Keith Lindsey

List of Publications by Year
in descending order

132 papers	9,286 citations	26567 56 h-index	42291 92 g-index
145 all docs	145 docs citations	145 times ranked	8793 citing authors

#	Article	IF	Citations
1	Degradation of deâ€esterified pctin/homogalacturonan by the polygalacturonase GhNSP is necessary for pollen exine formation and male fertility in cotton. Plant Biotechnology Journal, 2022, 20, 1054-1068.	4.1	13
2	Dynamic 3D genome architecture of cotton fiber reveals subgenome-coordinated chromatin topology for 4-staged single-cell differentiation. Genome Biology, 2022, 23, 45.	3.8	18
3	Development of an efficient and precise adenine base editor (ABE) with expanded target range in allotetraploid cotton (Gossypium hirsutum). BMC Biology, 2022, 20, 45.	1.7	33
4	Root growth responses to mechanical impedance are regulated by a network of ROS, ethylene and auxin signalling in Arabidopsis. New Phytologist, 2021, 231, 225-242.	3.5	36
5	The Arabidopsis Râ€SNARE VAMP714 is essential for polarisation of PIN proteins and auxin responses. New Phytologist, 2021, 230, 550-566.	3.5	10
6	A Singleâ€Nucleotide Mutation in a GLUTAMATE RECEPTORâ€LIKE Gene Confers Resistance to Fusarium Wilt in <i>Gossypium hirsutum</i>. Advanced Science, 2021, 8, 2002723.	5.6	37
7	Plant 3D genomics: the exploration and application of chromatin organization. New Phytologist, 2021, 230, 1772-1786.	3.5	23
8	Cotton pan-genome retrieves the lost sequences and genes during domestication and selection. Genome Biology, 2021, 22, 119.	3.8	76
9	Orchestration of plant development and defense by indirect crosstalk of salicylic acid and brassinosteorid signaling via transcription factor GhTINY2. Journal of Experimental Botany, 2021, 72, 4721-4743.	2.4	20
10	A combination of genomeâ€wide and transcriptomeâ€wide association studies reveals genetic elements leading to male sterility during high temperature stress in cotton. New Phytologist, 2021, 231, 165-181.	3.5	33
11	Gibberellin signaling mediates lateral root inhibition in response to K+-deprivation. Plant Physiology, 2021, 185, 1198-1215.	2.3	21
12	Silencing of aÂ<i>LIM</i> gene in cotton exhibits enhanced resistance against <i>Apolygus lucorum</i>. Journal of Cellular Physiology, 2021, 236, 5921-5936.	2.0	8
13	Highâ€efficient and precise base editing of Câ€¢G to Tâ€¢A in the allotetraploid cotton (<i>Gossypium) Tj ETQq1 1 0.784314 rgBT /Ove 2020, 18, 45-56.	4.1	114
14	Vesicle Transport in Plants: A Revised Phylogeny of SNARE Proteins. Evolutionary Bioinformatics, 2020, 16, 117693432095657.	0.6	12
15	Combined GWAS and eQTL analysis uncovers a genetic regulatory network orchestrating the initiation of secondary cell wall development in cotton. New Phytologist, 2020, 226, 1738-1752.	3.5	74
16	The application of a heatâ€inducible CRISPR/Cas12b (C2c1) genome editing system in tetraploid cotton (<i>G.Âhirsutum</i>) plants. Plant Biotechnology Journal, 2020, 18, 2436-2443.	4.1	58
17	Will rising atmospheric <scp>CO₂</scp> concentration inhibit nitrate assimilation in shoots but enhance it in roots of <scp>C₃</scp> plants?. Physiologia Plantarum, 2020, 170, 40-45.	2.6	19
18	CRISPR/Cas Systems in Genome Editing: Methodologies and Tools for sgRNA Design, Offâ€Target Evaluation, and Strategies to Mitigate Offâ€Target Effects. Advanced Science, 2020, 7, 1902312.	5.6	162

