</i> L. ssp. <i>chinensis</i>) by <i>Agrobacterium</i> infiltration. <i>Molecular Breeding</i> , 2000, 6, 67-72.	2.1	74
39	Does the ocs-element occur as a functional component of the promoters of plant genes?. <i>Plant Journal</i> , 1993, 4, 433-443.	5.7	72
40	The function of TONNEAU1 in moss reveals ancient mechanisms of division plane specification and cell elongation in land plants. <i>Development (Cambridge)</i> , 2010, 137, 2733-2742.	2.5	64
41	Organization of the agropine synthesis region of the T-DNA of the Ri plasmid from <i>Agrobacterium rhizogenes</i> . <i>Plasmid</i> , 1991, 25, 27-39.	1.4	59
42	The participation of AtXPB1, the XPB/RAD25 homologue gene from <i>Arabidopsis thaliana</i> , in DNA repair and plant development. <i>Plant Journal</i> , 2002, 28, 385-395.	5.7	51
43	A T-DNA Insertion Knockout of the Bifunctional Lysine-Ketoglutarate Reductase/Saccharopine Dehydrogenase Gene Elevates Lysine Levels in <i>Arabidopsis</i> Seeds. <i>Plant Physiology</i> , 2001, 126, 1539-1545.	4.8	40
44	identification of a putative rol B gene on the TR-DNA of the <i>Agrobacterium rhizogenes</i> A4 Ri plasmid. <i>Plant Molecular Biology</i> , 1990, 14, 617-619.	3.9	35
45	The 20S proteasome gene family in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 1997, 416, 281-285.	2.8	27
46	Blå type cyclins control microtubule organization during cell division in <i>Arabidopsis</i> . <i>EMBO Reports</i> , 2022, 23, e53995.	4.5	26
47	Kanamycin rescue: A simple technique for the recovery of T-DNA flanking sequences. <i>Plant Molecular Biology Reporter</i> , 1996, 14, 115-123.	1.8	25
48	Analysis of TR-DNA/plant junctions in the genome of a <i>Convolvulus arvensis</i> clone transformed by <i>Agrobacterium rhizogenes</i> strain A4. <i>Plant Molecular Biology</i> , 1989, 12, 75-85.	3.9	24
49	Molecular encounters at microtubule ends in the plant cell cortex. <i>Current Opinion in Plant Biology</i> , 2007, 10, 557-563.	7.1	24
50	Disruption of the <i>Arabidopsis RAD50</i> gene leads to plant sterility and MMS sensitivity. <i>Plant Journal</i> , 2001, 25, 31-41.	5.7	14
51	Function Search in a Large Transcription Factor Gene Family in <i>Arabidopsis</i> : Assessing the Potential of Reverse Genetics to Identify Insertional Mutations in R2R3 MYB Genes. <i>Plant Cell</i> , 1999, 11, 1827.	6.6	13
52	The Preprophase Band and Division Site Determination in Land Plants. <i>Advances in Plant Biology</i> , 2011, , 145-185.	0.8	7
53	Forward and reverse genetics in <i>Arabidopsis</i> : isolation of cytoskeletal mutants. <i>Cell Biology International</i> , 2003, 27, 249-250.	3.0	4
54	Cell Division Plane Determination in Plant Development. , 2014, , 1-26.		1

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55	Doper les enzymes. Biofutur, 1999, 1999, 10.	0.0	0