

# David A Collings

## 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.

75  
papers

2,901  
citations

29  
h-index

53  
g-index

80  
ext. papers

3,202  
ext. citations

5.5  
avg, IF

4.9  
L-index

#	Paper	IF	Citations
75	Three-dimensionally ordered array of air bubbles in a polymer film. <i>Science</i> , <b>2001</b> , 292, 79-83	33.3	783
74	A 90-kD phospholipase D from tobacco binds to microtubules and the plasma membrane. <i>Plant Cell</i> , <b>2001</b> , 13, 2143-58	11.6	218
73	The effects of the phospholipase D-antagonist 1-butanol on seedling development and microtubule organisation in Arabidopsis. <i>Plant and Cell Physiology</i> , <b>2003</b> , 44, 687-96	4.9	123
72	MICROTUBULE ORGANIZATION 1 regulates structure and function of microtubule arrays during mitosis and cytokinesis in the Arabidopsis root. <i>Plant Physiology</i> , <b>2006</b> , 140, 102-14	6.6	113
71	Dragonfly cyclovirus, a novel single-stranded DNA virus discovered in dragonflies (Odonata: Anisoptera). <i>Journal of General Virology</i> , <b>2011</b> , 92, 1302-1308	4.9	88
70	Molecular motors in higher plants. <i>Trends in Plant Science</i> , <b>1997</b> , 2, 29-37	13.1	80
69	Plant nuclei can contain extensive grooves and invaginations. <i>Plant Cell</i> , <b>2000</b> , 12, 2425-2440	11.6	80
68	Arabidopsis dynamin-like protein DRP1A: a null mutant with widespread defects in endocytosis, cellulose synthesis, cytokinesis, and cell expansion. <i>Journal of Experimental Botany</i> , <b>2008</b> , 59, 361-76	7	72
67	Demonstration of prominent actin filaments in the root columella. <i>Planta</i> , <b>2001</b> , 212, 392-403	4.7	69
66	Hypersensitivity to cytoskeletal antagonists demonstrates microtubule-microfilament cross-talk in the control of root elongation in Arabidopsis thaliana. <i>New Phytologist</i> , <b>2006</b> , 170, 275-90	9.8	68
65	Cytoplasmic pH dynamics in maize pulvinal cells induced by gravity vector changes. <i>Plant Physiology</i> , <b>2001</b> , 127, 119-30	6.6	62
64	Ionic Current Changes Associated with the Gravity-Induced Bending Response in Roots of Zea mays L. <i>Plant Physiology</i> , <b>1992</b> , 100, 1417-26	6.6	59
63	Plasma membrane-associated actin in bright yellow 2 tobacco cells. Evidence for interaction with microtubules. <i>Plant Physiology</i> , <b>1998</b> , 118, 917-28	6.6	58
62	Endoplasmic reticulum targeted GFP reveals ER organization in tobacco NT-1 cells during cell division. <i>Plant Physiology and Biochemistry</i> , <b>2006</b> , 44, 95-105	5.4	47
61	Life in the fast lane: actin-based motility of plant peroxisomes. <i>Canadian Journal of Botany</i> , <b>2002</b> , 80, 430-441		47
60	Cell-to-cell transport via the lumen of the endoplasmic reticulum. <i>Plant Journal</i> , <b>2011</b> , 66, 806-17	6.9	45
59	The global distribution of reveals little evidence for frequent recent, human-mediated long distance dispersal events. <i>Virus Evolution</i> , <b>2015</b> , 1, vev009	3.7	38

