

Sebastian Y Bednarek

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49 papers	4,371 citations	32 h-index	51 g-index
51 ext. papers	5,799 ext. citations	9.9 avg, IF	5.37 L-index

#	Paper	IF	Citations
49	TrackMate: An open and extensible platform for single-particle tracking. <i>Methods</i> , 2017 , 115, 80-90	4.6	1276
48	ABP1 mediates auxin inhibition of clathrin-dependent endocytosis in Arabidopsis. <i>Cell</i> , 2010 , 143, 111-21	56.2	344
47	The Arabidopsis Rab GTPase RabA4b localizes to the tips of growing root hair cells. <i>Plant Cell</i> , 2004 , 16, 1589-603	11.6	204
46	Variable-angle epifluorescence microscopy: a new way to look at protein dynamics in the plant cell cortex. <i>Plant Journal</i> , 2008 , 53, 186-96	6.9	176
45	Dynamics of Arabidopsis dynamin-related protein 1C and a clathrin light chain at the plasma membrane. <i>Plant Cell</i> , 2008 , 20, 1363-80	11.6	170
44	The TPLATE adaptor complex drives clathrin-mediated endocytosis in plants. <i>Cell</i> , 2014 , 156, 691-704	56.2	167
43	Members of the Arabidopsis dynamin-like gene family, ADL1, are essential for plant cytokinesis and polarized cell growth. <i>Plant Cell</i> , 2003 , 15, 899-913	11.6	139
42	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, 4453-8	11.5	136
41	Three-Dimensional Analysis of Syncytial-Type Cell Plates during Endosperm Cellularization Visualized by High Resolution Electron Tomography. <i>Plant Cell</i> , 2001 , 13, 2033-2051	11.6	131
40	Clathrin light chains regulate clathrin-mediated trafficking, auxin signaling, and development in Arabidopsis. <i>Plant Cell</i> , 2013 , 25, 499-516	11.6	113
39	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	6.6	96
38	Characterization of AtCDC48. Evidence for multiple membrane fusion mechanisms at the plane of cell division in plants. <i>Plant Physiology</i> , 2002 , 130, 1241-53	6.6	85
37	Cytoskeletal and membrane dynamics during higher plant cytokinesis. <i>New Phytologist</i> , 2013 , 197, 1039-48	10.57	78
36	The Plant Cell Introduces Breakthrough Reports: A New Forum for Cutting-Edge Plant Research. <i>Plant Cell</i> , 2015 , tpc.15.00862	11.6	78
35	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, 1590-602	6.6	78
34	The dynamin-like protein ADL1C is essential for plasma membrane maintenance during pollen maturation. <i>Plant Journal</i> , 2003 , 35, 1-15	6.9	78
33	SCD1 is required for cytokinesis and polarized cell expansion in Arabidopsis thaliana [corrected]. <i>Development (Cambridge)</i> , 2003 , 130, 4011-24	6.6	75

