

Keith Lindsey

List of Publications by Year in descending order

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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	Reference genome sequences of two cultivated allotetraploid cottons, <i>Gossypium hirsutum</i> and <i>Gossypium barbadense</i> . <i>Nature Genetics</i> , 2019, 51, 224-229.	9.4	468
2	Asymmetric subgenome selection and cis-regulatory divergence during cotton domestication. <i>Nature Genetics</i> , 2017, 49, 579-587.	9.4	367
3	CRISPR/Cas System: Recent Advances and Future Prospects for Genome Editing. <i>Trends in Plant Science</i> , 2019, 24, 1102-1125.	4.3	292
4	Abscisic acid regulates root growth under osmotic stress conditions via an interacting hormonal network with cytokinin, ethylene and auxin. <i>New Phytologist</i> , 2016, 211, 225-239.	3.5	221
5	Early transcriptomic events in microdissected <i>Arabidopsis</i> nematode-induced giant cells. <i>Plant Journal</i> , 2010, 61, 698-712.	2.8	216
6	Laser capture microdissection for the analysis of gene expression during embryogenesis of <i>Arabidopsis</i> . <i>Plant Journal</i> , 2005, 42, 111-123.	2.8	190
7	hydra Mutants of <i>Arabidopsis</i> Are Defective in Sterol Profiles and Auxin and Ethylene Signaling. <i>Plant Cell</i> , 2002, 14, 1017-1031.	3.1	187
8	Laccase GhLac1 Modulates Broad-Spectrum Biotic Stress Tolerance via Manipulating Phenylpropanoid Pathway and Jasmonic Acid Synthesis. <i>Plant Physiology</i> , 2018, 176, 1808-1823.	2.3	186
9	Differential gene expression in nematode-induced feeding structures of transgenic plants harbouring promoter-gusA fusion constructs. <i>Plant Journal</i> , 1993, 4, 863-873.	2.8	179
10	Small RNA and degradome sequencing reveal complex miRNA regulation during cotton somatic embryogenesis. <i>Journal of Experimental Botany</i> , 2013, 64, 1521-1536.	2.4	179
11	The Relationship between Growth Rate, Differentiation and Alkaloid Accumulation in Cell Cultures. <i>Journal of Experimental Botany</i> , 1983, 34, 1055-1065.	2.4	178
12	A global survey of alternative splicing in allopolyploid cotton: landscape, complexity and regulation. <i>New Phytologist</i> , 2018, 217, 163-178.	3.5	173
13	Extracellular ATP Functions as an Endogenous External Metabolite Regulating Plant Cell Viability. <i>Plant Cell</i> , 2005, 17, 3019-3034.	3.1	172
14	The POLARIS Gene of <i>Arabidopsis</i> Encodes a Predicted Peptide Required for Correct Root Growth and Leaf Vascular Patterning. <i>Plant Cell</i> , 2002, 14, 1705-1721.	3.1	164
15	CRISPR/Cas Systems in Genome Editing: Methodologies and Tools for sgRNA Design, Off-target Evaluation, and Strategies to Mitigate Off-target Effects. <i>Advanced Science</i> , 2020, 7, 1902312.	5.6	162
16	Long noncoding RNA's and their proposed functions in fibre development of cotton (<i>Gossypium</i> spp.). <i>New Phytologist</i> , 2015, 207, 1181-1197.	3.5	160
17	Whole genome sequencing reveals rare off-target mutations and considerable inherent genetic or/and somaclonal variations in CRISPR/Cas9 edited cotton plants. <i>Plant Biotechnology Journal</i> , 2019, 17, 858-868.	4.1	159
18	The POLARIS Peptide of <i>Arabidopsis</i> Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. <i>Plant Cell</i> , 2006, 18, 3058-3072.	3.1	146