58	Developmental reorientation of transverse cortical microtubules to longitudinal directions: a role for actomyosin-based streaming and partial microtubule-membrane detachment. <i>Plant Journal</i> , <b>2008</b> , 56, 116-31	6.9	38
57	The distributional changes and role of microtubules in Nod factor-challenged <i>Medicago sativa</i> root hairs. <i>Planta</i> , <b>2003</b> , 218, 276-87	4.7	38
56	Actin in living and fixed characean internodal cells: identification of a cortical array of fine actin strands and chloroplast actin rings. <i>Protoplasma</i> , <b>1996</b> , 190, 25-38	3.4	37
55	The association of peroxisomes with the developing cell plate in dividing onion root cells depends on actin microfilaments and myosin. <i>Planta</i> , <b>2003</b> , 218, 204-16	4.7	36
54	Actin microfilament and microtubule distribution patterns in the expanding root of <i>Arabidopsis thaliana</i> . <i>Canadian Journal of Botany</i> , <b>2005</b> , 83, 579-590		35
53	Cytochalasin Rearranges Cortical Actin of the Alga <i>Nitella</i> into Short, Stable Rods. <i>Plant and Cell Physiology</i> , <b>1995</b> , 36, 765-772	4.9	34
52	Evidence of inter-component recombination, intra-component recombination and reassortment in banana bunchy top virus. <i>Journal of General Virology</i> , <b>2012</b> , 93, 1103-1119	4.9	33
51	Growth dynamics and cytoskeleton organization during stem maturation and gravity-induced stem bending in <i>Zea mays</i> L. <i>Planta</i> , <b>1998</b> , 207, 246-58	4.7	33
50	Elongation factor 1 alpha is a component of the subcortical actin bundles of characean algae. <i>Cell Biology International</i> , <b>1994</b> , 18, 1019-24	4.5	33
49	Evidence that dicot-infecting mastreviruses are particularly prone to inter-species recombination and have likely been circulating in Australia for longer than in Africa and the Middle East. <i>Virology</i> , <b>2013</b> , 444, 282-91	3.6	31
48	Anterior thalamic lesions reduce spine density in both hippocampal CA1 and retrosplenial cortex, but enrichment rescues CA1 spines only. <i>Hippocampus</i> , <b>2014</b> , 24, 1232-47	3.5	31
47	Anterior thalamic nuclei lesions and recovery of function: Relevance to cognitive thalamus. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2015</b> , 54, 145-60	9	30
46	Anti-tropomyosin antibodies co-localise with actin microfilaments and label plasmodesmata. <i>European Journal of Cell Biology</i> , <b>2009</b> , 88, 357-69	6.1	29
45	Crossed-Wires: Interactions and Cross-Talk Between the Microtubule and Microfilament Networks in Plants <b>2008</b> , 47-79		28
44	A mutation in an <i>Arabidopsis</i> ribose 5-phosphate isomerase reduces cellulose synthesis and is rescued by exogenous uridine. <i>Plant Journal</i> , <b>2006</b> , 48, 606-18	6.9	27
43	Actin-microtubule interactions in the alga <i>Nitella</i> : analysis of the mechanism by which microtubule depolymerization potentiates cytochalasin's effects on streaming. <i>Protoplasma</i> , <b>1996</b> , 191, 178-190	3.4	26
42	New dynamics in an old friend: dynamic tubular vacuoles radiate through the cortical cytoplasm of red onion epidermal cells. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 1826-39	4.9	24
41	Methods for the very early selection of <i>Pinus radiata</i> D. Don. for solid wood products. <i>Annals of Forest Science</i> , <b>2013</b> , 70, 439-449	3.1	23

40	Uptake and persistence of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in human monocytes. <i>Infection and Immunity</i> , <b>2012</b> , 80, 3768-75	3.7	21
39	Evidence of multiple introductions of beak and feather disease virus into the Pacific islands of Nouvelle-Caledonie (New Caledonia). <i>Journal of General Virology</i> , <b>2012</b> , 93, 2466-2472	4.9	21
38	An elastomeric micropillar platform for the study of protrusive forces in hyphal invasion. <i>Lab on A Chip</i> , <b>2017</b> , 17, 3643-3653	7.2	20
37	Pontamine fast scarlet 4B: a new fluorescent dye for visualising cell wall organisation in radiata pine tracheids. <i>Wood Science and Technology</i> , <b>2013</b> , 47, 59-75	2.5	19
36	Cortical Actin Interacts with the Plasma Membrane and Microtubules <b>2000</b> , 145-163		17
35	Australian monocot-infecting mastrevirus diversity rivals that in Africa. <i>Virus Research</i> , <b>2012</b> , 169, 127-366.4		16
34	Subcellular localization of transiently expressed fluorescent fusion proteins. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1069, 227-58	1.4	16
33	Sucrose regulates wall ingrowth deposition in phloem parenchyma transfer cells in <i>Arabidopsis</i> via affecting phloem loading activity. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 4690-4702	7	14
32	The N-terminal TOG domain of <i>Arabidopsis</i> MOR1 modulates affinity for microtubule polymers. <i>Journal of Cell Science</i> , <b>2012</b> , 125, 4812-21	5.3	14
31	A temperature-sensitive allele of a putative mRNA splicing helicase down-regulates many cell wall genes and causes radial swelling in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , <b>2016</b> , 91, 1-13	4.6	12
30	Induction of anthocyanin in the inner epidermis of red onion leaves by environmental stimuli and transient expression of transcription factors. <i>Plant Cell Reports</i> , <b>2017</b> , 36, 987-1000	5.1	10
29	The life of phi: the development of phi thickenings in roots of the orchids of the genus <i>Miltoniopsis</i> . <i>Planta</i> , <b>2015</b> , 241, 489-506	4.7	9
28	Developmental Biology and Induction of Phi Thickenings by Abiotic Stress in Roots of the Brassicaceae. <i>Plants</i> , <b>2018</b> , 7,	4.5	7
27	Pontamine fast scarlet 4B bifluorescence and measurements of cellulose microfibril angles. <i>Journal of Microscopy</i> , <b>2017</b> , 268, 13-27	1.9	7
26	Anthocyanin in the Vacuole of Red Onion Epidermal Cells Quenches Other Fluorescent Molecules. <i>Plants</i> , <b>2019</b> , 8,	4.5	7
25	Phi thickenings in roots: novel secondary wall structures responsive to biotic and abiotic stresses. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 4631-4642	7	6
24	Student application for special consideration for examination performance following a natural disaster. <i>Assessment and Evaluation in Higher Education</i> , <b>2018</b> , 43, 260-271	3.1	6
23	A 90-kD Phospholipase D from Tobacco Binds to Microtubules and the Plasma Membrane. <i>Plant Cell</i> , <b>2001</b> , 13, 2143	11.6	6

