Markus Grebe

List of Publications by Year
in descending order

49	4,741	201674 27	189892 50
papers	citations	h-index	g-index

51	51	51	4639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plant cell biology: PIN polarity maintained. Current Biology, 2021, 31, R449-R451.	3.9	3
2	Membrane Sterol Composition in Arabidopsis thaliana Affects Root Elongation via Auxin Biosynthesis. International Journal of Molecular Sciences, 2021, 22, 437.	4.1	7
3	Rho-of-plant-activated root hair formation requires Arabidopsis YIP4a/b gene function. Development (Cambridge), 2019, 146, .	2.5	25
4	Cellulose synthesis during cell plate assembly. Physiologia Plantarum, 2018, 164, 17-26.	5.2	27
5	Auxin and ROP GTPase Signaling of Polar Nuclear Migration in Root Epidermal Hair Cells. Plant Physiology, 2018, 176, 378-391.	4.8	27
6	Outer, inner and planar polarity in the Arabidopsis root. Current Opinion in Plant Biology, 2018, 41, 46-53.	7.1	36
7	Regulating plant physiology with organic electronics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4597-4602.	7.1	51
8	Arabidopsis BTB/POZ protein-dependent PENETRATION3 trafficking and disease susceptibility. Nature Plants, 2017, 3, 854-858.	9.3	14
9	A Model Analysis of Mechanisms for Radial Microtubular Patterns at Root Hair Initiation Sites. Frontiers in Plant Science, 2016, 7, 1560.	3.6	10
10	A Framework for Lateral Membrane Trafficking and Polar Tethering of the PEN3 ATP-Binding Cassette Transporter. Plant Physiology, 2016, 172, 2245-2260.	4.8	49
11	Ratiometric Fluorescence Live Imaging Analysis of Membrane Lipid Order in Arabidopsis Mitotic Cells Using a Lipid Order-Sensitive Probe. Methods in Molecular Biology, 2016, 1370, 227-239.	0.9	7
12	Arabidopsis D6PK is a lipid domain-dependent mediator of root epidermal planar polarity. Nature Plants, 2015, 1, 15162.	9.3	52
13	Arabidopsis AIP1-2 restricted by WER-mediated patterning modulates planar polarity. Development (Cambridge), 2015, 142, 151-161.	2.5	29
14	SABRE is required for stabilization of root hair patterning in Arabidopsis thaliana. Physiologia Plantarum, 2015, 153, 440-453.	5.2	14
15	High lipid order of Arabidopsis cellâ€plate membranes mediated by sterol and DYNAMINâ€RELATED PROTEIN1A function. Plant Journal, 2014, 80, 745-757.	5.7	28
16	Sterol Dynamics During Endocytic Trafficking in Arabidopsis. Methods in Molecular Biology, 2014, 1209, 13-29.	0.9	8
17	Immunocytochemical Fluorescent In Situ Visualization of Proteins In Arabidopsis. Methods in Molecular Biology, 2014, 1062, 453-472.	0.9	16
18	The Endoplasmic Reticulum Is the Main Membrane Source for Biogenesis of the Lytic Vacuole inArabidopsisÂ. Plant Cell, 2013, 25, 3434-3449.	6.6	162

