

Markus Grebe

List of Publications by Year in descending order

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49
papers

4,741
citations

201674

27
h-index

189892

50
g-index

51
all docs

51
docs citations

51
times ranked

4639
citing authors

#	ARTICLE	IF	CITATIONS
1	Coordinated Polar Localization of Auxin Efflux Carrier PIN1 by GNOM ARF GEF. <i>Science</i> , 1999, 286, 316-318.	12.6	754
2	An Auxin Gradient and Maximum in the <i>Arabidopsis</i> Root Apex Shown by High-Resolution Cell-Specific Analysis of IAA Distribution and Synthesis. <i>Plant Cell</i> , 2009, 21, 1659-1668.	6.6	439
3	<i>Arabidopsis</i> Sterol Endocytosis Involves Actin-Mediated Trafficking via ARA6-Positive Early Endosomes. <i>Current Biology</i> , 2003, 13, 1378-1387.	3.9	390
4	Evidence for a protein transported through the secretory pathway en route to the higher plant chloroplast. <i>Nature Cell Biology</i> , 2005, 7, 1224-1231.	10.3	333
5	Sterol-dependent endocytosis mediates post-cytokinetic acquisition of PIN2 auxin efflux carrier polarity. <i>Nature Cell Biology</i> , 2008, 10, 237-244.	10.3	313
6	Cell Polarity and PIN Protein Positioning in <i>Arabidopsis</i> Require STEROL METHYLTRANSFERASE1 Function. <i>Plant Cell</i> , 2003, 15, 612-625.	6.6	260
7	Functional characterization of the KNOLLE-interacting t-SNARE AtSNAP33 and its role in plant cytokinesis. <i>Journal of Cell Biology</i> , 2001, 155, 239-250.	5.2	166
8	The Endoplasmic Reticulum Is the Main Membrane Source for Biogenesis of the Lytic Vacuole in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3434-3449.	6.6	162
9	The patterning of epidermal hairs in <i>Arabidopsis</i> is updated. <i>Current Opinion in Plant Biology</i> , 2012, 15, 31-37.	7.1	154
10	Local auxin biosynthesis modulates gradient-directed planar polarity in <i>Arabidopsis</i> . <i>Nature Cell Biology</i> , 2009, 11, 731-738.	10.3	153
11	Vectorial Information for <i>Arabidopsis</i> Planar Polarity Is Mediated by Combined AUX1, EIN2, and GNOM Activity. <i>Current Biology</i> , 2006, 16, 2143-2149.	3.9	141
12	Endocytosis restricts <i>Arabidopsis</i> KNOLLE syntaxin to the cell division plane during late cytokinesis. <i>EMBO Journal</i> , 2010, 29, 546-558.	7.8	132
13	Cell Polarity Signaling in <i>Arabidopsis</i> Involves a BFA-Sensitive Auxin Influx Pathway. <i>Current Biology</i> , 2002, 12, 329-334.	3.9	131
14	Conserved <i>Arabidopsis</i> ECHIDNA protein mediates trans-Golgi-network trafficking and cell elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8048-8053.	7.1	130
15	A Conserved Domain of the <i>Arabidopsis</i> GNOM Protein Mediates Subunit Interaction and Cyclophilin 5 Binding. <i>Plant Cell</i> , 2000, 12, 343-356.	6.6	128
16	Cellular processes relying on sterol function in plants. <i>Current Opinion in Plant Biology</i> , 2009, 12, 705-713.	7.1	96
17	<i>Arabidopsis</i> SABRE and CLASP interact to stabilize cell division plane orientation and planar polarity. <i>Nature Communications</i> , 2013, 4, 2779.	12.8	60
18	Lipid function in plant cell polarity. <i>Current Opinion in Plant Biology</i> , 2004, 7, 670-676.	7.1	56

