Christian Luschnig

List of Publications by Year
in descending order

64 papers	9,285 citations	101543 36 h-index	118850 62 g-index
69 all docs	69 docs citations	69 times ranked	7908 citing authors

#	Article	IF	Citations
1	PIN Proteins Perform a Rate-Limiting Function in Cellular Auxin Efflux. Science, 2006, 312, 914-918.	12.6	805
2	EIR1, a root-specific protein involved in auxin transport, is required for gravitropism inArabidopsisâ€‰thaliana. Genes and Development, 1998, 12, 2175-2187.	5.9	755
3	Antagonistic Regulation of PIN Phosphorylation by PP2A and PINOID Directs Auxin Flux. Cell, 2007, 130, 1044-1056.	28.9	590
4	Functional redundancy of PIN proteins is accompanied by auxin-dependent cross-regulation of PIN expression. Development (Cambridge), 2005, 132, 4521-4531.	2.5	574
5	Intracellular trafficking and proteolysis of the Arabidopsis auxin-efflux facilitator PIN2 are involved in root gravitropism. Nature Cell Biology, 2006, 8, 249-256.	10.3	557
6	Detoxification of the Fusarium Mycotoxin Deoxynivalenol by a UDP-glucosyltransferase from Arabidopsis thaliana. Journal of Biological Chemistry, 2003, 278, 47905-47914.	3.4	472
7	Subcellular homeostasis of phytohormone auxin is mediated by the ER-localized PIN5 transporter. Nature, 2009, 459, 1136-1140.	27.8	462
8	The Arabidopsis MAX Pathway Controls Shoot Branching by Regulating Auxin Transport. Current Biology, 2006, 16, 553-563.	3.9	424
9	Canalization of auxin flow by Aux/IAA-ARF-dependent feedback regulation of PIN polarity. Genes and Development, 2006, 20, 2902-2911.	5.9	395
10	Differential degradation of PIN2 auxin efflux carrier by retromer-dependent vacuolar targeting. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17812-17817.	7.1	389
11	ABP1 Mediates Auxin Inhibition of Clathrin-Dependent Endocytosis in Arabidopsis. Cell, 2010, 143, 111-121.	28.9	386
12	Bimodular auxin response controls organogenesis in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2705-2710.	7.1	271
13	Transgenerational Inheritance and Resetting of Stress-Induced Loss of Epigenetic Gene Silencing in Arabidopsis. Molecular Plant, 2010, 3, 594-602.	8.3	253
14	Transgenerational epigenetic inheritance in plants. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2011, 1809, 459-468.	1.9	250
15	Recycling, clustering, and endocytosis jointly maintain PIN auxin carrier polarity at the plasma membrane. Molecular Systems Biology, 2011, 7, 540.	7.2	232
16	GOLVEN Secretory Peptides Regulate Auxin Carrier Turnover during Plant Gravitropic Responses. Developmental Cell, 2012, 22, 678-685.	7.0	182
17	Lysine ⁶³ -linked ubiquitylation of PIN2 auxin carrier protein governs hormonally controlled adaptation of Arabidopsis root growth. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8322-8327.	7.1	175
18	Transgenerational Stress Memory Is Not a General Response in Arabidopsis. PLoS ONE, 2009, 4, e5202.	2.5	142

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19	Maximum yields of microsomal-type membranes from small amounts of plant material without requiring ultracentrifugation. Analytical Biochemistry, 2010, 401, 217-227.	2.4	142
20	The dynamics of plant plasma membrane proteins: PINs and beyond. Development (Cambridge), 2014, 141, 2924-2938.	2.5	128
21	Post-transcriptional control of the Arabidopsis auxin efflux carrier EIR1 requires AXR1. Current Biology, 2000, 10, 1595-1598.	3.9	116
22	Transcriptome analysis of bud burst in sessile oak (Quercus petraea). New Phytologist, 2006, 170, 723-738.	7.3	116
23	CESTA, a positive regulator of brassinosteroid biosynthesis. EMBO Journal, 2011, 30, 1149-1161.	7.8	115
24	Putative Arabidopsis Transcriptional Adaptor Protein (PROPORZ1) is required to modulate histone acetylation in response to auxin. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10308-10313.	7.1	113
25	Arabidopsis TOL Proteins Act as Gatekeepers for Vacuolar Sorting of PIN2 Plasma Membrane Protein. Current Biology, 2013, 23, 2500-2505.	3.9	113
26	PROPORZ1, a Putative Arabidopsis Transcriptional Adaptor Protein, Mediates Auxin and Cytokinin Signals in the Control of Cell Proliferation. Current Biology, 2003, 13, 837-842.	3.9	100
27	The TORNADO1 and TORNADO2 Genes Function in Several Patterning Processes during Early Leaf Development in Arabidopsis thaliana. Plant Cell, 2006, 18, 852-866.	6.6	96
28	Auxin signalling in growth: SchrÃ¶dingerâ€™s cat out of the bag. Current Opinion in Plant Biology, 2020, 53, 43-49.	7.1	81
29	Brassinosteroid signaling delimits root gravitropism via sorting of the Arabidopsis PIN2 auxin transporter. Nature Communications, 2019, 10, 5516.	12.8	74
30	Pho-view of Auxin: Reversible Protein Phosphorylation in Auxin Biosynthesis, Transport and Signaling. Molecular Plant, 2021, 14, 151-165.	8.3	56
31	Strigolactones inhibit auxin feedback on PIN-dependent auxin transport canalization. Nature Communications, 2020, 11, 3508.	12.8	51
32	Posttranslational modification and trafficking of PIN auxin efflux carriers. Mechanisms of Development, 2013, 130, 82-94.	1.7	50
33	TOLs Function as Ubiquitin Receptors in the Early Steps of the ESCRT Pathway in Higher Plants. Molecular Plant, 2020, 13, 717-731.	8.3	45
34	Arabidopsis thaliana RAD6 homolog AtUBC2 complements UV sensitivity, but not N-end rule degradation deficiency, of Saccharomyces cerevisiae rad6 mutants. Current Genetics, 1997, 32, 309-314.	1.7	43
35	Auxin transport: ABC proteins join the club. Trends in Plant Science, 2002, 7, 329-332.	8.8	43
36	Regulating the regulator: the control of auxin transport. BioEssays, 2005, 27, 1246-1255.	2.5	43

