JÃ¼rgen Kleine-Vehn

List of Publications by Year
in descending order

80 papers	8,744 citations	53794 45 h-index	66911 78 g-index
97 all docs	97 docs citations	97 times ranked	6850 citing authors

#	Article	IF	Citations
1	Staging of Emerged in Arabidopsis thaliana. Methods in Molecular Biology, 2022, 2368, 111-115.	0.9	0
2	A glossary of plant cell structures: Current insights and future questions. Plant Cell, 2022, 34, 10-52.	6.6	27
3	Regulation of immune receptor kinase plasma membrane nanoscale organization by a plant peptide hormone and its receptors. ELife, 2022, 11, .	6.0	44
4	PILS proteins provide a homeostatic feedback on auxin signaling output. Development (Cambridge), 2022, 149, .	2.5	6
5	Getting to the root of belowground high temperature responses in plants. Journal of Experimental Botany, 2021, , .	4.8	23
6	Xyloglucan Remodeling Defines Auxin-Dependent Differential Tissue Expansion in Plants. International Journal of Molecular Sciences, 2021, 22, 9222.	4.1	9
7	FRUITFULL Is a Repressor of Apical Hook Opening in Arabidopsis thaliana. International Journal of Molecular Sciences, 2020, 21, 6438.	4.1	4
8	On the discovery of an endomembrane compartment in plants. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10623-10624.	7.1	3
9	PIN-LIKES Coordinate Brassinosteroid Signaling with Nuclear Auxin Input in Arabidopsis thaliana. Current Biology, 2020, 30, 1579-1588.e6.	3.9	58
10	Same same, but different: growth responses of primary and lateral roots. Journal of Experimental Botany, 2020, 71, 2397-2411.	4.8	61
11	Asymmetric cytokinin signaling opposes gravitropism in roots. Journal of Integrative Plant Biology, 2020, 62, 882-886.	8.5	16
12	Cytokinin functions as an asymmetric and anti-gravitropic signal in lateral roots. Nature Communications, 2019, 10, 3540.	12.8	76
13	PIN-FORMED and PIN-LIKES auxin transport facilitators. Development (Cambridge), 2019, 146, .	2.5	95
14	Leucine-Rich Repeat Extensin Proteins and Their Role in Cell Wall Sensing. Current Biology, 2019, 29, R851-R858.	3.9	78
15	NET4 Modulates the Compactness of Vacuoles in Arabidopsis thaliana. International Journal of Molecular Sciences, 2019, 20, 4752.	4.1	18
16	Extracellular matrix sensing by <scp>FERONIA</scp> and Leucineâ€Rich Repeat Extensins controls vacuolar expansion during cellular elongation in <i>Arabidopsis thaliana</i>. EMBO Journal, 2019, 38, .	7.8	158
17	Identification of Novel Inhibitors of Auxin-Induced Ca²⁺ Signaling via a Plant-Based Chemical Screen. Plant Physiology, 2019, 180, 480-496.	4.8	18
18	PILS6 is a temperature-sensitive regulator of nuclear auxin input and organ growth in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3893-3898.	7.1	90