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19	Understanding hormonal crosstalk in Arabidopsis root development via emulation and history matching. Statistical Applications in Genetics and Molecular Biology, 2020, 19, .	0.2	2
20	Multiâ€omics analyses reveal epigenomics basis for cotton somatic embryogenesis through successive regeneration acclimation process. Plant Biotechnology Journal, 2019, 17, 435-450.	4.1	88
21	The chromosome-scale reference genome of black pepper provides insight into piperine biosynthesis. Nature Communications, 2019, 10, 4702.	5.8	115
22	CRISPR/Cas System: Recent Advances and Future Prospects for Genome Editing. Trends in Plant Science, 2019, 24, 1102-1125.	4.3	292
23	GhCyP3 improves the resistance of cotton to Verticillium dahliae by inhibiting the E3 ubiquitin ligase activity of GhPUB17. Plant Molecular Biology, 2019, 99, 379-393.	2.0	18
24	Elevated CO2 effects on nitrogen assimilation and growth of C3 vascular plants are similar regardless of N-form assimilated. Journal of Experimental Botany, 2019, 70, 683-690.	2.4	52
25	Reference genome sequences of two cultivated allotetraploid cottons, Gossypium hirsutum and Gossypium barbadense. Nature Genetics, 2019, 51, 224-229.	9.4	468
26	Whole genome sequencing reveals rare offâ€target mutations and considerable inherent genetic or/and somaclonal variations in <scp>CRISPR</scp>/Cas9â€edited cotton plants. Plant Biotechnology Journal, 2019, 17, 858-868.	4.1	159
27	The GhmiR157aâ€“GhSPL10 regulatory module controls initial cellular dedifferentiation and callus proliferation in cotton by modulating ethylene-mediated flavonoid biosynthesis. Journal of Experimental Botany, 2018, 69, 1081-1093.	2.4	66
28	Bayesian uncertainty analysis for complex systems biology models: emulation, global parameter searches and evaluation of gene functions. BMC Systems Biology, 2018, 12, 1.	3.0	87
29	Epidermal expression of a sterol biosynthesis gene regulates root growth by a non-cell autonomous mechanism in<i>Arabidopsis</i>. Development (Cambridge), 2018, 145, .	1.2	14
30	A global survey of alternative splicing in allopolyploid cotton: landscape, complexity and regulation. New Phytologist, 2018, 217, 163-178.	3.5	173
31	Laccase GhLac1 Modulates Broad-Spectrum Biotic Stress Tolerance via Manipulating Phenylpropanoid Pathway and Jasmonic Acid Synthesis. Plant Physiology, 2018, 176, 1808-1823.	2.3	186
32	Long noncoding <scp>RNA</scp>s involve in resistance to <i>Verticillium dahliae</i>, a fungal disease in cotton. Plant Biotechnology Journal, 2018, 16, 1172-1185.	4.1	121
33	A recovery principle provides insight into auxin pattern control in the Arabidopsis root. Scientific Reports, 2017, 7, 43004.	1.6	16
34	Asymmetric subgenome selection and cis-regulatory divergence during cotton domestication. Nature Genetics, 2017, 49, 579-587.	9.4	367
35	A transgenic strategy for controlling plant bugs (<i>Adelphocoris suturalis</i>) through expression of doubleâ€stranded RNA homologous to fatty acylâ€coenzyme A reductase in cotton. New Phytologist, 2017, 215, 1173-1185.	3.5	53
36	Crosstalk Complexities between Auxin, Cytokinin, and EthyleneÂin Arabidopsis Root Development: From Experiments to Systems Modeling, and Back Again. Molecular Plant, 2017, 10, 1480-1496.	3.9	146

