

Karin Ljung

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.

96 papers	5,405 citations	43 h-index	73 g-index
113 ext. papers	7,003 ext. citations	9.1 avg, IF	5.95 L-index

#	Paper	IF	Citations
96	Auxin boosts energy generation pathways to fuel pollen maturation in barley.. <i>Current Biology</i> , 2022 ,	6.3	1
95	Potassium transporter TRH1/KUP4 contributes to distinct auxin-mediated root system architecture responses. <i>Plant Physiology</i> , 2021 ,	6.6	3
94	The chemical compound 5-Heatin stimulates hypocotyl elongation and interferes with the Arabidopsis NIT1-subfamily of nitrilases. <i>Plant Journal</i> , 2021 , 106, 1523-1540	6.9	1
93	Fluorescence activated cell sorting-A selective tool for plant cell isolation and analysis. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2021 ,	4.6	3
92	Alterations in hormonal signals spatially coordinate distinct responses to DNA double-strand breaks in roots. <i>Science Advances</i> , 2021 , 7,	14.3	1
91	Studies of moss reproductive development indicate that auxin biosynthesis in apical stem cells may constitute an ancestral function for focal growth control. <i>New Phytologist</i> , 2021 , 229, 845-860	9.8	8
90	Auxin Metabolism in Plants. <i>Cold Spring Harbor Perspectives in Biology</i> , 2021 , 13,	10.2	30
89	Function of the pseudo phosphotransfer proteins has diverged between rice and Arabidopsis. <i>Plant Journal</i> , 2021 , 106, 159-173	6.9	2
88	Broadening the roles of UDP-glycosyltransferases in auxin homeostasis and plant development. <i>New Phytologist</i> , 2021 , 232, 642-654	9.8	0
87	Plant roots sense soil compaction through restricted ethylene diffusion. <i>Science</i> , 2021 , 371, 276-280	33.3	46
86	HY5 and phytochrome activity modulate shoot-to-root coordination during thermomorphogenesis in. <i>Development (Cambridge)</i> , 2020 , 147,	6.6	11
85	The CEP5 Peptide Promotes Abiotic Stress Tolerance, As Revealed by Quantitative Proteomics, and Attenuates the AUX/IAA Equilibrium in. <i>Molecular and Cellular Proteomics</i> , 2020 , 19, 1248-1262	7.6	12
84	Nyctinastic thallus movement in the liverwort <i>Marchantia polymorpha</i> is regulated by a circadian clock. <i>Scientific Reports</i> , 2020 , 10, 8658	4.9	5
83	Natural Variation in Adventitious Rooting in the Alpine Perennial. <i>Plants</i> , 2020 , 9,	4.5	5
82	Vernalization shapes shoot architecture and ensures the maintenance of dormant buds in the perennial <i>Arabis alpina</i> . <i>New Phytologist</i> , 2020 , 227, 99-115	9.8	16
81	Conifers exhibit a characteristic inactivation of auxin to maintain tissue homeostasis. <i>New Phytologist</i> , 2020 , 226, 1753-1765	9.8	11
80	Auxin export from proximal fruits drives arrest in temporally competent inflorescences. <i>Nature Plants</i> , 2020 , 6, 699-707	11.5	13

