

Sebastian Y Bednarek

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

6,414
citations

136885

32
h-index

206029

48
g-index

51
all docs

51
docs citations

51
times ranked

8726
citing authors

#	ARTICLE	IF	CITATIONS
1	TrackMate: An open and extensible platform for single-particle tracking. <i>Methods</i> , 2017, 115, 80-90.	1.9	2,546
2	ABP1 Mediates Auxin Inhibition of Clathrin-Dependent Endocytosis in Arabidopsis. <i>Cell</i> , 2010, 143, 111-121.	13.5	386
3	The TPLATE Adaptor Complex Drives Clathrin-Mediated Endocytosis in Plants. <i>Cell</i> , 2014, 156, 691-704.	13.5	238
4	The Arabidopsis Rab GTPase RabA4b Localizes to the Tips of Growing Root Hair Cells[W]. <i>Plant Cell</i> , 2004, 16, 1589-1603.	3.1	233
5	Variable-angle epifluorescence microscopy: a new way to look at protein dynamics in the plant cell cortex. <i>Plant Journal</i> , 2008, 53, 186-196.	2.8	209
6	Dynamics of Arabidopsis Dynamin-Related Protein 1C and a Clathrin Light Chain at the Plasma Membrane. <i>Plant Cell</i> , 2008, 20, 1363-1380.	3.1	207
7	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography[W]. <i>Plant Cell</i> , 2001, 13, 2033-2051.	3.1	175
8	Members of the Arabidopsis Dynamin-Like Gene Family, ADL1, Are Essential for Plant Cytokinesis and Polarized Cell Growth[W]. <i>Plant Cell</i> , 2003, 15, 899-913.	3.1	159
9	Clathrin Light Chains Regulate Clathrin-Mediated Trafficking, Auxin Signaling, and Development in Arabidopsis. <i>Plant Cell</i> , 2013, 25, 499-516.	3.1	152
10	Identification of transcribed sequences in Arabidopsis thaliana by using high-resolution genome tiling arrays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4453-4458.	3.3	147
11	Cytoskeletal and membrane dynamics during higher plant cytokinesis. <i>New Phytologist</i> , 2013, 197, 1039-1057.	3.5	111
12	The Arabidopsis Cell Plate-Associated Dynamin-Like Protein, ADL1Ap, Is Required for Multiple Stages of Plant Growth and Development. <i>Plant Physiology</i> , 2001, 126, 47-68.	2.3	103
13	Characterization of AtCDC48. Evidence for Multiple Membrane Fusion Mechanisms at the Plane of Cell Division in Plants. <i>Plant Physiology</i> , 2002, 130, 1241-1253.	2.3	100
14	Loss of Arabidopsis thaliana Dynamin-Related Protein 2B Reveals Separation of Innate Immune Signaling Pathways. <i>PLoS Pathogens</i> , 2014, 10, e1004578.	2.1	96
15	SCD1 is required for cell cytokinesis and polarized cell expansion in Arabidopsis thaliana. <i>Development (Cambridge)</i> , 2003, 130, 4011-4024.	1.2	93
16	Comparison of the Dynamics and Functional Redundancy of the Arabidopsis Dynamin-Related Isoforms DRP1A and DRP1C during Plant Development. <i>Plant Physiology</i> , 2008, 147, 1590-1602.	2.3	90
17	Cell Plate Restricted Association of DRP1A and PIN Proteins Is Required for Cell Polarity Establishment in Arabidopsis. <i>Current Biology</i> , 2011, 21, 1055-1060.	1.8	89
18	The Arabidopsis Dynamin-Related Protein2 Family Is Essential for Gametophyte Development. <i>Plant Cell</i> , 2010, 22, 3218-3231.	3.1	88

