Patrick J Hussey

List of Publications by Year
in descending order

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105 papers	10,915 citations	34100 52 h-index	30920 102 g-index
114 all docs	114 docs citations	114 times ranked	15088 citing authors

#	Article	IF	Citations
1	Membrane contact sites and cytoskeletonâ€membrane interactions in autophagy. FEBS Letters, 2022, 596, 2093-2103.	2.8	8
2	The Arabidopsis Râ€SNARE VAMP714 is essential for polarisation of PIN proteins and auxin responses. New Phytologist, 2021, 230, 550-566.	7.3	10
3	A novel plant actin-microtubule bridging complex regulates cytoskeletal and ER structure at ER-PM contact sites. Current Biology, 2021, 31, 1251-1260.e4.	3.9	37
4	NETWORKED2â€subfamily proteins regulate the cortical actin cytoskeleton of growing pollen tubes and polarised pollen tube growth. New Phytologist, 2021, 231, 152-164.	7.3	11
5	Autophagosome Biogenesis in Plants: An Actin Cytoskeleton Perspective. Trends in Plant Science, 2020, 25, 850-858.	8.8	11
6	MTV proteins unveil ER- and microtubule-associated compartments in the plant vacuolar trafficking pathway. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9884-9895.	7.1	23
7	Leaves of isopreneâ€emitting tobacco plants maintain PSII stability at high temperatures. New Phytologist, 2019, 223, 1307-1318.	7.3	38
8	Plant ER-PM Contact Sites in Endocytosis and Autophagy: Does the Local Composition of Membrane Phospholipid Play a Role?. Frontiers in Plant Science, 2019, 10, 23.	3.6	13
9	Plant AtEH/Pan1 proteins drive autophagosome formation at ER-PM contact sites with actin and endocytic machinery. Nature Communications, 2019, 10, 5132.	12.8	86
10	Epidermal expression of a sterol biosynthesis gene regulates root growth by a non-cell autonomous mechanism inArabidopsis. Development (Cambridge), 2018, 145, .	2.5	14
11	Characterization of Proteins Localized to Plant ER-PM Contact Sites. Methods in Molecular Biology, 2018, 1691, 23-31.	0.9	4
12	An Immune-Responsive Cytoskeletal-Plasma Membrane Feedback Loop in Plants. Current Biology, 2018, 28, 2136-2144.e7.	3.9	32
13	Plant Endoplasmic Reticulumâ€“Plasma Membrane Contact Sites. Trends in Plant Science, 2017, 22, 289-297.	8.8	122
14	Actinâ€“membrane interactions mediated by <scp>NETWORKED</scp>2 in Arabidopsis pollen tubes through associations with Pollen Receptorâ€Like Kinase 4 and 5. New Phytologist, 2017, 216, 1170-1180.	7.3	22
15	Connecting membranes to the actin cytoskeleton. Current Opinion in Plant Biology, 2017, 40, 71-76.	7.1	26
16	Microcompartmentation of cytosolic aldolase by interaction with the actin cytoskeleton in Arabidopsis. Journal of Experimental Botany, 2017, 68, 885-898.	4.8	16
17	NETWORKED 3B: a novel protein in the actin cytoskeleton-endoplasmic reticulum interaction. Journal of Experimental Botany, 2017, 68, 1441-1450.	4.8	29
18	<scp>EXTRA SPINDLE POLES</scp> (Separase) controls anisotropic cell expansion in Norway spruce (Picea abies) embryos independently of its role in anaphase progression. New Phytologist, 2016, 212, 232-243.	7.3	11