79	A WOX/Auxin Biosynthesis Module Controls Growth to Shape Leaf Form. <i>Current Biology</i> , 2020 , 30, 4857-4868.e6	6.3	1
78	HEARTBREAK Controls Post-translational Modification of INDEHISCENT to Regulate Fruit Morphology in <i>Capsella</i> . <i>Current Biology</i> , 2020 , 30, 3880-3888.e5	6.3	1
77	Cell-surface receptors enable perception of extracellular cytokinins. <i>Nature Communications</i> , 2020 , 11, 4284	17.4	24
76	Reaction Wood Anatomical Traits and Hormonal Profiles in Poplar Bent Stem and Root. <i>Frontiers in Plant Science</i> , 2020 , 11, 590985	6.2	3
75	Implantable Bioelectronics: Implantable Organic Electronic Ion Pump Enables ABA Hormone Delivery for Control of Stomata in an Intact Tobacco Plant (Small 43/2019). <i>Small</i> , 2019 , 15, 1970233	11	1
74	A role for the auxin precursor anthranilic acid in root gravitropism via regulation of PIN-FORMED protein polarity and relocalisation in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2019 , 223, 1420-1432	9.8	6
73	Surveillance of cell wall diffusion barrier integrity modulates water and solute transport in plants. <i>Scientific Reports</i> , 2019 , 9, 4227	4.9	40
72	Regulatory Diversification of INDEHISCENT in the <i>Capsella</i> Genus Directs Variation in Fruit Morphology. <i>Current Biology</i> , 2019 , 29, 1038-1046.e4	6.3	8
71	Selective auxin agonists induce specific AUX/IAA protein degradation to modulate plant development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6463-6472	11.5	12
70	Control of root meristem establishment in conifers. <i>Physiologia Plantarum</i> , 2019 , 165, 81-89	4.6	3
69	Implantable Organic Electronic Ion Pump Enables ABA Hormone Delivery for Control of Stomata in an Intact Tobacco Plant. <i>Small</i> , 2019 , 15, e1902189	11	21
68	PIN-driven auxin transport emerged early in streptophyte evolution. <i>Nature Plants</i> , 2019 , 5, 1114-1119	11.5	19
67	A MYC2/MYC3/MYC4-dependent transcription factor network regulates water spray-responsive gene expression and jasmonate levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23345-23356	11.5	38
66	Epigenetic Regulation of Auxin Homeostasis. <i>Biomolecules</i> , 2019 , 9,	5.9	12
65	Autoregulation of RCO by Low-Affinity Binding Modulates Cytokinin Action and Shapes Leaf Diversity. <i>Current Biology</i> , 2019 , 29, 4183-4192.e6	6.3	10
64	HISTONE DEACETYLASE 9 stimulates auxin-dependent thermomorphogenesis in by mediating H2A.Z depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25343-25354	11.5	48
63	A bacterial assay for rapid screening of IAA catabolic enzymes. <i>Plant Methods</i> , 2019 , 15, 126	5.8	3
62	Tissue-specific hormone profiles from woody poplar roots under bending stress. <i>Physiologia Plantarum</i> , 2019 , 165, 101-113	4.6	6

61	Auxin Function in the Brown Alga. <i>Plant Physiology</i> , 2019 , 179, 280-299	6.6	11
60	Ultra-rapid auxin metabolite profiling for high-throughput mutant screening in Arabidopsis. <i>Journal of Experimental Botany</i> , 2018 , 69, 2569-2579	7	21
59	Circadian clock components control daily growth activities by modulating cytokinin levels and cell division-associated gene expression in Populus trees. <i>Plant, Cell and Environment</i> , 2018 , 41, 1468-1482	8.4	18
58	A mechanistic framework for auxin dependent Arabidopsis root hair elongation to low external phosphate. <i>Nature Communications</i> , 2018 , 9, 1409	17.4	79
57	Rice auxin influx carrier OsAUX1 facilitates root hair elongation in response to low external phosphate. <i>Nature Communications</i> , 2018 , 9, 1408	17.4	61
56	Transcriptional stimulation of rate-limiting components of the autophagic pathway improves plant fitness. <i>Journal of Experimental Botany</i> , 2018 , 69, 1415-1432	7	73
55	Plant Hormonomics: Multiple Phytohormone Profiling by Targeted Metabolomics. <i>Plant Physiology</i> , 2018 , 177, 476-489	6.6	125
54	Broad spectrum developmental role of Brachypodium AUX1. <i>New Phytologist</i> , 2018 , 219, 1216-1223	9.8	14
53	Combined transcriptome and translome analyses reveal a role for tryptophan-dependent auxin biosynthesis in the control of DOG1-dependent seed dormancy. <i>New Phytologist</i> , 2018 , 217, 1077-1085	9.8	17
52	Zooming In on Plant Hormone Analysis: Tissue- and Cell-Specific Approaches. <i>Annual Review of Plant Biology</i> , 2017 , 68, 323-348	30.7	51
51	Regulating plant physiology with organic electronics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4597-4602	11.5	39
50	Altered expression of maize PLASTOCHRON1 enhances biomass and seed yield by extending cell division duration. <i>Nature Communications</i> , 2017 , 8, 14752	17.4	47
49	Contrasting patterns of cytokinins between years in senescing aspen leaves. <i>Plant, Cell and Environment</i> , 2017 , 40, 622-634	8.4	11
48	The Arabidopsis bZIP11 transcription factor links low-energy signalling to auxin-mediated control of primary root growth. <i>PLoS Genetics</i> , 2017 , 13, e1006607	6	64
47	Auxin minimum triggers the developmental switch from cell division to cell differentiation in the root. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E7641-E7649	11.5	136
46	Type B Response Regulators Act As Central Integrators in Transcriptional Control of the Auxin Biosynthesis Enzyme TAA1. <i>Plant Physiology</i> , 2017 , 175, 1438-1454	6.6	26
45	Brassinosteroid signaling-dependent root responses to prolonged elevated ambient temperature. <i>Nature Communications</i> , 2017 , 8, 309	17.4	66
44	Enhanced Secondary- and Hormone Metabolism in Leaves of Arbuscular Mycorrhizal. <i>Plant Physiology</i> , 2017 , 175, 392-411	6.6	43