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19	Arabidopsis D6PK is a lipid domain-dependent mediator of root epidermal planar polarity. <i>Nature Plants</i> , 2015, 1, 15162.	9.3	52
20	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.	7.1	51
21	A Framework for Lateral Membrane Trafficking and Polar Tethering of the PEN3 ATP-Binding Cassette Transporter. <i>Plant Physiology</i> , 2016, 172, 2245-2260.	4.8	49
22	Mechanisms of auxin-dependent cell and tissue polarity. <i>Current Opinion in Plant Biology</i> , 2007, 10, 616-623.	7.1	46
23	Ups and downs of tissue and planar polarity in plants. <i>BioEssays</i> , 2004, 26, 719-729.	2.5	45
24	Apical-basal polarity: why plant cells don't stand on their heads. <i>Trends in Plant Science</i> , 2006, 11, 12-14.	8.8	37
25	Insight into the early steps of root hair formation revealed by the <i>procuste1</i> cellulose synthase mutant of <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2008, 8, 57.	3.6	37
26	Fluorescent in situ visualization of sterols in <i>Arabidopsis</i> roots. <i>Nature Protocols</i> , 2011, 6, 446-456.	12.0	36
27	Outer, inner and planar polarity in the <i>Arabidopsis</i> root. <i>Current Opinion in Plant Biology</i> , 2018, 41, 46-53.	7.1	36
28	Planar polarity, tissue polarity and planar morphogenesis in plants. <i>Current Opinion in Plant Biology</i> , 2012, 15, 593-600.	7.1	29
29	<i>Arabidopsis AIP1-2</i> restricted by <i>WER</i> -mediated patterning modulates planar polarity. <i>Development (Cambridge)</i> , 2015, 142, 151-161.	2.5	29
30	Establishment of cell polarity during early plant development. <i>Current Opinion in Cell Biology</i> , 1997, 9, 849-852.	5.4	28
31	High lipid order of <i>Arabidopsis</i> cell plate membranes mediated by sterol and DYNAMIN-RELATED PROTEIN1A function. <i>Plant Journal</i> , 2014, 80, 745-757.	5.7	28
32	Cellulose synthesis during cell plate assembly. <i>Physiologia Plantarum</i> , 2018, 164, 17-26.	5.2	27
33	Auxin and ROP GTPase Signaling of Polar Nuclear Migration in Root Epidermal Hair Cells. <i>Plant Physiology</i> , 2018, 176, 378-391.	4.8	27
34	Rho-of-plant-activated root hair formation requires <i>Arabidopsis YIP4a/b</i> gene function. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	25
35	Cell axiality and polarity in plants – adding pieces to the puzzle. <i>Current Opinion in Plant Biology</i> , 2001, 4, 520-526.	7.1	19
36	PLANT BIOLOGY: Enhanced: Growth by Auxin: When a Weed Needs Acid. <i>Science</i> , 2005, 310, 60-61.	12.6	19

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37	Unveiling the Casparian strip. <i>Nature</i> , 2011, 473, 294-295.	27.8	17
38	Immunocytochemical Fluorescent In Situ Visualization of Proteins In Arabidopsis. <i>Methods in Molecular Biology</i> , 2014, 1062, 453-472.	0.9	16
39	SABRE is required for stabilization of root hair patterning in <i>Arabidopsis thaliana</i> . <i>Physiologia Plantarum</i> , 2015, 153, 440-453.	5.2	14
40	Arabidopsis BTB/POZ protein-dependent PENETRATION3 trafficking and disease susceptibility. <i>Nature Plants</i> , 2017, 3, 854-858.	9.3	14
41	A Model Analysis of Mechanisms for Radial Microtubular Patterns at Root Hair Initiation Sites. <i>Frontiers in Plant Science</i> , 2016, 7, 1560.	3.6	10
42	A Conserved Domain of the Arabidopsis GNOM Protein Mediates Subunit Interaction and Cyclophilin 5 Binding. <i>Plant Cell</i> , 2000, 12, 343.	6.6	8
43	Sterol Dynamics During Endocytic Trafficking in Arabidopsis. <i>Methods in Molecular Biology</i> , 2014, 1209, 13-29.	0.9	8
44	Cell Polarity: Lateral Perspectives. <i>Current Biology</i> , 2010, 20, R446-R448.	3.9	7
45	Out of the shade and into the light. <i>Nature Cell Biology</i> , 2011, 13, 347-349.	10.3	7
46	Membrane Sterol Composition in <i>Arabidopsis thaliana</i> Affects Root Elongation via Auxin Biosynthesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 437.	4.1	7
47	Ratiometric Fluorescence Live Imaging Analysis of Membrane Lipid Order in Arabidopsis Mitotic Cells Using a Lipid Order-Sensitive Probe. <i>Methods in Molecular Biology</i> , 2016, 1370, 227-239.	0.9	7
48	Auxin Paves the Way for Planar Morphogenesis. <i>Cell</i> , 2010, 143, 29-31.	28.9	4
49	Plant cell biology: PIN polarity maintained. <i>Current Biology</i> , 2021, 31, R449-R451.	3.9	3