#	ARTICLE	IF	CITATIONS
19	The Road to Auxin-Dependent Growth Repression andÂPromotion in Apical Hooks. Current Biology, 2018, 28, R519-R525.	3.9	43
20	Cortical Cell Length Analysis During Gravitropic Root Growth. Methods in Molecular Biology, 2018, 1761, 191-197.	0.9	4
21	Growth Rate Normalization Method to Assess Gravitropic Root Growth. Methods in Molecular Biology, 2018, 1761, 199-208.	0.9	3
22	Immunoprecipitation of Membrane Proteins from Arabidopsis thaliana Root Tissue. Methods in Molecular Biology, 2018, 1761, 209-220.	0.9	2
23	PID/WAG-mediated phosphorylation of the Arabidopsis PIN3 auxin transporter mediates polarity switches during gravitropism. Scientific Reports, 2018, 8, 10279.	3.3	56
24	PIN7 Auxin Carrier Has a Preferential Role in Terminating Radial Root Expansion in Arabidopsis thaliana. International Journal of Molecular Sciences, 2018, 19, 1238.	4.1	36
25	Light triggers PILS-dependent reduction in nuclear auxin signalling for growth transition. Nature Plants, 2017, 3, 17105.	9.3	64
26	Histochemical Staining of Î²-Glucuronidase and Its Spatial Quantification. Methods in Molecular Biology, 2017, 1497, 73-80.	0.9	57
27	Low-Cost Microprocessor-Controlled Rotating Stage for Medium-Throughput Time-Lapse Plant Phenotyping. Methods in Molecular Biology, 2017, 1497, 37-45.	0.9	0
28	Cell biology: Zipping the Casparian strip. Nature Plants, 2016, 2, 16118.	9.3	0
29	Auxin and Cellular Elongation. Plant Physiology, 2016, 170, 1206-1215.	4.8	87
30	Actin-dependent vacuolar occupancy of the cell determines auxin-induced growth repression. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 452-457.	7.1	130
31	2,4-D and IAA Amino Acid Conjugates Show Distinct Metabolism in Arabidopsis. PLoS ONE, 2016, 11, e0159269.	2.5	31
32	Vacuolar Staining Methods in Plant Cells. Methods in Molecular Biology, 2015, 1242, 83-92.	0.9	50
33	Differential growth regulation in plants â€" the acid growth balloon theory. Current Opinion in Plant Biology, 2015, 28, 55-59.	7.1	51
34	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
35	Auxin Carrier and Signaling Dynamics During Gravitropic Root Growth. Methods in Molecular Biology, 2015, 1309, 71-80.	0.9	6
36	Auxin regulates SNARE-dependent vacuolar morphology restricting cell size. ELife, 2015, 4, .	6.0	95

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37	BEX1/ARF1A1C is Required for BFA-Sensitive Recycling of PIN Auxin Transporters and Auxin-Mediated Development in Arabidopsis. Plant and Cell Physiology, 2014, 55, 737-749.	3.1	52
38	Intracellular Auxin Transport. , 2014, , 61-73.		4
39	Single-cell-based system to monitor carrier driven cellular auxin homeostasis. BMC Plant Biology, 2013, 13, 20.	3.6	28
40	Cell Polarity and Development. Journal of Integrative Plant Biology, 2013, 55, 786-788.	8.5	2
41	Divide Et Imperaâ€"cellular auxin compartmentalization. Current Opinion in Plant Biology, 2013, 16, 78-84.	7.1	50
42	Halotropism: Turning Down the Salty Date. Current Biology, 2013, 23, R927-R929.	3.9	17
43	The Clathrin Adaptor Complex AP-2 Mediates Endocytosis of BRASSINOSTEROID INSENSITIVE1 in<i>Arabidopsis</i>Â. Plant Cell, 2013, 25, 2986-2997.	6.6	171
44	Auxin: simply complicated. Journal of Experimental Botany, 2013, 64, 2565-2577.	4.8	269
45	Epidermal Patterning Genes Impose Nonâ€cell Autonomous Cell Size Determination and have Additional Roles in Root Meristem Size Control. Journal of Integrative Plant Biology, 2013, 55, 864-875.	8.5	21
46	Posttranslational modification and trafficking of PIN auxin efflux carriers. Mechanisms of Development, 2013, 130, 82-94.	1.7	50
47	An Auxin Transport Mechanism Restricts Positive Orthogravitropism in Lateral Roots. Current Biology, 2013, 23, 817-822.	3.9	134
48	Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. Molecular Systems Biology, 2013, 9, 699.	7.2	104
49	Evolution and structural diversification of PILS putative auxin carriers in plants. Frontiers in Plant Science, 2012, 3, 227.	3.6	76
50	Cellular Auxin Homeostasis: Gatekeeping Is Housekeeping. Molecular Plant, 2012, 5, 772-786.	8.3	148
51	SCFTIR1/AFB-auxin signalling regulates PIN vacuolar trafficking and auxin fluxes during root gravitropism. EMBO Journal, 2012, 32, 260-274.	7.8	152
52	GOLVEN Secretory Peptides Regulate Auxin Carrier Turnover during Plant Gravitropic Responses. Developmental Cell, 2012, 22, 678-685.	7.0	182
53	A novel putative auxin carrier family regulates intracellular auxin homeostasis in plants. Nature, 2012, 485, 119-122.	27.8	345
54	Cell wall constrains lateral diffusion of plant plasma-membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12805-12810.	7.1	224

