Magdalena Bezanilla

List of Publications by Year
in descending order

52 papers	3,347 citations	236925 25 h-index	206112 48 g-index
60 all docs	60 docs citations	60 times ranked	3440 citing authors

#	Article	IF	Citations
1	MOSSES AS MODEL SYSTEMS FOR THE STUDY OF METABOLISM AND DEVELOPMENT. Annual Review of Plant Biology, 2006, 57, 497-520.	18.7	237
2	Lifeact-mEGFP Reveals a Dynamic Apical F-Actin Network in Tip Growing Plant Cells. PLoS ONE, 2009, 4, e5744.	2.5	196
3	The Moss <i>Physcomitrium</i> (<i>Physcomitrella</i>) <i>patens</i>: A Model Organism for Non-Seed Plants. Plant Cell, 2020, 32, 1361-1376.	6.6	188
4	Growth Mechanisms in Tip-Growing Plant Cells. Annual Review of Plant Biology, 2013, 64, 243-265.	18.7	180
5	Myosin VIII associates with microtubule ends and together with actin plays a role in guiding plant cell division. ELife, 2014, 3, .	6.0	175
6	Non-model model organisms. BMC Biology, 2017, 15, 55.	3.8	164
7	Rapid formin-mediated actin-filament elongation is essential for polarized plant cell growth. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13341-13346.	7.1	158
8	Plant Cytokinesis: Terminology for Structures and Processes. Trends in Cell Biology, 2017, 27, 885-894.	7.9	155
9	Cytoskeletal dynamics: A view from the membrane. Journal of Cell Biology, 2015, 209, 329-337.	5.2	147
10	Myosin XI Is Essential for Tip Growth in<i>Physcomitrella patens</i>Â. Plant Cell, 2010, 22, 1868-1882.	6.6	142
11	Profilin Is Essential for Tip Growth in the Moss<i>Physcomitrella patens</i>. Plant Cell, 2007, 19, 3705-3722.	6.6	131
12	Evolutionary crossroads in developmental biology: <i>Physcomitrella patens</i>. Development (Cambridge), 2010, 137, 3535-3543.	2.5	120
13	RNA Interference in the Moss Physcomitrella patens Â. Plant Physiology, 2003, 133, 470-474.	4.8	113
14	Actin depolymerizing factor is essential for viability in plants, and its phosphoregulation is important for tip growth. Plant Journal, 2008, 54, 863-875.	5.7	107
15	Class II formin targeting to the cell cortex by binding PI(3,5)P2 is essential for polarized growth. Journal of Cell Biology, 2012, 198, 235-250.	5.2	94
16	Physcomitrella patens: a model for tip cell growth and differentiation. Current Opinion in Plant Biology, 2012, 15, 625-631.	7.1	74
17	Actin Interacting Protein1 and Actin Depolymerizing Factor Drive Rapid Actin Dynamics in<i>Physcomitrella patens</i>Â. Plant Cell, 2011, 23, 3696-3710.	6.6	70
18	Actin and microtubule cross talk mediates persistent polarized growth. Journal of Cell Biology, 2018, 217, 3531-3544.	5.2	70