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19	Plant <scp>VAP</scp>27 proteins: domain characterization, intracellular localization and role in plant development. New Phytologist, 2016, 210, 1311-1326.	7.3	110
20	Arabidopsis SYT1 maintains stability of cortical endoplasmic reticulum networks and VAP27-1-enriched endoplasmic reticulumâ€“plasma membrane contact sites. Journal of Experimental Botany, 2016, 67, 6161-6171.	4.8	84
21	Arabidopsis NAP1 Regulates the Formation of Autophagosomes. Current Biology, 2016, 26, 2060-2069.	3.9	83
22	Interactions between plant endomembrane systems and the actin cytoskeleton. Frontiers in Plant Science, 2015, 6, 422.	3.6	35
23	Blobs and curves: object-based colocalisation for plant cells. Functional Plant Biology, 2015, 42, 471.	2.1	5
24	Dissecting the regulation of pollen tube growth by modeling the interplay of hydrodynamics, cell wall and ion dynamics. Frontiers in Plant Science, 2014, 5, 392.	3.6	18
25	The evolution of the actin binding NET superfamily. Frontiers in Plant Science, 2014, 5, 254.	3.6	27
26	The Microtubule Plus-End Tracking Proteins SPR1 and EB1b Interact to Maintain Polar Cell Elongation and Directional Organ Growth in Arabidopsis Â. Plant Cell, 2014, 26, 4409-4425.	6.6	52
27	Elucidating the regulation of complex signalling systems in plant cells. Biochemical Society Transactions, 2014, 42, 219-223.	3.4	4
28	The Plant Cytoskeleton, NET3C, and VAP27 Mediate the Link between the Plasma Membrane and Endoplasmic Reticulum. Current Biology, 2014, 24, 1397-1405.	3.9	180
29	The Caspase-Related Protease Separase (EXTRA SPINDLE POLES) Regulates Cell Polarity and Cytokinesis inArabidopsisÂ Â. Plant Cell, 2013, 25, 2171-2186.	6.6	40
30	The ARP2/3 Complex Mediates Guard Cell Actin Reorganization and Stomatal Movement in Arabidopsis. Plant Cell, 2012, 24, 2031-2040.	6.6	74
31	A Nucleotide Phosphatase Activity in the Nucleotide Binding Domain of an Orphan Resistance Protein from Rice. Journal of Biological Chemistry, 2012, 287, 4023-4032.	3.4	22
32	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
33	A Superfamily of Actin-Binding Proteins at the Actin-Membrane Nexus of Higher Plants. Current Biology, 2012, 22, 1595-1600.	3.9	115
34	Prieurianin/endosidinâ€ƒ1 is an actinâ€stabilizing small molecule identified from a chemical genetic screen for circadian clock effectors in Arabidopsis thaliana. Plant Journal, 2012, 71, 338-352.	5.7	53
35	The Origin of Phragmoplast Asymmetry. Current Biology, 2011, 21, 1924-1930.	3.9	41
36	Modelling dynamic plant cells. Current Opinion in Plant Biology, 2010, 13, 744-749.	7.1	16

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37	BODIPY probes to study peroxisome dynamics in vivo. Plant Journal, 2010, 62, 529-538.	5.7	34
38	A Compartmental Model Analysis of Integrative and Self-Regulatory Ion Dynamics in Pollen Tube Growth. PLoS ONE, 2010, 5, e13157.	2.5	31
39	The plant formin AtFH4 interacts with both actin and microtubules, and contains a newly identified microtubule-binding domain. Journal of Cell Science, 2010, 123, 1209-1215.	2.0	117
40	Strategies of actin reorganisation in plant cells. Journal of Cell Science, 2010, 123, 3019-3028.	2.0	100
41	Strategies of actin reorganisation in plant cells. Journal of Cell Science, 2010, 123, 3029-3029.	2.0	8
42	A Thermodynamic Model of Microtubule Assembly and Disassembly. PLoS ONE, 2009, 4, e6378.	2.5	15
43	Enzyme activities and subcellular localization of members of the Arabidopsis glutathione transferase superfamily. Journal of Experimental Botany, 2009, 60, 1207-1218.	4.8	260
44	ArabidopsisRab-E GTPases exhibit a novel interaction with a plasma-membrane phosphatidylinositol-4-phosphate 5-kinase. Journal of Cell Science, 2009, 122, 4383-4392.	2.0	60
45	Actin-Depolymerizing Factor2-Mediated Actin Dynamics Are Essential for Root-Knot Nematode Infection ofArabidopsisÂ Â. Plant Cell, 2009, 21, 2963-2979.	6.6	87
46	The C-Terminal Variable Region Specifies the Dynamic Properties ofArabidopsisMicrotubule-Associated Protein MAP65 Isotypes. Plant Cell, 2009, 20, 3346-3358.	6.6	88
47	Tudor staphylococcal nuclease is an evolutionarily conserved component of the programmed cell death degradome. Nature Cell Biology, 2009, 11, 1347-1354.	10.3	192
48	Immunolocalization of Proteins in Somatic Embryos. Methods in Molecular Biology, 2008, 427, 157-171.	0.9	6
49	The POK/AtVPS52 protein localizes to several distinct post-Golgi compartments in sporophytic and gametophytic cells. Journal of Experimental Botany, 2008, 59, 3087-3098.	4.8	23
50	ArabidopsisCAP1 â€“ a key regulator of actin organisation and development. Journal of Cell Science, 2007, 120, 2609-2618.	2.0	70
51	The role of Arabidopsis SCAR genes in ARP2-ARP3-dependent cell morphogenesis. Development (Cambridge), 2007, 134, 967-977.	2.5	91
52	A novel role for the nuclear membrane protein emerin in association of the centrosome to the outer nuclear membrane. Journal of Cell Biology, 2007, 178, 897-904.	5.2	179
53	ACTIN BINDING PROTEIN29 from Lilium Pollen Plays an Important Role in Dynamic Actin Remodeling. Plant Cell, 2007, 19, 1930-1946.	6.6	95
54	Actin organization and root hair development are disrupted by ethanolâ€induced overexpression of Arabidopsis actin interacting protein 1 (AIP1). New Phytologist, 2007, 174, 57-62.	7.3	39