22	Microtubule and actin filament organization during acentral divisions in potato suspension culture cells. <i>Protoplasma</i> , <b>1999</b> , 207, 158-168	3.4	6
21	Shaking up biology Our experiences teaching cell biology and biochemistry to a first year undergraduate class through the Canterbury (New Zealand) earthquakes. <i>Journal of Biological Education</i> , <b>2019</b> , 53, 236-249	0.9	5
20	Expanding beyond the Great Divide: The Cytoskeleton and Axial Growth <b>2018</b> , 83-115		5
19	Super-Resolution Fluorescence Imaging of Arabidopsis thaliana Transfer Cell Wall Ingrowths using Pseudo-Schiff Labelling Adapted for the Use of Different Dyes. <i>Plant and Cell Physiology</i> , <b>2020</b> , 61, 1775-1787	4.9	4
18	Review: More than sweet: New insights into the biology of phloem parenchyma transfer cells in Arabidopsis. <i>Plant Science</i> , <b>2021</b> , 310, 110990	5.3	4
17	Identification and in silico characterisation of defective molecules associated with isolates of banana bunchy top virus. <i>Archives of Virology</i> , <b>2016</b> , 161, 1019-26	2.6	3
16	An estuarine species of the alga Vaucheria (Xanthophyceae) displays an increased capacity for turgor regulation when compared to a freshwater species. <i>Journal of Phycology</i> , <b>2013</b> , 49, 967-78	3	3
15	Detection and mapping of resin canals by image analysis in transverse sections of mechanically perturbed, young Pinus radiata trees. <i>IAWA Journal</i> , <b>2017</b> , 38, 170-181	2.3	3
14	A model system using confocal fluorescence microscopy for examining real-time intracellular sodium ion regulation. <i>Analytical Biochemistry</i> , <b>2016</b> , 507, 40-6	3.1	3
13	Cell organelles and fluorescence of parenchyma cells in Eucalyptus bosistoana sapwood and heartwood investigated by microscopy. <i>New Zealand Journal of Forestry Science</i> , <b>2018</b> , 48,	1	3
12	Physiological changes during heartwood formation in young Eucalyptus bosistoana trees. <i>IAWA Journal</i> , <b>2018</b> , 39, 382-394	2.3	3
11	ACTIN7 Is Required for Perinuclear Clustering of Chloroplasts during Arabidopsis Protoplast Culture. <i>Plants</i> , <b>2020</b> , 9,	4.5	2
10	Optimisation approaches for concurrent transmitted light imaging during confocal microscopy. <i>Plant Methods</i> , <b>2015</b> , 11, 40	5.8	2
9	Genome Sequences of Beak and Feather Disease Virus in Urban Rainbow Lorikeets (Trichoglossus haematodus). <i>Genome Announcements</i> , <b>2015</b> , 3,		2
8	The Cytoskeleton and Co-Ordination of Directional Expansion in a Multicellular Context <b>2006</b> , 217-248		2
7	Plasma Membrane Ghosts Form Differently When Produced from Microtubule-Free Tobacco BY-2 Cells. <i>Plant and Cell Physiology</i> , <b>1999</b> , 40, 36-46	4.9	2
6	Imaging Spiral Grain in Pinus radiata with X-ray Microtomography <b>2017</b> , 29-36		1
5	Plant Nuclei Can Contain Extensive Grooves and Invaginations. <i>Plant Cell</i> , <b>2000</b> , 12, 2425	11.6	1

4	The Induction and Roles Played by Phi Thickenings in Orchid Roots. <i>Plants</i> , <b>2019</b> , 8,	4.5	1
3	The formation of interlocked grain in African mahogany ( <i>Khaya</i> spp.) analysed by X-ray computed microtomography. <i>Tree Physiology</i> , <b>2021</b> , 41, 1542-1557	4.2	1
2	Phi Thickenings: Their History, Current Status and Role(s) in Mechanically Strengthening the Plant Root. <i>Progress in Botany Fortschritte Der Botanik</i> , <b>2020</b> , 1	0.6	1
1	Induction of compression wood inhibits development of spiral grain in radiata pine. <i>IAWA Journal</i> , <b>2022</b> , 1-27	0	0