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55	Inositol Trisphosphate-Induced Ca2+ Signaling Modulates Auxin Transport and PIN Polarity. Developmental Cell, 2011, 20, 855-866.	7.0	121
56	Cytokinin Modulates Endocytic Trafficking of PIN1 Auxin Efflux Carrier to Control Plant Organogenesis. Developmental Cell, 2011, 21, 796-804.	7.0	268
57	Feedback models for polarized auxin transport: an emerging trend. Molecular BioSystems, 2011, 7, 2352.	2.9	42
58	Prototype cell-to-cell auxin transport mechanism by intracellular auxin compartmentalization. Trends in Plant Science, 2011, 16, 468-475.	8.8	45
59	Light-mediated polarization of the PIN3 auxin transporter for the phototropic response in Arabidopsis. Nature Cell Biology, 2011, 13, 447-452.	10.3	295
60	PIN Polarity Maintenance by the Cell Wall in Arabidopsis. Current Biology, 2011, 21, 338-343.	3.9	336
61	The AP-3 adaptor complex is required for vacuolar function in Arabidopsis. Cell Research, 2011, 21, 1711-1722.	12.0	114
62	AUXIN BINDING PROTEIN1: The Outsider. Plant Cell, 2011, 23, 2033-2043.	6.6	99
63	Recycling, clustering, and endocytosis jointly maintain PIN auxin carrier polarity at the plasma membrane. Molecular Systems Biology, 2011, 7, 540.	7.2	232
64	Trafficking to the Outer Polar Domain Defines the Root-Soil Interface. Current Biology, 2010, 20, 904-908.	3.9	80
65	Probing plant membranes with FM dyes: tracking, dragging or blocking?. Plant Journal, 2010, 61, 883-892.	5.7	104
66	Emergence of tissue polarization from synergy of intracellular and extracellular auxin signaling. Molecular Systems Biology, 2010, 6, 447.	7.2	126
67	Gravity-induced PIN transcytosis for polarization of auxin fluxes in gravity-sensing root cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22344-22349.	7.1	287
68	PIN Auxin Efflux Carrier Polarity Is Regulated by PINOID Kinase-Mediated Recruitment into GNOM-Independent Trafficking in<i>Arabidopsis</i>Â Â. Plant Cell, 2010, 21, 3839-3849.	6.6	165
69	Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling. Development (Cambridge), 2010, 137, 3245-3255.	2.5	201
70	ADP-ribosylation factor machinery mediates endocytosis in plant cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21890-21895.	7.1	129
71	The AP-3 Î² Adaptin Mediates the Biogenesis and Function of Lytic Vacuoles in<i>Arabidopsis</i>Â Â. Plant Cell, 2010, 22, 2812-2824.	6.6	128
72	ABP1 Mediates Auxin Inhibition of Clathrin-Dependent Endocytosis in Arabidopsis. Cell, 2010, 143, 111-121.	28.9	386

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73	ARF GEF-Dependent Transcytosis and Polar Delivery of PIN Auxin Carriers in Arabidopsis. Current Biology, 2008, 18, 526-531.	3.9	250
74	Polar Targeting and Endocytic Recycling in Auxin-Dependent Plant Development. Annual Review of Cell and Developmental Biology, 2008, 24, 447-473.	9.4	252
75	Cellular and Molecular Requirements for Polar PIN Targeting and Transcytosis in Plants. Molecular Plant, 2008, 1, 1056-1066.	8.3	124
76	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
77	Subcellular Trafficking of the Arabidopsis Auxin Influx Carrier AUX1 Uses a Novel Pathway Distinct from PIN1. Plant Cell, 2006, 18, 3171-3181.	6.6	239
78	Auxin inhibits endocytosis and promotes its own efflux from cells. Nature, 2005, 435, 1251-1256.	27.8	712
79	Cell polarity, auxin transport, and cytoskeleton-mediated division planes: who comes first?. Protoplasma, 2005, 226, 67-73.	2.1	21
80	Endocytic trafficking promotes vacuolar enlargements for fast cell expansion rates in plants. ELife, 0, 11, .	6.0	8