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37	Suppression of the homeobox gene <i>HDTF1</i> enhances resistance to <i>Verticillium dahliae</i> and <i>Botrytis cinerea</i> in cotton. Journal of Integrative Plant Biology, 2016, 58, 503-513.	4.1	63
38	ROS Homeostasis Regulates Somatic Embryogenesis via the Regulation of Auxin Signaling in Cotton. Molecular and Cellular Proteomics, 2016, 15, 2108-2124.	2.5	59
39	Abscisic acid regulates root growth under osmotic stress conditions via an interacting hormonal network with cytokinin, ethylene and auxin. New Phytologist, 2016, 211, 225-239.	3.5	221
40	On the nature of fibres grown from nanodiamond colloids. Materials Chemistry and Physics, 2016, 173, 325-332.	2.0	12
41	Long noncoding <scp>RNA</scp>s and their proposed functions in fibre development of cotton (<i>Gossypium</i> spp.). New Phytologist, 2015, 207, 1181-1197.	3.5	160
42	Spatiotemporal modelling of hormonal crosstalk explains the level and patterning of hormones and gene expression in <i>Arabidopsis thaliana</i> wildâ€type and mutant roots. New Phytologist, 2015, 207, 1110-1122.	3.5	37
43	Some fundamental aspects of modeling auxin patterning in the context of auxin-ethylene-cytokinin crosstalk. Plant Signaling and Behavior, 2015, 10, e1056424.	1.2	5
44	Programmed cell death during development of cowpea (<scp><i>V</i></scp><i>igna unguiculata</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	11
45	Hormonal crosstalk for root development: a combined experimental and modeling perspective. Frontiers in Plant Science, 2014, 5, 116.	1.7	51
46	The calcium sensor <scp>G</scp>h<scp>C</scp>a<scp>M</scp>7 promotes cotton fiber elongation by modulating reactive oxygen species (<scp>ROS</scp>) production. New Phytologist, 2014, 202, 509-520.	3.5	121
47	Small <scp>RNA</scp> and degradome profiling reveals a role for mi<scp>RNA</scp>s and their targets in the developing fibers of <i><scp>G</scp>ossypium barbadense</i>. Plant Journal, 2014, 80, 331-344.	2.8	81
48	Elucidating the regulation of complex signalling systems in plant cells. Biochemical Society Transactions, 2014, 42, 219-223.	1.6	4
49	Distinct and conserved transcriptomic changes during nematodeâ€induced giant cell development in tomato compared with Arabidopsis: a functional role for gene repression. New Phytologist, 2013, 197, 1276-1290.	3.5	98
50	Small RNA and degradome sequencing reveal complex miRNA regulation during cotton somatic embryogenesis. Journal of Experimental Botany, 2013, 64, 1521-1536.	2.4	179
51	Transcriptional analysis through RNA sequencing of giant cells induced by Meloidogyne graminicola in rice roots. Journal of Experimental Botany, 2013, 64, 3885-3898.	2.4	128
52	Interaction of PLS and PIN and hormonal crosstalk in Arabidopsis root development. Frontiers in Plant Science, 2013, 4, 75.	1.7	47
53	POLARIS. , 2013, , 40-45.		0
54	New editorial leadership: new ideas, but same old values. New Phytologist, 2012, 195, 501-502.	3.5	0

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55	Functional complementation of dwf4 mutants of Arabidopsis by overexpression of CYP724A1. Journal of Plant Physiology, 2012, 169, 421-428.	1.6	22
56	Roots, water, and nutrient acquisition: let's get physical. Trends in Plant Science, 2012, 17, 701-710.	4.3	141
57	Water supply and not nitrate concentration determines primary root growth in <i>Arabidopsis</i>. Plant, Cell and Environment, 2011, 34, 1630-1638.	2.8	31
58	The effects of extracellular adenosine 5â€²-triphosphate on the tobacco proteome. Proteomics, 2010, 10, 235-244.	1.3	34
59	Early transcriptomic events in microdissected Arabidopsis nematode-induced giant cells. Plant Journal, 2010, 61, 698-712.	2.8	216
60	Modelling and experimental analysis of hormonal crosstalk in <i>Arabidopsis</i>. Molecular Systems Biology, 2010, 6, 373.	3.2	64
61	Analysis of Vascular Development in the hydra Sterol Biosynthetic Mutants of Arabidopsis. PLoS ONE, 2010, 5, e12227.	1.1	25
62	Extracellular ATP. Plant Signaling and Behavior, 2009, 4, 1078-1080.	1.2	9
63	MERISTEMâ€DEFECTIVE, an RS domain protein, is required for the correct meristem patterning and function in Arabidopsis. Plant Journal, 2009, 57, 857-869.	2.8	32
64	Extracellular ATP is a regulator of pathogen defence in plants. Plant Journal, 2009, 60, 436-448.	2.8	116
65	Isolation of RNA from laserâ€captureâ€microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. Molecular Plant Pathology, 2009, 10, 523-535.	2.0	39
66	Laser-Capture Microdissection to Study Global Transcriptional Changes During Plant Embryogenesis. Methods in Molecular Biology, 2008, 427, 111-120.	0.4	10
67	Transcriptional Profiling of the Arabidopsis Embryo. Plant Physiology, 2007, 143, 924-940.	2.3	119
68	Discovery via Proteomics of a Novel Cell Signalling Pathway in Plants Involving Extracellular ATP. , 2007, , 71-86.		0
69	Polarity in Plants. Annual Plant Reviews, Volume 12. Edited by KeithÂ Lindsey. Oxford: Blackwell Publishing; Boca Raton (Florida): CRC Press. $169.95. xiv + 346 p + 1 pl; ill.; index. ISBN: 0â€“8493â€“2344â€“4. 2004.. Quarterly Review of Biology, 2006, 81, 68-68.	0.0	0
70	Apicalâ€“basal polarity: why plant cells don't standon their heads. Trends in Plant Science, 2006, 11, 12-14.	4.3	37
71	The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. Plant Cell, 2006, 18, 3058-3072.	3.1	146
72	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.	2.3	91