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19	Arabidopsis SABRE and CLASP interact to stabilize cell division plane orientation and planar polarity. Nature Communications, 2013, 4, 2779.	12.8	60
20	Planar polarity, tissue polarity and planar morphogenesis in plants. Current Opinion in Plant Biology, 2012, 15, 593-600.	7.1	29
21	The patterning of epidermal hairs in Arabidopsisâ€"updated. Current Opinion in Plant Biology, 2012, 15, 31-37.	7.1	154
22	Out of the shade and into the light. Nature Cell Biology, 2011, 13, 347-349.	10.3	7
23	Fluorescent in situ visualization of sterols in Arabidopsis roots. Nature Protocols, 2011, 6, 446-456.	12.0	36
24	Unveiling the Casparian strip. Nature, 2011, 473, 294-295.	27.8	17
25	Conserved Arabidopsis ECHIDNA protein mediates trans â€"Golgi-network trafficking and cell elongation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8048-8053.	7.1	130
26	Cell Polarity: Lateral Perspectives. Current Biology, 2010, 20, R446-R448.	3.9	7
27	Endocytosis restricts Arabidopsis KNOLLE syntaxin to the cell division plane during late cytokinesis. EMBO Journal, 2010, 29, 546-558.	7.8	132
28	Auxin Paves the Way for Planar Morphogenesis. Cell, 2010, 143, 29-31.	28.9	4
29	Cellular processes relying on sterol function in plants. Current Opinion in Plant Biology, 2009, 12, 705-713.	7.1	96
30	Local auxin biosynthesis modulates gradient-directed planar polarity in Arabidopsis. Nature Cell Biology, 2009, 11, 731-738.	10.3	153
31	An Auxin Gradient and Maximum in theArabidopsisRoot Apex Shown by High-Resolution Cell-Specific Analysis of IAA Distribution and Synthesis. Plant Cell, 2009, 21, 1659-1668.	6.6	439
32	Sterol-dependent endocytosis mediates post-cytokinetic acquisition of PIN2 auxin efflux carrier polarity. Nature Cell Biology, 2008, 10, 237-244.	10.3	313
33	Insight into the early steps of root hair formation revealed by the procuste1 cellulose synthase mutant of Arabidopsis thaliana. BMC Plant Biology, 2008, 8, 57.	3.6	37
34	Mechanisms of auxin-dependent cell and tissue polarity. Current Opinion in Plant Biology, 2007, 10, 616-623.	7.1	46
35	Apicalâ€"basal polarity: why plant cells don't standon their heads. Trends in Plant Science, 2006, 11, 12-14.	8.8	37
36	Vectorial Information for Arabidopsis Planar Polarity Is Mediated by Combined AUX1, EIN2, and GNOM Activity. Current Biology, 2006, 16, 2143-2149.	3.9	141

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37	Evidence for a protein transported through the secretory pathway en route to the higher plant chloroplast. Nature Cell Biology, 2005, 7, 1224-1231.	10.3	333
38	PLANT BIOLOGY: Enhanced: Growth by Auxin: When a Weed Needs Acid. Science, 2005, 310, 60-61.	12.6	19
39	Lipid function in plant cell polarity. Current Opinion in Plant Biology, 2004, 7, 670-676.	7.1	56
40	Ups and downs of tissue and planar polarity in plants. BioEssays, 2004, 26, 719-729.	2.5	45
41	Arabidopsis Sterol Endocytosis Involves Actin-Mediated Trafficking via ARA6-Positive Early Endosomes. Current Biology, 2003, 13, 1378-1387.	3.9	390
42	Cell Polarity and PIN Protein Positioning in Arabidopsis Require STEROL METHYLTRANSFERASE1 Function. Plant Cell, 2003, 15, 612-625.	6.6	260
43	Cell Polarity Signaling in Arabidopsis Involves a BFA-Sensitive Auxin Influx Pathway. Current Biology, 2002, 12, 329-334.	3.9	131
44	Cell axiality and polarity in plants â€" adding pieces to the puzzle. Current Opinion in Plant Biology, 2001, 4, 520-526.	7.1	19
45	Functional characterization of the KNOLLE-interacting t-SNARE AtSNAP33 and its role in plant cytokinesis. Journal of Cell Biology, 2001, 155, 239-250.	5.2	166
46	A Conserved Domain of the Arabidopsis GNOM Protein Mediates Subunit Interaction and Cyclophilin 5 Binding. Plant Cell, 2000, 12, 343-356.	6.6	128
47	A Conserved Domain of the Arabidopsis GNOM Protein Mediates Subunit Interaction and Cyclophilin 5 Binding. Plant Cell, 2000, 12, 343.	6.6	8
48	Coordinated Polar Localization of Auxin Efflux Carrier PIN1 by GNOM ARF GEF. Science, 1999, 286, 316-318.	12.6	754
49	Establishment of cell polarity during early plant development. Current Opinion in Cell Biology, 1997, 9, 849-852.	5.4	28