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19	Crosstalk Complexities between Auxin, Cytokinin, and Ethylene in Arabidopsis Root Development: From Experiments to Systems Modeling, and Back Again. <i>Molecular Plant</i> , 2017, 10, 1480-1496.	3.9	146
20	Roots, water, and nutrient acquisition: let's get physical. <i>Trends in Plant Science</i> , 2012, 17, 701-710.	4.3	141
21	A novel method for the immobilisation and culture of plant cells. <i>FEBS Letters</i> , 1983, 155, 143-149.	1.3	137
22	Tagging genomic sequences that direct transgene expression by activation of a promoter trap in plants. <i>Transgenic Research</i> , 1993, 2, 33-47.	1.3	132
23	Genes and signalling in root development. <i>New Phytologist</i> , 2003, 158, 11-38.	3.5	130
24	Peptides: new signalling molecules in plants. <i>Trends in Plant Science</i> , 2002, 7, 78-83.	4.3	129
25	Transcriptional analysis through RNA sequencing of giant cells induced by <i>Meloidogyne graminicola</i> in rice roots. <i>Journal of Experimental Botany</i> , 2013, 64, 3885-3898.	2.4	128
26	Can genetic manipulation of plant nitrogen assimilation enzymes result in increased crop yield and greater N-use efficiency? An assessment. <i>Annals of Applied Biology</i> , 2004, 145, 25-40.	1.3	127
27	Importance of plant sterols in pattern formation and hormone signalling. <i>Trends in Plant Science</i> , 2003, 8, 521-525.	4.3	125
28	Activities of CaMV 35S and nos promoters in pollen: implications for field release of transgenic plants. <i>Journal of Experimental Botany</i> , 1997, 48, 265-275.	2.4	124
29	The calcium sensor <i>GhCaM7</i> promotes cotton fiber elongation by modulating reactive oxygen species (<i>ROS</i>) production. <i>New Phytologist</i> , 2014, 202, 509-520.	3.5	121
30	Long noncoding <i>RNA</i> s involve in resistance to <i>Verticillium dahliae</i> , a fungal disease in cotton. <i>Plant Biotechnology Journal</i> , 2018, 16, 1172-1185.	4.1	121
31	Transcriptional Profiling of the Arabidopsis Embryo. <i>Plant Physiology</i> , 2007, 143, 924-940.	2.3	119
32	Extracellular ATP is a regulator of pathogen defence in plants. <i>Plant Journal</i> , 2009, 60, 436-448.	2.8	116
33	The chromosome-scale reference genome of black pepper provides insight into piperine biosynthesis. <i>Nature Communications</i> , 2019, 10, 4702.	5.8	115
34	Highly efficient and precise base editing of C to A in the allotetraploid cotton (<i>Gossypium</i>) Tj ETQq000rgBT/Overlock 10 2020, 18, 45-56.	4.1	114
35	Polarity and signalling in plant embryogenesis. <i>Journal of Experimental Botany</i> , 2000, 51, 971-983.	2.4	104
36	Proteomic analysis of differentially expressed proteins in fungal elicitor-treated Arabidopsis cell cultures. <i>Journal of Experimental Botany</i> , 2006, 57, 1553-1562.	2.4	102

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37	Regulatory sequences of Arabidopsis drive reporter gene expression in nematode feeding structures.. Plant Cell, 1997, 9, 2119-2134.	3.1	99
38	Distinct and conserved transcriptomic changes during nematode-induced giant cell development in tomato compared with Arabidopsis: a functional role for gene repression. New Phytologist, 2013, 197, 1276-1290.	3.5	98
39	The synthetic potential of immobilised cells of Capsicum frutescens Mill cv. annum. Planta, 1984, 162, 495-501.	1.6	94
40	Promoter trap markers differentiate structural and positional components of polar development in Arabidopsis.. Plant Cell, 1997, 9, 1713-1725.	3.1	94
41	Genes and signalling in root development. New Phytologist, 2003, 158, 11-38.	3.5	92
42	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
43	Identification of molecular markers of embryogenesis in Arabidopsis thaliana by promoter trapping. Plant Journal, 1994, 5, 895-903.	2.8	89
44	Multi-omics analyses reveal epigenomics basis for cotton somatic embryogenesis through successive regeneration acclimation process. Plant Biotechnology Journal, 2019, 17, 435-450.	4.1	88
45	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
46	Transformation of Sugarbeet (Beta vulgaris) by Agrobacterium tumefaciens. Journal of Experimental Botany, 1990, 41, 529-536.	2.4	86
47	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
48	Transient gene expression in electroporated protoplasts and intact cells of sugar beet. Plant Molecular Biology, 1987, 10, 43-52.	2.0	85
49	Small RNA and degradome profiling reveals a role for miRNAs and their targets in the developing fibers of Glycyssypium barbadense. Plant Journal, 2014, 80, 331-344.	2.8	81
50	Cotton pan-genome retrieves the lost sequences and genes during domestication and selection. Genome Biology, 2021, 22, 119.	3.8	76
51	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
52	Embryogenesis: a Question of Pattern. Journal of Experimental Botany, 1993, 44, 359-374.	2.4	69
53	The GhmiR157-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
54	Modelling and experimental analysis of hormonal crosstalk in Arabidopsis. Molecular Systems Biology, 2010, 6, 373.	3.2	64

