

Christian S Hardtke

List of Publications by Year in descending order

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90
papers

9,386
citations

53794

45
h-index

48315

88
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97
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97
docs citations

97
times ranked

9114
citing authors

#	ARTICLE	IF	CITATIONS
1	Auxin transport in developing protophloem: A case study in canalization. <i>Journal of Plant Physiology</i> , 2022, 269, 153594.	3.5	12
2	A conserved module regulates receptor kinase signalling in immunity and development. <i>Nature Plants</i> , 2022, 8, 356-365.	9.3	27
3	Mapping and engineering of auxin-induced plasma membrane dissociation in BRX family proteins. <i>Plant Cell</i> , 2021, 33, 1945-1960.	6.6	19
4	Metaphloem development in the <i>Arabidopsis</i> root tip. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	17
5	A single-cell morpho-transcriptomic map of brassinosteroid action in the <i>Arabidopsis</i> root. <i>Molecular Plant</i> , 2021, 14, 1985-1999.	8.3	40
6	Plasma Membrane Domain Patterning and Self-Reinforcing Polarity in <i>Arabidopsis</i> . <i>Developmental Cell</i> , 2020, 52, 223-235.e5.	7.0	67
7	Local auxin competition explains fragmented differentiation patterns. <i>Nature Communications</i> , 2020, 11, 2965.	12.8	19
8	BAM1/2 receptor kinase signaling drives CLE peptide-mediated formative cell divisions in <i>Arabidopsis</i> roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32750-32756.	7.1	38
9	Plant Biology: Brassinosteroids and the Intracellular Auxin Shuttle. <i>Current Biology</i> , 2020, 30, R407-R409.	3.9	5
10	<i>Arabidopsis</i> Flippases Cooperate with ARF GTPase Exchange Factors to Regulate the Trafficking and Polarity of PIN Auxin Transporters. <i>Plant Cell</i> , 2020, 32, 1644-1664.	6.6	49
11	Local and Systemic Effects of Brassinosteroid Perception in Developing Phloem. <i>Current Biology</i> , 2020, 30, 1626-1638.e3.	3.9	34
12	The transcription and export complex THO/TREX contributes to transcription termination in plants. <i>PLoS Genetics</i> , 2020, 16, e1008732.	3.5	11
13	Peptide Signaling Pathways in Vascular Differentiation. <i>Plant Physiology</i> , 2020, 182, 1636-1644.	4.8	30
14	A Cellular Insulator against CLE45 Peptide Signaling. <i>Current Biology</i> , 2019, 29, 2501-2508.e3.	3.9	49
15	Conditional effects of the epigenetic regulator JUMONJI 14 in <i>Arabidopsis</i> root growth. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	9
16	Phloem function and development – biophysics meets genetics. <i>Current Opinion in Plant Biology</i> , 2018, 43, 22-28.	7.1	51
17	CLERK is a novel receptor kinase required for sensing of root-active CLE peptides in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	61
18	Broad spectrum developmental role of <i>Brachypodium</i> <i>AUX1</i> . <i>New Phytologist</i> , 2018, 219, 1216-1223.	7.3	18