32	NPSN11 is a cell plate-associated SNARE protein that interacts with the syntaxin KNOLLE. <i>Plant Physiology</i> , 2002 , 129, 530-9	6.6	73
31	Dynamin and cytokinesis. <i>Traffic</i> , 2006 , 7, 239-47	5.7	71
30	Cell plate restricted association of DRP1A and PIN proteins is required for cell polarity establishment in Arabidopsis. <i>Current Biology</i> , 2011 , 21, 1055-60	6.3	67
29	The Arabidopsis dynamin-related protein2 family is essential for gametophyte development. <i>Plant Cell</i> , 2010 , 22, 3218-31	11.6	65
28	Loss of Arabidopsis thaliana Dynamin-Related Protein 2B reveals separation of innate immune signaling pathways. <i>PLoS Pathogens</i> , 2014 , 10, e1004578	7.6	64
27	Membrane trafficking during plant cytokinesis. <i>Traffic</i> , 2002 , 3, 621-9	5.7	62
26	Novel functions of Stomatal Cytokinesis-Defective 1 (SCD1) in innate immune responses against bacteria. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23342-50	5.4	53
25	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, 2217-35	11.6	45
24	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	11.5	44
23	Differential Regulation of Clathrin and Its Adaptor Proteins during Membrane Recruitment for Endocytosis. <i>Plant Physiology</i> , 2016 , 171, 215-29	6.6	43
22	Plant dynamin-related protein families DRP1 and DRP2 in plant development. <i>Biochemical Society Transactions</i> , 2010 , 38, 797-806	5.1	40
21	Inroads into Internalization: Five Years of Endocytic Exploration. <i>Plant Physiology</i> , 2018 , 176, 208-218	6.6	40
20	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	11.6	39
19	Mediation of clathrin-dependent trafficking during cytokinesis and cell expansion by Arabidopsis stomatal cytokinesis defective proteins. <i>Plant Cell</i> , 2013 , 25, 3910-25	11.6	35
18	The microtubule plus-end tracking proteins SPR1 and EB1b interact to maintain polar cell elongation and directional organ growth in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 4409-25	11.6	32
17	Budding and braking news about clathrin-mediated endocytosis. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 718-25	9.9	29
16	High lipid order of Arabidopsis cell-plate membranes mediated by sterol and DYNAMIN-RELATED PROTEIN1A function. <i>Plant Journal</i> , 2014 , 80, 745-57	6.9	23
15	Plant AP180 N-Terminal Homolog Proteins Are Involved in Clathrin-Dependent Endocytosis during Pollen Tube Growth in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2019 , 60, 1316-1330	4.9	19

14	Bridging the divide between cytokinesis and cell expansion. <i>Current Opinion in Plant Biology</i> , 2007 , 10, 607-15	9.9	19
13	The VASCULATURE COMPLEXITY AND CONNECTIVITY gene encodes a plant-specific protein required for embryo provascular development. <i>Plant Physiology</i> , 2014 , 166, 889-902	6.6	13
12	Clathrin regulates blue light-triggered lateral auxin distribution and hypocotyl phototropism in Arabidopsis. <i>Plant, Cell and Environment</i> , 2017 , 40, 165-176	8.4	12
11	Preparation of enriched plant clathrin-coated vesicles by differential and density gradient centrifugation. <i>Methods in Molecular Biology</i> , 2014 , 1209, 163-77	1.4	10
10	Arabidopsis dynamin-related protein 1A polymers bind, but do not tubulate, liposomes. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 393, 734-9	3.4	9
9	Experimental toolbox for quantitative evaluation of clathrin-mediated endocytosis in the plant model. <i>Journal of Cell Science</i> , 2020 , 133,	5.3	7
8	Cross-talk between clathrin-dependent post-Golgi trafficking and clathrin-mediated endocytosis in Arabidopsis root cells. <i>Plant Cell</i> , 2021 , 33, 3057-3075	11.6	7
7	DYNAMIN-RELATED PROTEIN DRP1A functions with DRP2B in plant growth, flg22-immune responses, and endocytosis. <i>Plant Physiology</i> , 2021 , 185, 1986-2002	6.6	5
6	Proteomic characterization of isolated Arabidopsis clathrin-coated vesicles reveals evolutionarily conserved and plant-specific components.. <i>Plant Cell</i> , 2022 ,	11.6	5
5	Syntaxin of plants31 (SYP31) and SYP32 is essential for Golgi morphology maintenance and pollen development. <i>Plant Physiology</i> , 2021 , 186, 330-343	6.6	4
4	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,	11.5	4
3	ADAPTOR PROTEIN-1 complex-mediated post-Golgi trafficking is critical for pollen wall development in Arabidopsis.. <i>New Phytologist</i> , 2022 ,	9.8	4
2	Proteomic Characterization of Isolated Arabidopsis Clathrin-Coated Vesicles Reveals Evolutionarily Conserved and Plant Specific Components		2
1	The TPLATE complex mediates membrane bending during plant clathrin-mediated endocytosis		1