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73	Proteomic analysis of differentially expressed proteins in fungal elicitor-treated Arabidopsis cell cultures. Journal of Experimental Botany, 2006, 57, 1553-1562.	2.4	102
74	Characterization of FaRB7, a near root-specific gene from strawberry (Fragariaxananassa Duch.) and promoter activity analysis in homologous and heterologous hosts. Journal of Experimental Botany, 2006, 57, 3901-3910.	2.4	36
75	The POLARIS Peptide. , 2006, , 23-27.		1
76	Laser capture microdissection for the analysis of gene expression during embryogenesis of Arabidopsis. Plant Journal, 2005, 42, 111-123.	2.8	190
77	Extracellular ATP Functions as an Endogenous External Metabolite Regulating Plant Cell Viability. Plant Cell, 2005, 17, 3019-3034.	3.1	172
78	Can genetic manipulation of plant nitrogen assimilation enzymes result in increased crop yield and greater N-use efficiency? An assessment. Annals of Applied Biology, 2004, 145, 25-40.	1.3	127
79	KNAT6 gene of Arabidopsis is expressed in roots and is required for correct lateral root formation. Plant Molecular Biology, 2004, 54, 71-84.	2.0	86
80	Rescue of defective auxin-mediated gene expression and root meristem function by inhibition of ethylene signalling in sterol biosynthesis mutants of Arabidopsis. Planta, 2004, 219, 773-83.	1.6	28
81	EXORDIUM- a gene expressed in proliferating cells and with a role in meristem function, identified by promoter trapping in Arabidopsis. Plant Journal, 2003, 33, 61-73.	2.8	39
82	Genes and signalling in root development. New Phytologist, 2003, 158, 11-38.	3.5	92
83	Genes and signalling in root development. New Phytologist, 2003, 158, 11-38.	3.5	130
84	Importance of plant sterols in pattern formation and hormone signalling. Trends in Plant Science, 2003, 8, 521-525.	4.3	125
85	The POLARIS Gene of Arabidopsis Encodes a Predicted Peptide Required for Correct Root Growth and Leaf Vascular Patterning. Plant Cell, 2002, 14, 1705-1721.	3.1	164
86	hydra Mutants of Arabidopsis Are Defective in Sterol Profiles and Auxin and Ethylene Signaling. Plant Cell, 2002, 14, 1017-1031.	3.1	187
87	Peptides: new signalling molecules in plants. Trends in Plant Science, 2002, 7, 78-83.	4.3	129
88	Plant peptide hormones: The long and the short of it. Current Biology, 2001, 11, R741-R743.	1.8	20
89	Concerted Efforts To Develop Handles For Plant Parasitic Nematode Control. Developments in Plant Genetics and Breeding, 2000, 6, 159-167.	0.6	0
90	Polarity and signalling in plant embryogenesis. Journal of Experimental Botany, 2000, 51, 971-983.	2.4	104

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91	On the relationship between the plant cell and the plant. Seminars in Cell and Developmental Biology, 1998, 9, 171-177.	2.3	9
92	Introduction: The green signal for plant pattern formation. Seminars in Cell and Developmental Biology, 1998, 9, 169-170.	2.3	0
93	Use of the GUS Reporter Gene. Methods in Biotechnology, 1998, , 39-47.	0.2	1
94	Potato Transformation. , 1998, 81, 353-358.		3
95	Activities of CaMV 35S andnospromoters in pollen: implications for field release of transgenic plants. Journal of Experimental Botany, 1997, 48, 265-275.	2.4	124
96	Promoter trap markers differentiate structural and positional components of polar development in Arabidopsis.. Plant Cell, 1997, 9, 1713-1725.	3.1	94
97	Regulatory Sequences of Arabidopsis Drive Reporter Gene Expression in Nematode Feeding Structures. Plant Cell, 1997, 9, 2119.	3.1	1
98	Promoter Trap Markers Differentiate Structural and Positional Components of Polar Development in Arabidopsis. Plant Cell, 1997, 9, 1713.	3.1	25
99	Regulatory sequences of Arabidopsis drive reporter gene expression in nematode feeding structures.. Plant Cell, 1997, 9, 2119-2134.	3.1	99
100	A novel nucleic acid helicase gene identified by promoter trapping in Arabidopsis. Plant Journal, 1997, 11, 1307-1314.	2.8	39
101	A novel transient assay system demonstrates that DT-Atsm is a temperature-sensitive toxin in plant tissues. Plant Science, 1996, 113, 59-65.	1.7	3
102	The Significance of Microspore Division and Division Symmetry for Vegetative Cell-Specific Transcription and Generative Cell Differentiation. Plant Cell, 1995, 7, 65.	3.1	33
103	Pollen viability and transgene expression following storage in honey. Transgenic Research, 1995, 4, 226-231.	1.3	16
104	Insertional mutagenesis and promoter trapping in plants for the isolation of genes and the study of development. Transgenic Research, 1995, 4, 291-305.	1.3	34
105	Agrobacterium-Mediated Transformation of Arabidopsis thaliana: Application in T-DNA Tagging. , 1995, 49, 63-76.		7
106	Electroporation of Tobacco Leaf Protoplasts Using Plasmid DNA or Total Genomic DNA. , 1995, 55, 89-108.		5
107	Identification of molecular markers of embryogenesis in Arabidopsis thaliana by promoter trapping. Plant Journal, 1994, 5, 895-903.	2.8	89
108	Methanol does not specifically inhibit endogenous Î²-glucuronidase (GUS) activity. Plant Science, 1994, 97, 61-67.	1.7	15