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19	The dynamin-like protein ADL1C is essential for plasma membrane maintenance during pollen maturation. <i>Plant Journal</i> , 2003, 35, 1-15.	2.8	86
20	NPSN11 Is a Cell Plate-Associated SNARE Protein That Interacts with the Syntaxin KNOLLE. <i>Plant Physiology</i> , 2002, 129, 530-539.	2.3	84
21	Dynamin and Cytokinesis. <i>Traffic</i> , 2006, 7, 239-247.	1.3	79
22	<i>Arabidopsis</i> SH3P2 is an ubiquitin-binding protein that functions together with ESCRT-I and the deubiquitylating enzyme AMSH3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E7197-E7204.	3.3	71
23	Inroads into Internalization: Five Years of Endocytic Exploration. <i>Plant Physiology</i> , 2018, 176, 208-218.	2.3	69
24	Membrane Trafficking During Plant Cytokinesis. <i>Traffic</i> , 2002, 3, 621-629.	1.3	66
25	SCD1 and SCD2 Form a Complex That Functions with the Exocyst and RabE1 in Exocytosis and Cytokinesis. <i>Plant Cell</i> , 2017, 29, 2610-2625.	3.1	66
26	Novel Functions of Stomatal Cytokinesis-Defective 1 (SCD1) in Innate Immune Responses against Bacteria. <i>Journal of Biological Chemistry</i> , 2010, 285, 23342-23350.	1.6	60
27	MTV1 and MTV4 Encode Plant-Specific ENTH and ARF GAP Proteins That Mediate Clathrin-Dependent Trafficking of Vacuolar Cargo from the Trans-Golgi Network. <i>Plant Cell</i> , 2013, 25, 2217-2235.	3.1	60
28	Differential Regulation of Clathrin and Its Adaptor Proteins during Membrane Recruitment for Endocytosis. <i>Plant Physiology</i> , 2016, 171, 215-229.	2.3	56
29	Plant dynamin-related protein families DRP1 and DRP2 in plant development. <i>Biochemical Society Transactions</i> , 2010, 38, 797-806.	1.6	52
30	The Microtubule Plus-End Tracking Proteins SPR1 and EB1b Interact to Maintain Polar Cell Elongation and Directional Organ Growth in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2014, 26, 4409-4425.	3.1	52
31	Mediation of Clathrin-Dependent Trafficking during Cytokinesis and Cell Expansion by <i>Arabidopsis</i> STOMATAL CYTOKINESIS DEFECTIVE Proteins. <i>Plant Cell</i> , 2013, 25, 3910-3925.	3.1	44
32	Budding and braking news about clathrin-mediated endocytosis. <i>Current Opinion in Plant Biology</i> , 2013, 16, 718-725.	3.5	33
33	Plant AP180 N-Terminal Homolog Proteins Are Involved in Clathrin-Dependent Endocytosis during Pollen Tube Growth in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2019, 60, 1316-1330.	1.5	33
34	Proteomic characterization of isolated <i>Arabidopsis</i> clathrin-coated vesicles reveals evolutionarily conserved and plant-specific components. <i>Plant Cell</i> , 2022, 34, 2150-2173.	3.1	31
35	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.	2.8	28
36	The VASCULATURE COMPLEXITY AND CONNECTIVITY Gene Encodes a Plant-Specific Protein Required for Embryo Provasculature Development. <i>Plant Physiology</i> , 2014, 166, 889-902.	2.3	28

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37	The TPLATE complex mediates membrane bending during plant clathrin-mediated endocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	26
38	Cross-talk between clathrin-dependent post-Golgi trafficking and clathrin-mediated endocytosis in <i>Arabidopsis</i> root cells. <i>Plant Cell</i> , 2021, 33, 3057-3075.	3.1	24
39	Clathrin regulates blue light-triggered lateral auxin distribution and hypocotyl phototropism in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 165-176.	2.8	21
40	Bridging the divide between cytokinesis and cell expansion. <i>Current Opinion in Plant Biology</i> , 2007, 10, 607-615.	3.5	20
41	Preparation of Enriched Plant Clathrin-Coated Vesicles by Differential and Density Gradient Centrifugation. <i>Methods in Molecular Biology</i> , 2014, 1209, 163-177.	0.4	20
42	Experimental toolbox for quantitative evaluation of clathrin-mediated endocytosis in the plant model <i>Arabidopsis</i> . <i>Journal of Cell Science</i> , 2020, 133, .	1.2	17
43	ADAPTOR PROTEIN-1 complex-mediated post-Golgi trafficking is critical for pollen wall development in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2022, 235, 472-487.	3.5	16
44	Syntaxin of plants31 (SYP31) and SYP32 is essential for Golgi morphology maintenance and pollen development. <i>Plant Physiology</i> , 2021, 186, 330-343.	2.3	15
45	DYNAMIN-RELATED PROTEIN DRP1A functions with DRP2B in plant growth, flg22-immune responses, and endocytosis. <i>Plant Physiology</i> , 2021, 185, 1986-2002.	2.3	14
46	<i>Arabidopsis</i> dynamin-related protein 1A polymers bind, but do not tubulate, liposomes. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 734-739.	1.0	10
47	Advances in structural, spatial, and temporal mechanics of plant endocytosis. <i>FEBS Letters</i> , 2022, 596, 2269-2287.	1.3	6
48	The Plant Cell Introduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. <i>Plant Cell</i> , 2015, , tpc.15.00862.	3.1	1