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19	Brassinosteroid signaling directs formative cell divisions and protophloem differentiation in <i>Arabidopsis</i> root meristems. <i>Development (Cambridge)</i> , 2017, 144, 272-280.	2.5	95
20	Perception of root active CLE peptides requires CORYNE function in the phloem vasculature. <i>EMBO Reports</i> , 2017, 18, 1367-1381.	4.5	80
21	BEN3/BIG2 ARF GEF is Involved in Brefeldin A-Sensitive Trafficking at the trans-Golgi Network/Early Endosome in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2017, 58, 1801-1811.	3.1	27
22	Editorial overview: Developmental mechanisms, patterning and evolution: Developmental patterning: from stochasticity to plasticity. <i>Current Opinion in Genetics and Development</i> , 2017, 45, iv-v.	3.3	0
23	Low number of fixed somatic mutations in a long-lived oak tree. <i>Nature Plants</i> , 2017, 3, 926-929.	9.3	120
24	Phosphosite charge rather than shootward localization determines OCTOPUS activity in root protophloem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5721-E5730.	7.1	42
25	BIG BROTHER Uncouples Cell Proliferation from Elongation in the <i>Arabidopsis</i> Primary Root. <i>Plant and Cell Physiology</i> , 2017, 58, 1519-1527.	3.1	11
26	The <i>Arabidopsis</i> leucine-rich repeat receptor kinase MIK2/LRR-KISS connects cell wall integrity sensing, root growth and response to abiotic and biotic stresses. <i>PLoS Genetics</i> , 2017, 13, e1006832.	3.5	187
27	The Effects of High Steady State Auxin Levels on Root Cell Elongation in <i>Brachypodium</i> . <i>Plant Cell</i> , 2016, 28, 1009-1024.	6.6	65
28	<i>Arabidopsis</i> MAKR5 is a positive effector of BAM3-dependent CLE45 signaling. <i>EMBO Reports</i> , 2016, 17, 1145-1154.	4.5	55
29	Polarly localized kinase SGN1 is required for Casparian strip integrity and positioning. <i>Nature Plants</i> , 2016, 2, 16113.	9.3	105
30	CLAVATA 1-type receptors in plant development. <i>Journal of Experimental Botany</i> , 2016, 67, 4827-4833.	4.8	60
31	Secondary growth of the <i>Arabidopsis</i> hypocotyl vascular development in dimensions. <i>Current Opinion in Plant Biology</i> , 2016, 29, 9-15.	7.1	20
32	Antagonistic peptide technology for functional dissection of CLE peptides revisited. <i>Journal of Experimental Botany</i> , 2015, 66, 5367-5374.	4.8	27
33	Primary root protophloem differentiation requires balanced phosphatidylinositol-4,5-biphosphate levels and systemically affects root branching. <i>Development (Cambridge)</i> , 2015, 142, 1437-46.	2.5	99
34	The co-chaperone p23 controls root development through the modulation of auxin distribution in the <i>Arabidopsis</i> root meristem. <i>Journal of Experimental Botany</i> , 2015, 66, 5113-5122.	4.8	20
35	The IBO germination quantitative trait locus encodes a phosphatase 2C-related variant with a nonsynonymous amino acid change that interferes with abscisic acid signaling. <i>New Phytologist</i> , 2015, 205, 1076-1082.	7.3	32
36	Small but thick enough: The <i>Arabidopsis</i> hypocotyl as a model to study secondary growth. <i>Physiologia Plantarum</i> , 2014, 151, 164-171.	5.2	31

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37	Molecular genetic framework for protophloem formation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11551-11556.	7.1	159
38	Auxin and Its Henchmen: Hormonal Cross Talk in Root Growth and Development. , 2014, , 245-264.		5
39	Strigolactone Promotes Degradation of DWARF14, an $\hat{I}\pm/\hat{I}^2$ Hydrolase Essential for Strigolactone Signaling in <i>Arabidopsis</i> . Plant Cell, 2014, 26, 1134-1150.	6.6	196
40	Automated quantitative histology reveals vascular morphodynamics during <i>Arabidopsis</i> hypocotyl secondary growth. ELife, 2014, 3, e01567.	6.0	37
41	Small Ubiquitin-Like Modifier Conjugating Enzyme with Active Site Mutation Acts as Dominant Negative Inhibitor of SUMO Conjugation in <i>Arabidopsis</i> . Journal of Integrative Plant Biology, 2013, 55, 75-82.	8.5	16
42	Expression Quantitative Trait Locus Mapping across Water Availability Environments Reveals Contrasting Associations with Genomic Features in <i>Arabidopsis</i> . Plant Cell, 2013, 25, 3266-3279.	6.6	73
43	Disturbed Local Auxin Homeostasis Enhances Cellular Anisotropy and Reveals Alternative Wiring of Auxin-ethylene Crosstalk in <i>Brachypodium distachyon</i> Seminal Roots. PLoS Genetics, 2013, 9, e1003564.	3.5	59
44	Suppression of <i>Arabidopsis</i> protophloem differentiation and root meristem growth by CLE45 requires the receptor-like kinase BAM3. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7074-7079.	7.1	174
45	Context-Dependent Dual Role of SKI8 Homologs in mRNA Synthesis and Turnover. PLoS Genetics, 2012, 8, e1002652.	3.5	28
46	Natural genetic variation of root system architecture from <i>Arabidopsis</i> to <i>Brachypodium</i> : towards adaptive value. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 1552-1558.	4.0	54
47	Advances in identifying and exploiting natural genetic variation. , 2012, , 195-205.		0
48	Natural <i>Arabidopsis</i> brx Loss-of-Function Alleles Confer Root Adaptation to Acidic Soil. Current Biology, 2012, 22, 1962-1968.	3.9	66
49	Hormone Signalling Crosstalk in Plant Growth Regulation. Current Biology, 2011, 21, R365-R373.	3.9	408
50	Positional Information by Differential Endocytosis Splits Auxin Response to Drive <i>Arabidopsis</i> Root Meristem Growth. Current Biology, 2011, 21, 1918-1923.	3.9	52
51	A direct stimulatory role of mobile gibberellin in <i>Arabidopsis</i> hypocotyl xylem expansion. BMC Proceedings, 2011, 5, .	1.6	0
52	A qualitative continuous model of cellular auxin and brassinosteroid signaling and their crosstalk. Bioinformatics, 2011, 27, 1404-1412.	4.1	44
53	Mobile Gibberellin Directly Stimulates <i>Arabidopsis</i> Hypocotyl Xylem Expansion. Plant Cell, 2011, 23, 1322-1336.	6.6	196
54	<i>BRX</i> promotes <i>Arabidopsis</i> shoot growth. New Phytologist, 2010, 188, 23-29.	7.3	34