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109	Differential activation and conserved vegetative cell-specific activity of a late pollen promoter in species with bicellular and tricellular pollen. Plant Journal, 1994, 5, 543-550.	2.8	39
110	Differential gene expression in nematode-induced feeding structures of transgenic plants harbouring promoter-gusA fusion constructs. Plant Journal, 1993, 4, 863-873.	2.8	179
111	Tagging genomic sequences that direct transgene expression by activation of a promoter trap in plants. Transgenic Research, 1993, 2, 33-47.	1.3	132
112	Embryogenesis: a Question of Pattern. Journal of Experimental Botany, 1993, 44, 359-374.	2.4	69
113	Gene rescue in plants by direct gene transfer of total genomic DNA into protoplasts. Nucleic Acids Research, 1992, 20, 3977-3982.	6.5	8
114	Genetic manipulation of crop plants. Journal of Biotechnology, 1992, 26, 1-28.	1.9	36
115	High-frequency transformation ofArabidopsis thaliana byAgrobacterium tumefaciens. Plant Molecular Biology Reporter, 1992, 10, 178-189.	1.0	61
116	Regeneration and transformation of sugarbeet by Agrobacterium tumefaciens. , 1991, , 321-333.		1
117	Shoot cultures and root cultures of tobacco. , 1991, , 67-79.		1
118	Electroporation of cells. Physiologia Plantarum, 1990, 79, 168-172.	2.6	13
119	Transformation of Sugarbeet (Beta vulgaris) byAgrobacterium tumefaciens. Journal of Experimental Botany, 1990, 41, 529-536.	2.4	86
120	Stable transformation of sugarbeet protoplasts by electroporation. Plant Cell Reports, 1989, 8, 71-74.	2.8	35
121	Plant Tissue Culture. , 1988, 4, 499-518.		2
122	Plant Protoplast Fusion. , 1988, 4, 481-498.		0
123	Direct Gene Transfer into Plant Protoplasts. , 1988, 4, 519-536.		1
124	[36] Techniques for the immobilization of plant cells. Methods in Enzymology, 1987, , 410-421.	0.4	5
125	The permeability of electroporated cells and protoplasts of sugar beet. Planta, 1987, 172, 346-355.	1.6	35
126	Transient gene expression in electroporated protoplasts and intact cells of sugar beet. Plant Molecular Biology, 1987, 10, 43-52.	2.0	85

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127	Incorporation of [14C]phenylalanine and [14C]cinnamic acid into capsaicin in cultured cells of Capsicum frutescens. Phytochemistry, 1986, 25, 2793-2801.	1.4	25
128	Manipulation, by nutrient limitation, of the biosynthetic activity of immobilized cells of Capsicum frutescens Mill. cv. annuum. Planta, 1985, 165, 126-133.	1.6	58
129	The Viability and Biosynthetic Activity of Cells of Capsicum frutescens Mill. cv. annuum Immobilized in Reticulate Polyurethane. Journal of Experimental Botany, 1984, 35, 1684-1696.	2.4	44
130	The synthetic potential of immobilised cells of Capsicum frutescens Mill cv. annuum. Planta, 1984, 162, 495-501.	1.6	94
131	The Relationship between Growth Rate, Differentiation and Alkaloid Accumulation in Cell Cultures. Journal of Experimental Botany, 1983, 34, 1055-1065.	2.4	178
132	A novel method for the immobilisation and culture of plant cells. FEBS Letters, 1983, 155, 143-149.	1.3	137