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55	CONTROL OF THE ACTIN CYTOSKELETON IN PLANT CELL GROWTH. Annual Review of Plant Biology, 2006, 57, 109-125.	18.7	277
56	Oscillatory Increases in Alkalinity Anticipate Growth and May Regulate Actin Dynamics in Pollen Tubes of Lily. Plant Cell, 2006, 18, 2182-2193.	6.6	112
57	The POLARIS Peptide of Arabidopsis Regulates Auxin Transport and Root Growth via Effects on Ethylene Signaling. Plant Cell, 2006, 18, 3058-3072.	6.6	146
58	Control of the AtMAP65-1 interaction with microtubules through the cell cycle. Journal of Cell Science, 2006, 119, 3227-3237.	2.0	141
59	Arabidopsis group Ie formins localize to specific cell membrane domains, interact with actinâ€binding proteins and cause defects in cell expansion upon aberrant expression. New Phytologist, 2005, 168, 529-540.	7.3	122
60	Arp2/3 and SCAR: plants move to the fore. Nature Reviews Molecular Cell Biology, 2005, 6, 954-964.	37.0	71
61	A Divergent Cellular Role for the FUSED Kinase Family in the Plant-Specific Cytokinetic Phragmoplast. Current Biology, 2005, 15, 2107-2111.	3.9	98
62	A Rab-E GTPase Mutant Acts Downstream of the Rab-D Subclass in Biosynthetic Membrane Traffic to the Plasma Membrane in Tobacco Leaf Epidermis. Plant Cell, 2005, 17, 2020-2036.	6.6	124
63	Dynamic interaction of NtMAP65-1a with microtubules in vivo. Journal of Cell Science, 2005, 118, 3195-3201.	2.0	55
64	Green Fluorescent Protein-mTalin Causes Defects in Actin Organization and Cell Expansion in Arabidopsis and Inhibits Actin Depolymerizing Factor's Actin Depolymerizing Activity in Vitro. Plant Physiology, 2004, 136, 3990-3998.	4.8	134
65	The Arabidopsis Microtubule-Associated Protein AtMAP65-1: Molecular Analysis of Its Microtubule Bundling Activity. Plant Cell, 2004, 16, 2035-2047.	6.6	199
66	The Actin-Interacting Protein AIP1 Is Essential for Actin Organization and Plant Development. Current Biology, 2004, 14, 145-149.	3.9	159
67	The Plant Microtubule-Associated Protein AtMAP65-3/PLE Is Essential for Cytokinetic Phragmoplast Function. Current Biology, 2004, 14, 412-417.	3.9	194
68	Arabidopsis NAP1 Is Essential for Arp2/3-Dependent Trichome Morphogenesis. Current Biology, 2004, 14, 1410-1414.	3.9	95
69	Arabidopsishomologues of the autophagy protein Atg8 are a novel family of microtubule binding proteins. FEBS Letters, 2004, 567, 302-306.	2.8	80
70	Arp2/3 and â€˜The Shape of things to comeâ€™. Current Opinion in Plant Biology, 2003, 6, 561-567.	7.1	62
71	Re-organisation of the cytoskeleton during developmental programmed cell death inPicea abiesembryos. Plant Journal, 2003, 33, 813-824.	5.7	122
72	Identification of a MAP65 isoform involved in directional expansion of plant cells. FEBS Letters, 2003, 534, 161-163.	2.8	30