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55	Suppression of the homeobox gene <i>HDTF1</i> enhances resistance to <i>Verticillium dahliae</i> and <i>Botrytis cinerea</i> in cotton. <i>Journal of Integrative Plant Biology</i> , 2016, 58, 503-513.	4.1	63
56	High-frequency transformation of <i>Arabidopsis thaliana</i> by <i>Agrobacterium tumefaciens</i> . <i>Plant Molecular Biology Reporter</i> , 1992, 10, 178-189.	1.0	61
57	ROS Homeostasis Regulates Somatic Embryogenesis via the Regulation of Auxin Signaling in Cotton. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 2108-2124.	2.5	59
58	Manipulation, by nutrient limitation, of the biosynthetic activity of immobilized cells of <i>Capsicum frutescens</i> Mill. cv. <i>annuum</i> . <i>Planta</i> , 1985, 165, 126-133.	1.6	58
59	The application of a heat-inducible CRISPR/Cas12b (C2c1) genome editing system in tetraploid cotton (<i>G. hirsutum</i>) plants. <i>Plant Biotechnology Journal</i> , 2020, 18, 2436-2443.	4.1	58
60	A transgenic strategy for controlling plant bugs (<i>Adelphocoris suturalis</i>) through expression of double-stranded RNA homologous to fatty acyl-coenzyme A reductase in cotton. <i>New Phytologist</i> , 2017, 215, 1173-1185.	3.5	53
61	Elevated CO ₂ effects on nitrogen assimilation and growth of C ₃ vascular plants are similar regardless of N-form assimilated. <i>Journal of Experimental Botany</i> , 2019, 70, 683-690.	2.4	52
62	Hormonal crosstalk for root development: a combined experimental and modeling perspective. <i>Frontiers in Plant Science</i> , 2014, 5, 116.	1.7	51
63	Interaction of PLS and PIN and hormonal crosstalk in <i>Arabidopsis</i> root development. <i>Frontiers in Plant Science</i> , 2013, 4, 75.	1.7	47
64	The Viability and Biosynthetic Activity of Cells of <i>Capsicum frutescens</i> Mill. cv. <i>annuum</i> Immobilized in Reticulate Polyurethane. <i>Journal of Experimental Botany</i> , 1984, 35, 1684-1696.	2.4	44
65	A novel nucleic acid helicase gene identified by promoter trapping in <i>Arabidopsis</i> . <i>Plant Journal</i> , 1997, 11, 1307-1314.	2.8	39
66	EXORDIUM- a gene expressed in proliferating cells and with a role in meristem function, identified by promoter trapping in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2003, 33, 61-73.	2.8	39
67	Isolation of RNA from laser-capture-microdissected giant cells at early differentiation stages suitable for differential transcriptome analysis. <i>Molecular Plant Pathology</i> , 2009, 10, 523-535.	2.0	39
68	Differential activation and conserved vegetative cell-specific activity of a late pollen promoter in species with bicellular and tricellular pollen. <i>Plant Journal</i> , 1994, 5, 543-550.	2.8	39
69	Apical-basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , 2006, 11, 12-14.	4.3	37
70	Spatiotemporal modelling of hormonal crosstalk explains the level and patterning of hormones and gene expression in <i>Arabidopsis thaliana</i> wild-type and mutant roots. <i>New Phytologist</i> , 2015, 207, 1110-1122.	3.5	37
71	A Single Nucleotide Mutation in a GLUTAMATE RECEPTOR-LIKE Gene Confers Resistance to Fusarium Wilt in <i>Gossypium hirsutum</i> . <i>Advanced Science</i> , 2021, 8, 2002723.	5.6	37
72	Genetic manipulation of crop plants. <i>Journal of Biotechnology</i> , 1992, 26, 1-28.	1.9	36

