David Bouchez

List of Publications by Year
in descending order

55 papers	9,525 citations	66343 42 h-index	161849 54 g-index
57 all docs	57 docs citations	57 times ranked	9869 citing authors

#	Article	IF	Citations
1	B1â€type cyclins control microtubule organization during cell division in Arabidopsis. EMBO Reports, 2022, 23, e53995.	4.5	26
2	The preprophase band of microtubules controls the robustness of division orientation in plants. Science, 2017, 356, 186-189.	12.6	123
3	Cell Division Plane Determination in Plant Development. , 2014, , 1-26.		1
4	Phenoscope: an automated largeâ€scale phenotyping platform offering high spatial homogeneity. Plant Journal, 2013, 74, 534-544.	5.7	146
5	A protein phosphatase 2A complex spatially controls plant cell division. Nature Communications, 2013, 4, 1863.	12.8	138
6	TheArabidopsisTRM1â€“TON1 Interaction Reveals a Recruitment Network Common to Plant Cortical Microtubule Arrays and Eukaryotic Centrosomes Â. Plant Cell, 2012, 24, 178-191.	6.6	97
7	The Preprophase Band and Division Site Determination in Land Plants. Advances in Plant Biology, 2011, , 145-185.	0.8	7
8	The function of TONNEAU1 in moss reveals ancient mechanisms of division plane specification and cell elongation in land plants. Development (Cambridge), 2010, 137, 2733-2742.	2.5	64
9	Assessing the Impact of Transgenerational Epigenetic Variation on Complex Traits. PLoS Genetics, 2009, 5, e1000530.	3.5	669
10	ArabidopsisTONNEAU1 Proteins Are Essential for Preprophase Band Formation and Interact with Centrin. Plant Cell, 2008, 20, 2146-2159.	6.6	166
11	N-Myristoylation Regulates the SnRK1 Pathway inArabidopsis. Plant Cell, 2007, 19, 2804-2821.	6.6	91
12	Molecular encounters at microtubule ends in the plant cell cortex. Current Opinion in Plant Biology, 2007, 10, 557-563.	7.1	24
13	Evidence for a large-scale population structure among accessions of Arabidopsis thaliana: possible causes and consequences for the distribution of linkage disequilibrium. Molecular Ecology, 2006, 15, 1507-1517.	3.9	122
14	Î³-Tubulin Is Essential for Microtubule Organization and Development in Arabidopsis. Plant Cell, 2006, 18, 1412-1425.	6.6	156
15	Forward and reverse genetics in Arabidopsis: isolation of cytoskeletal mutants. Cell Biology International, 2003, 27, 249-250.	3.0	4
16	AtATMIs Essential for Meiosis and the Somatic Response to DNA Damage in Plants[W]. Plant Cell, 2003, 15, 119-132.	6.6	267
17	Mitochondrial succinic-semialdehyde dehydrogenase of the Â-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
18	Role of a Single Aquaporin Isoform in Root Water Uptake. Plant Cell, 2003, 15, 509-522.	6.6	331

