

Jane A Langdale

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87 papers	4,718 citations	39 h-index	68 g-index
97 ext. papers	5,851 ext. citations	8.2 avg, IF	5.65 L-index

#	Paper	IF	Citations
87	Installation of C photosynthetic pathway enzymes in rice using a single construct. <i>Plant Biotechnology Journal</i> , 2021 , 19, 575-588	11.6	21
86	NO GAMETOPHORES 2 Is a Novel Regulator of the 2D to 3D Growth Transition in the Moss <i>Physcomitrella patens</i> . <i>Current Biology</i> , 2021 , 31, 555-563.e4	6.3	8
85	Single Nucleotide Polymorphism Charting of Reveals Accumulation of Somatic Mutations During Culture on the Scale of Natural Variation by Selfing. <i>Frontiers in Plant Science</i> , 2020 , 11, 813	6.2	7
84	Maize GOLDEN2-LIKE genes enhance biomass and grain yields in rice by improving photosynthesis and reducing photoinhibition. <i>Communications Biology</i> , 2020 , 3, 151	6.7	19
83	gene function is required for photosynthetic development in maize. <i>Plant Direct</i> , 2020 , 4, e00264	3.3	1
82	Redundant genes pattern distinct cell layers in roots and leaves of maize. <i>Development (Cambridge)</i> , 2019 , 146,	6.6	16
81	A modular steroid-inducible gene expression system for use in rice. <i>BMC Plant Biology</i> , 2019 , 19, 426	5.3	7
80	Somatic hybridization provides segregating populations for the identification of causative mutations in sterile mutants of the moss <i>Physcomitrella patens</i> . <i>New Phytologist</i> , 2018 , 218, 1270-1277	9.8	8
79	Anatomy and ultrastructure of embryonic leaves of the C4 species <i>Setaria viridis</i> . <i>Annals of Botany</i> , 2018 , 121, 1163-1172	4.1	7
78	Genetic Regulation of the 2D to 3D Growth Transition in the Moss <i>Physcomitrella patens</i> . <i>Current Biology</i> , 2018 , 28, 473-478.e5	6.3	40
77	maintains apical stem cell activity during shoot development in the fern. <i>ELife</i> , 2018 , 7,	8.9	19
76	SHORTROOT-Mediated Increase in Stomatal Density Has No Impact on Photosynthetic Efficiency. <i>Plant Physiology</i> , 2018 , 176, 757-772	6.6	24
75	Understanding the Genetic Basis of C Kranz Anatomy with a View to Engineering C Crops. <i>Annual Review of Genetics</i> , 2018 , 52, 249-270	14.5	39
74	Re-creation of a Key Step in the Evolutionary Switch from C to C Leaf Anatomy. <i>Current Biology</i> , 2017 , 27, 3278-3287.e6	6.3	57
73	Candidate regulators of Early Leaf Development in Maize Perturb Hormone Signalling and Secondary Cell Wall Formation When Constitutively Expressed in Rice. <i>Scientific Reports</i> , 2017 , 7, 4535	4.9	9
72	Nonreciprocal complementation of KNOX gene function in land plants. <i>New Phytologist</i> , 2017 , 216, 591-604	9.8	26
71	Finding the genes to build C4 rice. <i>Current Opinion in Plant Biology</i> , 2016 , 31, 44-50	9.9	33