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19	Interplay between Ions, the Cytoskeleton, and Cell Wall Properties during Tip Growth. Plant Physiology, 2018, 176, 28-40.	4.8	65
20	Parallel up-regulation of the profilin gene family following independent domestication of diploid and allopolyploid cotton (<i>Gossypium</i>). Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21152-21157.	7.1	61
21	Plant PIEZO homologs modulate vacuole morphology during tip growth. Science, 2021, 373, 586-590.	12.6	58
22	Plant formins: membrane anchors for actin polymerization. Trends in Cell Biology, 2013, 23, 227-233.	7.9	56
23	Long-Term Growth of Moss in Microfluidic Devices Enables Subcellular Studies in Development. Plant Physiology, 2016, 172, 28-37.	4.8	52
24	Myosin VIII Regulates Protonemal Patterning and Developmental Timing in the Moss Physcomitrella patens. Molecular Plant, 2011, 4, 909-921.	8.3	51
25	A family of ROP proteins that suppress actin dynamics and are essential for polarized growth and cell adhesion. Journal of Cell Science, 2015, 128, 2553-64.	2.0	43
26	Efficient and modular CRISPRâ€Cas9 vector system for <i>Physcomitrella patens</i>. Plant Direct, 2019, 3, e00168.	1.9	39
27	Orchestrating cell morphology from the inside out â€“ using polarized cell expansion in plants as a model. Current Opinion in Cell Biology, 2020, 62, 46-53.	5.4	32
28	A Fully Functional ROP Fluorescent Fusion Protein Reveals Roles for This GTPase in Subcellular and Tissue-Level Patterning. Plant Cell, 2020, 32, 3436-3451.	6.6	29
29	Phylogenetic Analysis of New Plant Myosin Sequences. Journal of Molecular Evolution, 2003, 57, 229-239.	1.8	27
30	A glossary of plant cell structures: Current insights and future questions. Plant Cell, 2022, 34, 10-52.	6.6	27
31	Spindle Positioning: Actin Mediates Pushing and Pulling. Current Biology, 2009, 19, R168-R169.	3.9	24
32	Rapid Screening for Temperature-Sensitive Alleles in Plants. Plant Physiology, 2009, 151, 506-514.	4.8	23
33	Simultaneous imaging and functional studies reveal a tight correlation between calcium and actin networks. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2869-E2878.	7.1	23
34	An ancient Sec10â€“formin fusion provides insights into actin-mediated regulation of exocytosis. Journal of Cell Biology, 2018, 217, 945-957.	5.2	23
35	Systematic survey of the function of ROP regulators and effectors during tip growth in the moss <i>Physcomitrella patens</i>. Journal of Experimental Botany, 2019, 70, 447-457.	4.8	22
36	Direct observation of the effects of cellulose synthesis inhibitors using live cell imaging of Cellulose Synthase (CESA) in Physcomitrella patens. Scientific Reports, 2018, 8, 735.	3.3	21

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37	<i><scp>SECONDARY WALL ASSOCIATED MYB</scp>1</i> is a positive regulator of secondary cell wall thickening in <i>Brachypodium distachyon</i> and is not found in the Brassicaceae. Plant Journal, 2018, 96, 532-545.	5.7	20
38	Phosphatase and tensin homolog (PTEN) is a growth repressor of both rhizoid and gametophore development in the moss Physcomitrella patens.. Plant Physiology, 2015, 169, pp.01197.2015.	4.8	17
39	Conditional genetic screen in Physcomitrella patens reveals a novel microtubule depolymerizing-end-tracking protein. PLoS Genetics, 2018, 14, e1007221.	3.5	17
40	Cytoskeletal discoveries in the plant lineage using the moss Physcomitrella patens. Biophysical Reviews, 2018, 10, 1683-1693.	3.2	16
41	Geometric cues forecast the switch from twoâ€•to threeâ€dimensional growth in Physcomitrella patens. New Phytologist, 2020, 225, 1945-1955.	7.3	16
42	A model suite of green algae within the Scenedesmaceae for investigating contrasting desiccation tolerance and morphology. Journal of Cell Science, 2018, 131, .	2.0	15
43	SABRE populates ER domains essential for cell plate maturation and cell expansion influencing cell and tissue patterning. ELife, 2021, 10, .	6.0	11
44	In vivo analysis of formin dynamics reveals functional class diversification. Journal of Cell Science, 2020, 133, .	2.0	9
45	COPII Sec23 proteins form isoform-specific endoplasmic reticulum exit sites with differential effects on polarized growth. Plant Cell, 2022, 34, 333-350.	6.6	9
46	Tip Growth in the MossPhyscomitrella patens. , 0, , 143-166.		3
47	Transient RNAi Assay in 96-Well Plate Format Facilitates High-Throughput Gene Function Studies in Planta. Methods in Molecular Biology, 2012, 918, 327-340.	0.9	2
48	What can plants do for cell biology?. Molecular Biology of the Cell, 2013, 24, 2491-2493.	2.1	2
49	Patterning the cell: membraneâ€"cytoskeleton crosstalk. Current Opinion in Plant Biology, 2013, 16, 675-677.	7.1	1
50	Back to the roots: A focus on plant cell biology. Plant Cell, 2022, 34, 1-3.	6.6	1
51	Finding a Niche. Molecular Biology of the Cell, 2010, 21, 3762-3763.	2.1	0
52	Slip slidin' away: Bristleâ€driven gliding by <i>Tetradesmus deserticola</i> (chlorophyta) in microfluidic chambers ¹. Journal of Phycology, 0, , .	2.3	0