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55	A hyperactive quantitative trait locus allele of <i>Arabidopsis</i> BRX contributes to natural variation in root growth vigor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8475-8480.	7.1	33
56	Spatio-temporal sequence of cross-regulatory events in root meristem growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22734-22739.	7.1	116
57	Substantial deletion overlap among divergent <i>Arabidopsis</i> genomes revealed by intersection of short reads and tiling arrays. <i>Genome Biology</i> , 2010, 11, R4.	9.6	31
58	The case for resequencing studies of <i>Arabidopsis thaliana</i> accessions: mining the dark matter of natural genetic variation. <i>F1000 Biology Reports</i> , 2010, 2, 85.	4.0	6
59	Comprehensive analysis of <i>Arabidopsis</i> expression level polymorphisms with simple inheritance. <i>Molecular Systems Biology</i> , 2009, 5, 242.	7.2	21
60	The Short-Rooted Phenotype of the <i>brevis radix</i> Mutant Partly Reflects Root Abscisic Acid Hypersensitivity. <i>Plant Physiology</i> , 2009, 149, 1917-1928.	4.8	63
61	Dynamic, auxin-responsive plasma membrane-to-nucleus movement of <i>Arabidopsis</i> BRX. <i>Development (Cambridge)</i> , 2009, 136, 2059-2067.	2.5	92
62	The Roundtable on Sustainable Biofuels: plant scientist input needed. <i>Trends in Plant Science</i> , 2009, 14, 409-412.	8.8	8
63	Intraspecific competition reveals conditional fitness effects of single gene polymorphism at the <i>Arabidopsis</i> root growth regulator BRX. <i>New Phytologist</i> , 2008, 180, 71-80.	7.3	22
64	Flowering as a Condition for Xylem Expansion in <i>Arabidopsis</i> Hypocotyl and Root. <i>Current Biology</i> , 2008, 18, 458-463.	3.9	102
65	The topless plant developmental phenotype explained!. <i>Genome Biology</i> , 2008, 9, 219.	9.6	6
66	Natural Genetic Variation in <i>Arabidopsis</i> : Tools, Traits and Prospects for Evolutionary Ecology. <i>Annals of Botany</i> , 2007, 99, 1043-1054.	2.9	83
67	Transcriptional auxin-brassinosteroid crosstalk: Who's talking?. <i>BioEssays</i> , 2007, 29, 1115-1123.	2.5	71
68	Phytohormone collaboration: zooming in on auxin-brassinosteroid interactions. <i>Trends in Cell Biology</i> , 2007, 17, 485-492.	7.9	96
69	Hidden Branches: Developments in Root System Architecture. <i>Annual Review of Plant Biology</i> , 2007, 58, 93-113.	18.7	474
70	Unequal genetic redundancies in <i>Arabidopsis</i> – a neglected phenomenon?. <i>Trends in Plant Science</i> , 2006, 11, 492-498.	8.8	103
71	BRX mediates feedback between brassinosteroid levels and auxin signalling in root growth. <i>Nature</i> , 2006, 443, 458-461.	27.8	256
72	Root development – branching into novel spheres. <i>Current Opinion in Plant Biology</i> , 2006, 9, 66-71.	7.1	29