70	Establishment of <i>Anthoceros agrestis</i> as a model species for studying the biology of hornworts. <i>BMC Plant Biology</i> , 2015 , 15, 98	5.3	40
69	Laser capture microdissection in <i>Ectocarpus siliculosus</i> : the pathway to cell-specific transcriptomics in brown algae. <i>Frontiers in Plant Science</i> , 2015 , 6, 54	6.2	8
68	Two forward genetic screens for vein density mutants in sorghum converge on a cytochrome P450 gene in the brassinosteroid pathway. <i>Plant Journal</i> , 2015 , 84, 257-66	6.9	24
67	Standards for plant synthetic biology: a common syntax for exchange of DNA parts. <i>New Phytologist</i> , 2015 , 208, 13-9	9.8	167
66	Protocol: genetic transformation of the fern <i>Ceratopteris richardii</i> through microparticle bombardment. <i>Plant Methods</i> , 2015 , 11, 37	5.8	19
65	Ferns: the missing link in shoot evolution and development. <i>Frontiers in Plant Science</i> , 2015 , 6, 972	6.2	41
64	Identification of reference genes for real-time quantitative PCR experiments in the liverwort <i>Marchantia polymorpha</i> . <i>PLoS ONE</i> , 2015 , 10, e0118678	3.7	40
63	Cracking the Kranz enigma with systems biology. <i>Journal of Experimental Botany</i> , 2014 , 65, 3327-39	7	41
62	The impact of widespread regulatory neofunctionalization on homeolog gene evolution following whole-genome duplication in maize. <i>Genome Research</i> , 2014 , 24, 1348-55	9.7	60
61	Horizontal transfer of an adaptive chimeric photoreceptor from bryophytes to ferns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6672-7	11.5	121
60	High-efficiency stable transformation of the model fern species <i>Ceratopteris richardii</i> via microparticle bombardment. <i>Plant Physiology</i> , 2014 , 165, 3-14	6.6	45
59	Evolution and development: PINpointing the origins of auxin transport mechanisms. <i>Current Biology</i> , 2014 , 24, R1129-31	6.3	2
58	Between two fern genomes. <i>GigaScience</i> , 2014 , 3, 15	7.6	56
57	Genome-wide transcript analysis of early maize leaf development reveals gene cohorts associated with the differentiation of C4 Kranz anatomy. <i>Plant Journal</i> , 2013 , 75, 656-70	6.9	76
56	Evolution of GOLDEN2-LIKE gene function in C(3) and C (4) plants. <i>Planta</i> , 2013 , 237, 481-95	4.7	52
55	The corona of the daffodil <i>Narcissus bulbocodium</i> shares stamen-like identity and is distinct from the orthodox floral whorls. <i>Plant Journal</i> , 2013 , 74, 615-25	6.9	14
54	Conserved transport mechanisms but distinct auxin responses govern shoot patterning in <i>Selaginella kraussiana</i> . <i>New Phytologist</i> , 2013 , 198, 419-428	9.8	38
53	The evolution of land plant cilia. <i>New Phytologist</i> , 2012 , 195, 526-540	9.8	30

52	Individual maize chromosomes in the C(3) plant oat can increase bundle sheath cell size and vein density. <i>Plant Physiology</i> , 2012 , 159, 1418-27	6.6	23
51	C4 cycles: past, present, and future research on C4 photosynthesis. <i>Plant Cell</i> , 2011 , 23, 3879-92	11.6	136
50	Conservation of ciliary proteins in plants with no cilia. <i>BMC Plant Biology</i> , 2011 , 11, 185	5.3	22
49	Sector analysis and predictive modelling reveal iterative shoot-like development in fern fronds. <i>Development (Cambridge)</i> , 2011 , 138, 2925-34	6.6	22
48	Reconstructing the evolutionary history of the centriole from protein components. <i>Journal of Cell Science</i> , 2010 , 123, 1407-13	5.3	184
47	The Filifolium1 mutation perturbs shoot architecture in Zea mays (Poaceae). <i>American Journal of Botany</i> , 2009 , 96, 1594-602	2.7	1
46	GLK transcription factors coordinate expression of the photosynthetic apparatus in Arabidopsis. <i>Plant Cell</i> , 2009 , 21, 1109-28	11.6	358
45	Local cues and asymmetric cell divisions underpin body plan transitions in the moss Physcomitrella patens. <i>Current Biology</i> , 2009 , 19, 461-71	6.3	106
44	The making of a chloroplast. <i>EMBO Journal</i> , 2009 , 28, 2861-73	13	161
43	Specialization of the Golden2-like regulatory pathway during land plant evolution. <i>New Phytologist</i> , 2009 , 183, 133-141	9.8	17
42	GLK transcription factors regulate chloroplast development in a cell-autonomous manner. <i>Plant Journal</i> , 2008 , 56, 432-44	6.9	155
41	Using C4 photosynthesis to increase the yield of rice-rationale and feasibility. <i>Current Opinion in Plant Biology</i> , 2008 , 11, 228-31	9.9	274
40	Evolution of developmental mechanisms in plants. <i>Current Opinion in Genetics and Development</i> , 2008 , 18, 368-73	4.9	40
39	Growth from two transient apical initials in the meristem of Selaginella kraussiana. <i>Development (Cambridge)</i> , 2007 , 134, 881-9	6.6	52
38	A step by step guide to phylogeny reconstruction. <i>Plant Journal</i> , 2006 , 45, 561-72	6.9	78
37	Independent recruitment of a conserved developmental mechanism during leaf evolution. <i>Nature</i> , 2005 , 434, 509-14	50.4	162
36	A conserved transcription factor mediates nuclear control of organelle biogenesis in anciently diverged land plants. <i>Plant Cell</i> , 2005 , 17, 1894-907	11.6	83
35	CORKSCREW1 defines a novel mechanism of domain specification in the maize shoot. <i>Plant Physiology</i> , 2005 , 138, 1396-408	6.6	8

