Stuart A Casson

List of Publications by Year
in descending order

36 papers	3,165 citations	279798 23 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	3930 citing authors

#	Article	IF	Citations
1	Influence of environmental factors on stomatal development. New Phytologist, 2008, 178, 9-23.	7.3	300
2	Environmental regulation of stomatal development. Current Opinion in Plant Biology, 2010, 13, 90-95.	7.1	234
3	Early transcriptomic events in microdissected Arabidopsis nematode-induced giant cells. Plant Journal, 2010, 61, 698-712.	5.7	216
4	Elevated CO 2 -Induced Responses in Stomata Require ABA and ABA Signaling. Current Biology, 2015, 25, 2709-2716.	3.9	201
5	Laser capture microdissection for the analysis of gene expression during embryogenesis of Arabidopsis. Plant Journal, 2005, 42, 111-123.	5.7	190
6	The POLARIS Gene of Arabidopsis Encodes a Predicted Peptide Required for Correct Root Growth and Leaf Vascular Patterning. Plant Cell, 2002, 14, 1705-1721.	6.6	164
7	phytochrome B and PIF4 Regulate Stomatal Development in Response to Light Quantity. Current Biology, 2009, 19, 229-234.	3.9	164
8	Land Plants Acquired Active Stomatal Control Early in Their Evolutionary History. Current Biology, 2011, 21, 1030-1035.	3.9	162
9	The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. Plant Cell, 2006, 18, 3058-3072.	6.6	146
10	Origin and function of stomata in the moss Physcomitrella patens. Nature Plants, 2016, 2, 16179.	9.3	138
11	Genes and signalling in root development. New Phytologist, 2003, 158, 11-38.	7.3	130
12	Peptides: new signalling molecules in plants. Trends in Plant Science, 2002, 7, 78-83.	8.8	129
13	Transcriptional Profiling of the Arabidopsis Embryo. Plant Physiology, 2007, 143, 924-940.	4.8	119
14	Putting the brakes on: abscisic acid as a central environmental regulator of stomatal development. New Phytologist, 2014, 202, 376-391.	7.3	117
15	Molecular control of stomatal development. Biochemical Journal, 2018, 475, 441-454.	3.7	106
16	Genes and signalling in root development. New Phytologist, 2003, 158, 11-38.	7.3	92
17	The turnip Mutant of Arabidopsis Reveals That LEAFY COTYLEDON1 Expression Mediates the Effects of Auxin and Sugars to Promote Embryonic Cell Identity. Plant Physiology, 2006, 142, 526-541.	4.8	91
18	KNAT6 gene of Arabidopsis is expressed in roots and is required for correct lateral root formation. Plant Molecular Biology, 2004, 54, 71-84.	3.9	86

#	Article	IF	Citations
19	Developmental Priming of Stomatal Sensitivity to Abscisic Acid by Leaf Microclimate. Current Biology, 2013, 23, 1805-1811.	3.9	80
20	phytochrome B Is Required for Light-Mediated Systemic Control of Stomatal Development. Current Biology, 2014, 24, 1216-1221.	3.9	59
21	Dynamic thylakoid stacking and state transitions work synergistically to avoid acceptor-side limitation of photosystem I. Nature Plants, 2021, 7, 87-98.	9.3	42
22	Isolation of RNA from laserâ€capturedâ€microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. Molecular Plant Pathology, 2009, 10, 523-535.	4.2	39
23	MERISTEMâ€DEFECTIVE, an RS domain protein, is required for the correct meristem patterning and function in Arabidopsis. Plant Journal, 2009, 57, 857-869.	5.7	32
24	Characterization of a proteinase inhibitor from Brachypodium distachyon suggests the conservation of defence signalling pathways between dicotyledonous plants and grasses. Molecular Plant Pathology, 2004, 5, 267-280.	4.2	20
25	GSK3-Like Kinases Integrate Brassinosteroid Signaling and Stomatal Development. Science Signaling, 2012, 5, pe30.	3.6	20
26	Connecting stomatal development and physiology. New Phytologist, 2014, 201, 1079-1082.	7.3	17
27	HY5 is not integral to light mediated stomatal development in Arabidopsis. PLoS ONE, 2020, 15, e0222480.	2.5	14
28	Stomatal responses to carbon dioxide and light require abscisic acid catabolism in <i>Arabidopsis</i>. Interface Focus, 2021, 11, 20200036.	3.0	12
29	Intercellular Peptide Signals Regulate Plant Meristematic Cell Fate Decisions. Science Signaling, 2008, 1, pe53.	3.6	11
30	Laser-Capture Microdissection to Study Global Transcriptional Changes During Plant Embryogenesis. Methods in Molecular Biology, 2008, 427, 111-120.	0.9	10
31	The Arabidopsis Râ€SNARE VAMP714 is essential for polarisation of PIN proteins and auxin responses. New Phytologist, 2021, 230, 550-566.	7.3	10
32	Inhibition of Arabidopsis stomatal development by plastoquinone oxidation. Current Biology, 2021, 31, 5622-5632.e7.	3.9	8
33	Physio-biochemical responses and expressional profiling analysis of drought tolerant genes in new promising rice genotype. PLoS ONE, 2022, 17, e0266087.	2.5	4
34	Plant Development: Suppression the Key toÂAsymmetric Cell Fate. Current Biology, 2016, 26, R1137-R1139.	3.9	1
35	The POLARIS Peptide. , 2006, , 23-27.		1
36	POLARIS. , 2013, , 40-45.		0