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73	Characterization of FaRB7, a near root-specific gene from strawberry (<i>Fragaria x ananassa</i> Duch.) and promoter activity analysis in homologous and heterologous hosts. <i>Journal of Experimental Botany</i> , 2006, 57, 3901-3910.	2.4	36
74	Root growth responses to mechanical impedance are regulated by a network of ROS, ethylene and auxin signalling in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021, 231, 225-242.	3.5	36
75	The permeability of electroporated cells and protoplasts of sugar beet. <i>Planta</i> , 1987, 172, 346-355.	1.6	35
76	Stable transformation of sugarbeet protoplasts by electroporation. <i>Plant Cell Reports</i> , 1989, 8, 71-74.	2.8	35
77	Insertional mutagenesis and promoter trapping in plants for the isolation of genes and the study of development. <i>Transgenic Research</i> , 1995, 4, 291-305.	1.3	34
78	The effects of extracellular adenosine 5'-triphosphate on the tobacco proteome. <i>Proteomics</i> , 2010, 10, 235-244.	1.3	34
79	The Significance of Microspore Division and Division Symmetry for Vegetative Cell-Specific Transcription and Generative Cell Differentiation. <i>Plant Cell</i> , 1995, 7, 65.	3.1	33
80	A combination of genome-wide and transcriptome-wide association studies reveals genetic elements leading to male sterility during high temperature stress in cotton. <i>New Phytologist</i> , 2021, 231, 165-181.	3.5	33
81	Development of an efficient and precise adenine base editor (ABE) with expanded target range in allotetraploid cotton (<i>Gossypium hirsutum</i>). <i>BMC Biology</i> , 2022, 20, 45.	1.7	33
82	MERISTEM-DEFECTIVE, an RS domain protein, is required for the correct meristem patterning and function in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2009, 57, 857-869.	2.8	32
83	Water supply and not nitrate concentration determines primary root growth in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 1630-1638.	2.8	31
84	Rescue of defective auxin-mediated gene expression and root meristem function by inhibition of ethylene signalling in sterol biosynthesis mutants of <i>Arabidopsis</i> . <i>Planta</i> , 2004, 219, 773-83.	1.6	28
85	Incorporation of [¹⁴ C]phenylalanine and [¹⁴ C]cinnamic acid into capsaicin in cultured cells of <i>Capsicum frutescens</i> . <i>Phytochemistry</i> , 1986, 25, 2793-2801.	1.4	25
86	Promoter Trap Markers Differentiate Structural and Positional Components of Polar Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 1997, 9, 1713.	3.1	25
87	Analysis of Vascular Development in the hydra Sterol Biosynthetic Mutants of <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2010, 5, e12227.	1.1	25
88	Plant 3D genomics: the exploration and application of chromatin organization. <i>New Phytologist</i> , 2021, 230, 1772-1786.	3.5	23
89	Functional complementation of <i>dwf4</i> mutants of <i>Arabidopsis</i> by overexpression of CYP724A1. <i>Journal of Plant Physiology</i> , 2012, 169, 421-428.	1.6	22
90	Gibberellin signaling mediates lateral root inhibition in response to K ⁺ -deprivation. <i>Plant Physiology</i> , 2021, 185, 1198-1215.	2.3	21

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91	Plant peptide hormones: The long and the short of it. <i>Current Biology</i> , 2001, 11, R741-R743.	1.8	20
92	Orchestration of plant development and defense by indirect crosstalk of salicylic acid and brassinosteroid signaling via transcription factor GhTINY2. <i>Journal of Experimental Botany</i> , 2021, 72, 4721-4743.	2.4	20
93	Will rising atmospheric CO_2 concentration inhibit nitrate assimilation in shoots but enhance it in roots of C_3 plants?. <i>Physiologia Plantarum</i> , 2020, 170, 40-45.	2.6	19
94	GhCyP3 improves the resistance of cotton to <i>Verticillium dahliae</i> by inhibiting the E3 ubiquitin ligase activity of GhPUB17. <i>Plant Molecular Biology</i> , 2019, 99, 379-393.	2.0	18
95	Dynamic 3D genome architecture of cotton fiber reveals subgenome-coordinated chromatin topology for 4-staged single-cell differentiation. <i>Genome Biology</i> , 2022, 23, 45.	3.8	18
96	Pollen viability and transgene expression following storage in honey. <i>Transgenic Research</i> , 1995, 4, 226-231.	1.3	16
97	A recovery principle provides insight into auxin pattern control in the <i>Arabidopsis</i> root. <i>Scientific Reports</i> , 2017, 7, 43004.	1.6	16
98	Methanol does not specifically inhibit endogenous β -glucuronidase (GUS) activity. <i>Plant Science</i> , 1994, 97, 61-67.	1.7	15
99	Epidermal expression of a sterol biosynthesis gene regulates root growth by a non-cell autonomous mechanism in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2018, 145, .	1.2	14
100	Electroporation of cells. <i>Physiologia Plantarum</i> , 1990, 79, 168-172.	2.6	13
101	Degradation of deacetylated pectin/homogalacturonan by the polygalacturonase GhNSP is necessary for pollen exine formation and male fertility in cotton. <i>Plant Biotechnology Journal</i> , 2022, 20, 1054-1068.	4.1	13
102	On the nature of fibres grown from nanodiamond colloids. <i>Materials Chemistry and Physics</i> , 2016, 173, 325-332.	2.0	12
103	Vesicle Transport in Plants: A Revised Phylogeny of SNARE Proteins. <i>Evolutionary Bioinformatics</i> , 2020, 16, 117693432095657.	0.6	12
104	Programmed cell death during development of cowpea (<i>Vigna unguiculata</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.8	11
105	Laser-Capture Microdissection to Study Global Transcriptional Changes During Plant Embryogenesis. <i>Methods in Molecular Biology</i> , 2008, 427, 111-120.	0.4	10
106	The <i>Arabidopsis</i> SNARE VAMP714 is essential for polarisation of PIN proteins and auxin responses. <i>New Phytologist</i> , 2021, 230, 550-566.	3.5	10
107	On the relationship between the plant cell and the plant. <i>Seminars in Cell and Developmental Biology</i> , 1998, 9, 171-177.	2.3	9
108	Extracellular ATP. <i>Plant Signaling and Behavior</i> , 2009, 4, 1078-1080.	1.2	9