34	The role of KNOX genes in the evolution of morphological novelty in <i>Streptocarpus</i> . <i>Plant Cell</i> , 2005 , 17, 430-43	11.6	42
33	GLK gene pairs regulate chloroplast development in diverse plant species. <i>Plant Journal</i> , 2002 , 31, 713-28.	9	212
32	Plastids undifferentiated, a nuclear mutation that disrupts plastid differentiation in <i>Zea mays</i> L. <i>Planta</i> , 2001 , 213, 647-58	4.7	4
31	The maize golden2 gene defines a novel class of transcriptional regulators in plants. <i>Plant Cell</i> , 2001 , 13, 1231-44	11.6	126
30	Four mutant alleles elucidate the role of the G2 protein in the development of C(4) and C(3) photosynthesizing maize tissues. <i>Genetics</i> , 2001 , 159, 787-97	4	17
29	BUNDLE SHEATH DEFECTIVE2, a Novel Protein Required for Post-Translational Regulation of the rbcL Gene of Maize. <i>Plant Cell</i> , 1999 , 11, 849	11.6	1
28	BUNDLE SHEATH DEFECTIVE2, a novel protein required for post-translational regulation of the rbcL gene of maize. <i>Plant Cell</i> , 1999 , 11, 849-64	11.6	133
27	The maize rough sheath2 gene and leaf development programs in monocot and dicot plants. <i>Science</i> , 1999 , 284, 154-6	33.3	265
26	Disruption of auxin transport is associated with aberrant leaf development in maize. <i>Plant Physiology</i> , 1999 , 121, 1163-8	6.6	91
25	Transcripts of maize RbcS genes accumulate differentially in C3 and C4 tissues. <i>Plant Molecular Biology</i> , 1998 , 36, 593-9	4.6	23
24	The formation of leaves. <i>Current Opinion in Plant Biology</i> , 1998 , 1, 43-8	9.9	22
23	Cellular differentiation in the leaf. <i>Current Opinion in Cell Biology</i> , 1998 , 10, 734-8	9	18
22	GOLDEN 2: a novel transcriptional regulator of cellular differentiation in the maize leaf. <i>Plant Cell</i> , 1998 , 10, 925-36	11.6	115
21	Signals in Leaf Development. <i>Advances in Botanical Research</i> , 1998 , 28, 161-195	2.2	9
20	GOLDEN 2: A Novel Transcriptional Regulator of Cellular Differentiation in the Maize Leaf. <i>Plant Cell</i> , 1998 , 10, 925	11.6	0
19	A functional calvin cycle is not indispensable for the light activation of C4 phosphoenolpyruvate carboxylase kinase and its target enzyme in the maize mutant bundle sheath defective2-mutable1. <i>Plant Physiology</i> , 1998 , 118, 191-7	6.6	20
18	bundle sheath defective2, a Mutation That Disrupts the Coordinated Development of Bundle Sheath and Mesophyll Cells in the Maize Leaf. <i>Plant Cell</i> , 1996 , 8, 915	11.6	21
17	Molecular genetics of cellular differentiation in leaves. <i>New Phytologist</i> , 1996 , 132, 533-553	9.8	34

16	In situ Hybridization 1994 , 165-180		23
15	Interactions between tassel seed genes and other sex determining genes in maize. <i>Genesis</i> , 1994 , 15, 155-171		46
14	Action of the Tunicate locus on maize floral development. <i>Genesis</i> , 1994 , 15, 176-187		9
13	Plant morphogenesis. More knots untied. <i>Current Biology</i> , 1994 , 4, 529-31	6.3	10
12	Spatial regulation of photosynthetic development in C4 plants. <i>Trends in Genetics</i> , 1991 , 7, 191-6	8.5	69
11	Cell-specific accumulation of maize phosphoenolpyruvate carboxylase is correlated with demethylation at a specific site greater than 3 kb upstream of the gene. <i>Molecular Genetics and Genomics</i> , 1991 , 225, 49-55		64
10	Expression of a Maize Cell Wall Hydroxyproline-Rich Glycoprotein Gene in Early Leaf and Root Vascular Differentiation. <i>Plant Cell</i> , 1990 , 2, 785	11.6	5
9	Cell lineage analysis of maize bundle sheath and mesophyll cells. <i>Developmental Biology</i> , 1989 , 133, 128-39	3.2	93
8	Patterns of Leaf Development in C4 Plants. <i>Plant Cell</i> , 1989 , 1, 3	11.6	12
7	Crosslinking of single-stranded DNA to resins. <i>Methods in Molecular Biology</i> , 1988 , 4, 431-6	1.4	
6	The argentia mutation delays normal development of photosynthetic cell-types in Zea mays. <i>Developmental Biology</i> , 1987 , 122, 243-55	3.1	76
5	A rapid method of gene detection using DNA bound to Sephacryl. <i>Gene</i> , 1985 , 36, 201-10	3.8	43
4	Magnetic DNA. <i>Biochemical Society Transactions</i> , 1984 , 12, 693-694	5.1	5
3	Applying for a job in academia81-92		
2	Developmental transitions during the evolution of plant form299-316		11
1	Conditional Stomatal Closure in a Fern Shares Molecular Features with Flowering Plant Active Stomatal Responses		1