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19	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
20	Mutations in the Dof Zinc Finger Genes DAG2 and DAG1 Influence with Opposite Effects the Germination of Arabidopsis Seeds. Plant Cell, 2002, 14, 1253-1263.	6.6	173
21	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
22	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
23	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
24	A Novel Family of Calmodulin-binding Transcription Activators in Multicellular Organisms. Journal of Biological Chemistry, 2002, 277, 21851-21861.	3.4	258
25	Bay-0ÂÃ—ÂShahdara 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
26	The participation of AtXPB1, the XPB/RAD25 homologue gene from Arabidopsis thaliana, in DNA repair and plant development. Plant Journal, 2002, 28, 385-395.	5.7	51
27	Disruption of the Arabidopsis RAD50 gene leads to plant sterility and MMS sensitivity. Plant Journal, 2001, 25, 31-41.	5.7	14
28	Arabidopsis gene knockout: phenotypes wanted. Current Opinion in Plant Biology, 2001, 4, 111-117.	7.1	272
29	A T-DNA Insertion Knockout of the Bifunctional Lysine-Ketoglutarate Reductase/Saccharopine Dehydrogenase Gene Elevates Lysine Levels in Arabidopsis Seeds. Plant Physiology, 2001, 126, 1539-1545.	4.8	40
30	Disruption of the Arabidopsis RAD50 gene leads to plant sterility and MMS sensitivity. Plant Journal, 2001, 25, 31-41.	5.7	128
31	Disruption of putative anion channel gene AtCLC-a in Arabidopsis suggests a role in the regulation of nitrate content. Plant Journal, 2000, 21, 259-267.	5.7	151
32	Transformation of Pakchoi (Brassica rapa L. ssp. chinensis) by Agrobacterium infiltration. Molecular Breeding, 2000, 6, 67-72.	2.1	74
33	Expression of a truncated tobacco NtCBP4 channel in transgenic plants and disruption of the homologous Arabidopsis CNGC1 gene confer Pb2+ tolerance. Plant Journal, 2000, 24, 533-542.	5.7	173
34	Identification and disruption of an Arabidopsis zinc finger gene controlling seed germination. Genes and Development, 2000, 14, 28-33.	5.9	132
35	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. Plant Cell, 1999, 11, 1827-1840.	6.6	151
36	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

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37	Doper les enzymes. Biofutur, 1999, 1999, 10.	0.0	0
38	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. Plant Cell, 1999, 11, 1827.	6.6	13
39	AGO1 defines a novel locus of Arabidopsis controlling leaf development. EMBO Journal, 1998, 17, 170-180.	7.8	583
40	RPE, a plant gene involved in early developmental steps of nematode feeding cells. EMBO Journal, 1998, 17, 6799-6811.	7.8	81
41	Plasma membrane depolarizationâ€activated calcium channels, stimulated by microtubuleâ€depolymerizing drugs in wildâ€typeArabidopsis thalianaprotoplasts, display constitutively large activities and a longer halfâ€life inton2 mutant cells affected in the organization of cortical microtubules. Plant Journal, 1998, 13, 603-610.	5.7	136
42	Disease resistance gene homologs correlate with disease resistance loci ofArabidopsis thaliana. Plant Journal, 1998, 14, 467-474.	5.7	106
43	A YAC contig map of Arabidopsis thaliana chromosome 3. Plant Journal, 1998, 14, 633-642.	5.7	77
44	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
45	Functional Genomics in Plants. Plant Physiology, 1998, 118, 725-732.	4.8	183
46	Major Chromosomal Rearrangements Induced by T-DNA Transformation in Arabidopsis. Genetics, 1998, 149, 641-650.	2.9	161
47	The 20S proteasome gene family inArabidopsis thaliana. FEBS Letters, 1997, 416, 281-285.	2.8	27
48	Kanamycin rescue: A simple technique for the recovery of T-DNA flanking sequences. Plant Molecular Biology Reporter, 1996, 14, 115-123.	1.8	25
49	The CIC library: a large insert YAC library for genome mapping in Arabidopsis thaliana. Plant Journal, 1995, 8, 763-770.	5.7	191
50	Normal differentiation patterns in plants lacking microtubular preprophase bands. Nature, 1995, 375, 676-677.	27.8	299
51	Physical Map and Organization of Arabidopsis thaliana Chromosome 4. Science, 1995, 270, 480-483.	12.6	230
52	Does the ocs-element occur as a functional component of the promoters of plant genes?. Plant Journal, 1993, 4, 433-443.	5.7	72
53	Organization of the agropine synthesis region of the T-DNA of the Ri plasmid from Agrobacterium rhizogenes. Plasmid, 1991, 25, 27-39.	1.4	59
54	identification of a putative rol B gene on the TR-DNA of the Agrobacterium rhizogens A4 Ri plasmid. Plant Molecular Biology, 1990, 14, 617-619.	3.9	35

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55	Analysis of TR-DNA/plant junctions in the genome of a Convolvulus arvensis clone transformed by Agrobacterium rhizogenes strain A4. Plant Molecular Biology, 1989, 12, 75-85.	3.9	24