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37	Apicalâ€“basal polarity: why plant cells don't standon their heads. Trends in Plant Science, 2006, 11, 12-14.	8.8	37
38	Plasma Membrane Protein Ubiquitylation and Degradation as Determinants of Positional Growth in Plants. Journal of Integrative Plant Biology, 2013, 55, 809-823.	8.5	31
39	Dynamics in PIN2 auxin carrier ubiquitylation in gravity-responding Arabidopsis roots. Plant Signaling and Behavior, 2012, 7, 1271-1273.	2.4	29
40	Evolutionary Conserved Cysteines Function as cis-Acting Regulators of Arabidopsis PIN-FORMED 2 Distribution. International Journal of Molecular Sciences, 2017, 18, 2274.	4.1	28
41	Meta-regulation of Arabidopsis Auxin Responses Depends on tRNA Maturation. Cell Reports, 2015, 11, 516-526.	6.4	27
42	Ubiquitin Lys 63 chains â€“ second-most abundant, but poorly understood in plants. Frontiers in Plant Science, 2014, 5, 15.	3.6	26
43	Auxin and Root Gravitropism: Addressing Basic Cellular Processes by Exploiting a Defined Growth Response. International Journal of Molecular Sciences, 2021, 22, 2749.	4.1	26
44	Auxin transport: Why plants like to think BIG. Current Biology, 2001, 11, R831-R833.	3.9	25
45	Immunocytochemical localisation of actin and profilin in the generative cell of angiosperm pollen: TEM studies on high-pressure frozen and freeze-substitutedLedebouria socialis Roth (Hyacinthaceae). Histochemistry and Cell Biology, 1995, 104, 443-451.	1.7	22
46	MODULATOR OF PIN genes control steadyâ€state levels of Arabidopsis PIN proteins. Plant Journal, 2007, 51, 537-550.	5.7	22
47	The Gag Homologue of Retrotransposon Ty1 Assembles into Spherical Particles in Escherichia coli. FEBS Journal, 1995, 228, 739-744.	0.2	18
48	Expression analysis of Arabidopsis XH/XS-domain proteins indicates overlapping and distinct functions for members of this gene family. Journal of Experimental Botany, 2014, 65, 1217-1227.	4.8	18
49	Tricho- and atrichoblast cell files show distinct PIN2 auxin efflux carrier exploitations and are jointly required for defined auxin-dependent root organ growth. Journal of Experimental Botany, 2015, 66, 5103-5112.	4.8	17
50	PIN FORMED 2 Modulates the Transport of Arsenite in Arabidopsis thaliana. Plant Communications, 2020, 1, 100009.	7.7	17
51	The far side of auxin signaling: fundamental cellular activities and their contribution to a defined growth response in plants. Protoplasma, 2014, 251, 731-746.	2.1	16
52	RNA Packaging of Yeast Retrotransposon Ty1 in the Heterologous Host, Escherichia coli. Biological Chemistry, 1997, 378, 39-46.	2.5	12
53	Intraspecific length heterogeneity of the rDNA-IGR in Arabidopsis thaliana due to homologous recombination. Plant Molecular Biology, 1993, 22, 543-545.	3.9	11
54	Auxin and Tropisms. , 2014, , 361-387.		9

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55	DIAGEOTROPICA: news from the auxin swamp. Trends in Plant Science, 2015, 20, 328-329.	8.8	9
56	Posttranslational Modifications of Plasma Membrane Proteins and Their Implications for Plant Growth and Development. Plant Cell Monographs, 2011, , 109-128.	0.4	9
57	Two pieces of the auxin puzzle. Trends in Plant Science, 1999, 4, 162-164.	8.8	8
58	Cell Polarity: PIN It Down!. Current Biology, 2011, 21, R197-R199.	3.9	6
59	Ubiquitylation-Mediated Control of Polar Auxin Transport: Analysis of Arabidopsis PIN2 Auxin Transport Protein. Methods in Molecular Biology, 2014, 1209, 233-249.	0.9	4
60	Endosomally Localized RGLG-Type E3 RING-Finger Ligases Modulate Sorting of Ubiquitylation-Mimic PIN2. International Journal of Molecular Sciences, 2022, 23, 6767.	4.1	3
61	Nucleotide sequence of trnI(CAU)and rpl23 fromArabidopsis thalianachloroplast genome. Nucleic Acids Research, 1992, 20, 3511-3511.	14.5	2
62	Plants on (brassino)steroids. Nature Plants, 2021, 7, 548-549.	9.3	2
63	The dynamic plant cell. Current Opinion in Plant Biology, 2010, 13, 621-622.	7.1	0
64	Modulation of the endosomal pathway for optimized response to drought stress: from model to crop plants. Bodenkultur, 2021, 72, 57-72.	0.2	0