43	SHADE AVOIDANCE 4 Is Required for Proper Auxin Distribution in the Hypocotyl. <i>Plant Physiology</i> , 2017 , 173, 788-800	6.6	15
42	High-Resolution Cell-Type Specific Analysis of Cytokinins in Sorted Root Cell Populations of <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2017 , 1497, 231-248	1.4	2
41	Dynamic regulation of auxin oxidase and conjugating enzymes AtDAO1 and GH3 modulates auxin homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11022-7	11.5	80
40	Quantitative Auxin Metabolite Profiling Using Stable Isotope Dilution UHPLC-MS/MS. <i>Current Protocols in Plant Biology</i> , 2016 , 1, 419-430	2.8	4
39	Cryptochromes Interact Directly with PIFs to Control Plant Growth in Limiting Blue Light. <i>Cell</i> , 2016 , 164, 233-245	56.2	295
38	Connective Auxin Transport in the Shoot Facilitates Communication between Shoot Apices. <i>PLoS Biology</i> , 2016 , 14, e1002446	9.7	95
37	The epidermis coordinates auxin-induced stem growth in response to shade. <i>Genes and Development</i> , 2016 , 30, 1529-41	12.6	68
36	The PLETHORA Gene Regulatory Network Guides Growth and Cell Differentiation in Arabidopsis Roots. <i>Plant Cell</i> , 2016 , 28, 2937-2951	11.6	81
35	The Effects of High Steady State Auxin Levels on Root Cell Elongation in Brachypodium. <i>Plant Cell</i> , 2016 , 28, 1009-24	11.6	48
34	Dioxygenase-encoding AtDAO1 gene controls IAA oxidation and homeostasis in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11016-21	11.5	93
33	Local auxin metabolism regulates environment-induced hypocotyl elongation. <i>Nature Plants</i> , 2016 , 2, 16025	11.5	74
32	Cell-Type-Specific Cytokinin Distribution within the Arabidopsis Primary Root Apex. <i>Plant Cell</i> , 2015 , 27, 1955-67	11.6	102
31	The circadian clock rephases during lateral root organ initiation in Arabidopsis thaliana. <i>Nature Communications</i> , 2015 , 6, 7641	17.4	83
30	Development of the Poplar-Laccaria bicolor Ectomycorrhiza Modifies Root Auxin Metabolism, Signaling, and Response. <i>Plant Physiology</i> , 2015 , 169, 890-902	6.6	53
29	Cell-type specific metabolic profiling of protoplasts as a tool for plant systems biology. <i>Metabolomics</i> , 2015 , 11, 1679-1689	4.7	19
28	Modelling of Arabidopsis LAX3 expression suggests auxin homeostasis. <i>Journal of Theoretical Biology</i> , 2015 , 366, 57-70	2.3	11
27	Contrasting growth responses in lamina and petiole during neighbor detection depend on differential auxin responsiveness rather than different auxin levels. <i>New Phytologist</i> , 2015 , 208, 198-209	9.8	66
26	New mechanistic links between sugar and hormone signalling networks. <i>Current Opinion in Plant Biology</i> , 2015 , 25, 130-7	9.9	124