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109	Gene rescue in plants by direct gene transfer of total genomic DNA into protoplasts. <i>Nucleic Acids Research</i> , 1992, 20, 3977-3982.	6.5	8
110	Silencing of a <i>LIM</i> gene in cotton exhibits enhanced resistance against <i>Apolygus lucorum</i> . <i>Journal of Cellular Physiology</i> , 2021, 236, 5921-5936.	2.0	8
111	<i>Agrobacterium</i> -Mediated Transformation of <i>Arabidopsis thaliana</i> : Application in T-DNA Tagging. , 1995, 49, 63-76.		7
112	[36] Techniques for the immobilization of plant cells. <i>Methods in Enzymology</i> , 1987, , 410-421.	0.4	5
113	Electroporation of Tobacco Leaf Protoplasts Using Plasmid DNA or Total Genomic DNA. , 1995, 55, 89-108.		5
114	Some fundamental aspects of modeling auxin patterning in the context of auxin-ethylene-cytokinin crosstalk. <i>Plant Signaling and Behavior</i> , 2015, 10, e1056424.	1.2	5
115	Elucidating the regulation of complex signalling systems in plant cells. <i>Biochemical Society Transactions</i> , 2014, 42, 219-223.	1.6	4
116	A novel transient assay system demonstrates that DT-Atsm is a temperature-sensitive toxin in plant tissues. <i>Plant Science</i> , 1996, 113, 59-65.	1.7	3
117	Potato Transformation. , 1998, 81, 353-358.		3
118	Plant Tissue Culture. , 1988, 4, 499-518.		2
119	Understanding hormonal crosstalk in <i>Arabidopsis</i> root development via emulation and history matching. <i>Statistical Applications in Genetics and Molecular Biology</i> , 2020, 19, .	0.2	2
120	Direct Gene Transfer into Plant Protoplasts. , 1988, 4, 519-536.		1
121	Regulatory Sequences of <i>Arabidopsis</i> Drive Reporter Gene Expression in Nematode Feeding Structures. <i>Plant Cell</i> , 1997, 9, 2119.	3.1	1
122	Use of the GUS Reporter Gene. <i>Methods in Biotechnology</i> , 1998, , 39-47.	0.2	1
123	The POLARIS Peptide. , 2006, , 23-27.		1
124	Regeneration and transformation of sugarbeet by <i>Agrobacterium tumefaciens</i> . , 1991, , 321-333.		1
125	Shoot cultures and root cultures of tobacco. , 1991, , 67-79.		1
126	Plant Protoplast Fusion. , 1988, 4, 481-498.		0

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127	Introduction: The green signal for plant pattern formation. Seminars in Cell and Developmental Biology, 1998, 9, 169-170.	2.3	0
128	Concerted Efforts To Develop Handles For Plant Parasitic Nematode Control. Developments in Plant Genetics and Breeding, 2000, 6, 159-167.	0.6	0
129	Polarity in Plants. Annual Plant Reviews, Volume 12. Edited by Keith Lindsey. Oxford: Blackwell Publishing; Boca Raton (Florida): CRC Press. \$169.95. xiv + 346 p + 1 pl; ill.; index. ISBN: 0-8493-2344-4. 2004.. Quarterly Review of Biology, 2006, 81, 68-68.	0.0	0
130	New editorial leadership: new ideas, but same old values. New Phytologist, 2012, 195, 501-502.	3.5	0
131	POLARIS. , 2013, , 40-45.		0
132	Discovery via Proteomics of a Novel Cell Signalling Pathway in Plants Involving Extracellular ATP. , 2007, , 71-86.		0