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73	Regulation of the Pollen-Specific Actin-Depolymerizing Factor LlADF1. Plant Cell, 2002, 14, 2915-2927.	6.6	160
74	Actinâ€“binding proteins in theArabidopsisgenome database: properties of functionally distinct plant actinâ€“depolymerizing factors/cofilins. Philosophical Transactions of the Royal Society B: Biological Sciences, 2002, 357, 791-798.	4.0	73
75	The ADF/cofilin family: actin-remodeling proteins. Genome Biology, 2002, 3, reviews3007.1.	9.6	261
76	Formins: intermediates in signal-transduction cascades that affect cytoskeletal reorganization. Trends in Plant Science, 2002, 7, 492-498.	8.8	149
77	Microtubules do the twist. Nature, 2002, 417, 128-129.	27.8	14
78	MOR1/GEM1 has an essential role in the plant-specific cytokinetic phragmoplast. Nature Cell Biology, 2002, 4, 711-714.	10.3	220
79	The plant cytoskeleton: recent advances in the study of the plant microtubule-associated proteins MAP-65, MAP-190 and the Xenopus MAP215-like protein, MOR1. Plant Molecular Biology, 2002, 50, 915-924.	3.9	139
80	Plant microtubule-associated proteins: the HEAT is off in temperature-sensitive mor1. Trends in Plant Science, 2001, 6, 389-392.	8.8	28
81	Phosphorylation of plant actin-depolymerising factor by calmodulin-like domain protein kinase. FEBS Letters, 2001, 499, 97-100.	2.8	97
82	TOXIN EVOLUTION IN SCORPION VENOM: EVIDENCE FOR TOXIN DIVERGENCE UNDER STRONG NEGATIVE SELECTION INLEIURUS QUINQUESTRIATUSSUBSPECIES. Toxin Reviews, 2001, 20, 229-244.	1.5	11
83	Interaction of elongation factor 1? fromZea mays (ZmEF-1?) with F-actin and interplay with the maize actin severing protein, ZmADF3. Cytoskeleton, 2001, 49, 104-111.	4.4	28
84	Interaction of pollenâ€specific actinâ€depolymerizing factor with actin. Plant Journal, 2001, 25, 203-212.	5.7	3
85	Interaction of pollen-specific actin-depolymerizing factor with actin. Plant Journal, 2001, 25, 203-212.	5.7	53
86	A new class of microtubule-associated proteins in plants. Nature Cell Biology, 2000, 2, 750-753.	10.3	141
87	Double mutation in Eleusine indica alpha-tubulin increases the resistance of transgenic maize calli to dinitroaniline and phosphorothioamidate herbicides. Plant Journal, 1999, 18, 669-674.	5.7	40
88	Dinitroaniline herbicide-resistant transgenic tobacco plants generated by co-overexpression of a mutant Î±-tubulin and a Î²-tubulin. Nature Biotechnology, 1999, 17, 712-716.	17.5	41
89	Dinitroaniline herbicide resistance and the microtubule cytoskeleton. Trends in Plant Science, 1999, 4, 112-116.	8.8	104
90	Herbicide resistance caused by spontaneous mutation of the cytoskeletal protein tubulin. Nature, 1998, 393, 260-263.	27.8	152

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91	Immunological homologues of theArabidopsis thaliana ?1 tubulin are polyglutamylated inNicotiana tabacum. Protoplasma, 1998, 203, 138-143.	2.1	7
92	Ser6 in the maize actin-depolymerizing factor, ZmADF3, is phosphorylated by a calcium-stimulated protein kinase and is essential for the control of functional activity. Plant Journal, 1998, 14, 187-193.	5.7	128
93	Microinjection of pollenâ€specific actinâ€depolymerizing factor, ZmADF1, reorientates Fâ€actin strands inTradescantiastamen hair cells. Plant Journal, 1998, 14, 353-357.	5.7	49
94	Suppression of endogenous alpha and beta tubulin synthesis in transgenic maize calli overexpressing alpha and beta tubulins. Plant Journal, 1998, 16, 297-304.	5.7	42
95	Interaction of maize actin-depolymerising factor with actin and phosphoinositides and its inhibition of plant phospholipase C.. Plant Journal, 1998, 16, 689-696.	5.7	106
96	Pollen Profilin Function Depends on Interaction with Proline-Rich Motifs. Plant Cell, 1998, 10, 981-993.	6.6	102
97	The proliferating cell nuclear antigen (PCNA) gene family in Zea mays is composed of two members that have similar expression programmes. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1997, 1353, 1-6.	2.4	24
98	The maize actin-depolymerizing factor, ZmADF3, redistributes to the growing tip of elongating root hairs and can be induced to translocate into the nucleus with actin. Plant Journal, 1997, 12, 1035-1043.	5.7	121
99	Molecular cloning of a maize cDNA clone encoding a putative proliferating cell nuclear antigen. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1995, 1260, 119-121.	2.4	22
100	Comparison of the in vitro translated polypeptides from maize shoot, pollen and germinated pollen mRNAs. FEBS Letters, 1994, 350, 117-121.	2.8	4
101	The profilin multigene family of maize: differential expression of three isoforms. Plant Journal, 1993, 4, 631-641.	5.7	163
102	Î±-Tubulin gene family of maize (Zea mays L.). Journal of Molecular Biology, 1992, 227, 81-96.	4.2	74
103	Multiple isotypes of Î±- and Î²-tubulin in the plant Phaseolus vulgaris. FEBS Letters, 1985, 181, 113-118.	2.8	37
104	The Cytoskeleton and Signal Transduction: Role and Regulation of Plant Actin- and Microtubule-Binding Proteins. , 0, , 244-272.		2
105	A Novel Plant Actin-Microtubule Bridging Complex Regulates Cytoskeletal and ER Structure at Endoplasmic Reticulum-Plasma Membrane Contact Sites (EPCS). SSRN Electronic Journal, 0, , .	0.4	1