25	An intrinsic microRNA timer regulates progressive decline in shoot regenerative capacity in plants. <i>Plant Cell</i> , 2015 , 27, 349-60	11.6	87
24	Three ancient hormonal cues co-ordinate shoot branching in a moss. <i>ELife</i> , 2015 , 4,	8.9	63
23	Directional auxin transport mechanisms in early diverging land plants. <i>Current Biology</i> , 2014 , 24, 2786-916.3	79	
22	Auxin and strigolactone signaling are required for modulation of Arabidopsis shoot branching by nitrogen supply. <i>Plant Physiology</i> , 2014 , 166, 384-95	6.6	73
21	Cotyledon-Generated Auxin Is Required for Shade-Induced Hypocotyl Growth in Brassica rapa. <i>Plant Physiology</i> , 2014 , 165, 1285-1301	6.6	85
20	ADP1 affects plant architecture by regulating local auxin biosynthesis. <i>PLoS Genetics</i> , 2014 , 10, e1003954	38	
19	Root gravitropism and root hair development constitute coupled developmental responses regulated by auxin homeostasis in the Arabidopsis root apex. <i>New Phytologist</i> , 2013 , 197, 1130-1141	9.8	98
18	Auxin metabolism and homeostasis during plant development. <i>Development (Cambridge)</i> , 2013 , 140, 943-50	6.6	362
17	The AFB4 auxin receptor is a negative regulator of auxin signaling in seedlings. <i>Current Biology</i> , 2011 , 21, 520-5	6.3	70
16	Auxin and cytokinin regulate each other's levels via a metabolic feedback loop. <i>Plant Signaling and Behavior</i> , 2011 , 6, 901-4	2.5	21
15	Quantification of indole-3-acetic acid from plant associated Bacillus spp. and their phytostimulatory effect on Vigna radiata (L.). <i>World Journal of Microbiology and Biotechnology</i> , 2009 , 25, 519-526	4.4	41
14	The AUXIN BINDING PROTEIN 1 is required for differential auxin responses mediating root growth. <i>PLoS ONE</i> , 2009 , 4, e6648	3.7	108
13	Inhibited polar auxin transport results in aberrant embryo development in Norway spruce. <i>New Phytologist</i> , 2008 , 177, 356-366	9.8	60
12	Inheritance pattern of five monoterpenes in Scots pine (Pinus sylvestris L.). <i>Hereditas</i> , 2008 , 97, 261-272.2.4	0	
11	Requirement of B2-type cyclin-dependent kinases for meristem integrity in Arabidopsis thaliana. <i>Plant Cell</i> , 2008 , 20, 88-100	11.6	148
10	Vectorial information for Arabidopsis planar polarity is mediated by combined AUX1, EIN2, and GNOM activity. <i>Current Biology</i> , 2006 , 16, 2143-9	6.3	118
9	Sites and regulation of auxin biosynthesis in Arabidopsis roots. <i>Plant Cell</i> , 2005 , 17, 1090-104	11.6	410
8	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2002 , 49, 249-272	4.6	138

7	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2002 , 50, 309-32	4.6	123
6	Biosynthesis, conjugation, catabolism and homeostasis of indole-3-acetic acid in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2002 , 49, 249-72	4.6	66
5	Sites and homeostatic control of auxin biosynthesis in <i>Arabidopsis</i> during vegetative growth. <i>Plant Journal</i> , 2001 , 28, 465-74	6.9	443
4	Developmental regulation of indole-3-acetic acid turnover in Scots pine seedlings. <i>Plant Physiology</i> , 2001 , 125, 464-75	6.6	92
3	KAI2 regulates seedling development by mediating light-induced remodelling of auxin transport		1
2	Nitrates increase abscisic acid levels to regulate haustoria formation in the parasitic plant <i>Phtheirospermum japonicum</i>		1
1	iP & OEIP Cytokinin Micro Application Modulates Root Development with High Spatial Resolution. <i>Advanced Materials Technologies</i> , 2101664	6.8	1