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73	Opposite Root Growth Phenotypes of <i>hy5</i> versus <i>hy5 hyh</i> Mutants Correlate with Increased Constitutive Auxin Signaling. <i>PLoS Genetics</i> , 2006, 2, e202.	3.5	186
74	Characterization of the Plant-Specific <i>BREVIS RADIX</i> Gene Family Reveals Limited Genetic Redundancy Despite High Sequence Conservation. <i>Plant Physiology</i> , 2006, 140, 1306-1316.	4.8	60
75	Overlapping and non-redundant functions of the <i>Arabidopsis</i> auxin response factors <i>MONOPTEROS</i> and <i>NONPHOTOTROPIC HYPOCOTYL 4</i> . <i>Development (Cambridge)</i> , 2004, 131, 1089-1100.	2.5	302
76	Natural genetic variation in <i>Arabidopsis</i> identifies <i>BREVIS RADIX</i> , a novel regulator of cell proliferation and elongation in the root. <i>Genes and Development</i> , 2004, 18, 700-714.	5.9	217
77	The <i>Arabidopsis</i> transcription factor <i>HY5</i> integrates light and hormone signaling pathways. <i>Plant Journal</i> , 2004, 38, 332-347.	5.7	255
78	Gibberellin Signaling: GRASs Growing Roots Dispatch. <i>Current Biology</i> , 2003, 13, R366-R367.	3.9	8
79	Evaluation and classification of RING-finger domains encoded by the <i>Arabidopsis</i> genome. <i>Genome Biology</i> , 2002, 3, research0016.1.	9.6	137
80	Biochemical evidence for ubiquitin ligase activity of the <i>Arabidopsis</i> COP1 interacting protein 8 (CIP8). <i>Plant Journal</i> , 2002, 30, 385-394.	5.7	101
81	Identification of a structural motif that confers specific interaction with the WD40 repeat domain of <i>Arabidopsis</i> COP1. <i>EMBO Journal</i> , 2001, 20, 118-127.	7.8	205
82	Targeted destabilization of <i>HY5</i> during light-regulated development of <i>Arabidopsis</i> . <i>Nature</i> , 2000, 405, 462-466.	27.8	1,227
83	Vascular continuity, cell axialisation and auxin. <i>Plant Growth Regulation</i> , 2000, 32, 173-185.	3.4	17
84	The Cell Biology of the COP/DET/FUS Proteins. Regulating Proteolysis in Photomorphogenesis and Beyond?. <i>Plant Physiology</i> , 2000, 124, 1548-1557.	4.8	88
85	Vascular continuity and auxin signals. <i>Trends in Plant Science</i> , 2000, 5, 387-393.	8.8	201
86	The <i>Arabidopsis</i> gene <i>MONOPTEROS</i> encodes a transcription factor mediating embryo axis formation and vascular development. <i>EMBO Journal</i> , 1998, 17, 1405-1411.	7.8	938
87	Genetic and contig map of a 2200-kb region encompassing 5.5 cM on chromosome 1 of <i>Arabidopsis thaliana</i> . <i>Genome</i> , 1996, 39, 1086-1092.	2.0	10
88	Mutational analysis of root initiation in the <i>Arabidopsis</i> embryo. <i>Plant and Soil</i> , 1996, 187, 1-9.	3.7	13
89	Genetic similarity among <i>Arabidopsis thaliana</i> ecotypes estimated by DNA sequence comparison. <i>Plant Molecular Biology</i> , 1996, 32, 915-922.	3.9	29
90	Studies on the role of the <i>Arabidopsis</i> gene <i>MONOPTEROS</i> in vascular development and plant cell axialization. <i>Planta</i> , 1996, 200, 229-37.	3.2	434