

# Bruce L Goode

## List of Publications by Year in descending order

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114  
papers

9,428  
citations

38742

50  
h-index

42399

92  
g-index

121  
all docs

121  
docs citations

121  
times ranked

6461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanism and Function of Formins in the Control of Actin Assembly. <i>Annual Review of Biochemistry</i> , 2007, 76, 593-627.	11.1	706
2	Unleashing formins to remodel the actin and microtubule cytoskeletons. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 62-74.	37.0	449
3	An actin nucleation mechanism mediated by Bni1 and Profilin. <i>Nature Cell Biology</i> , 2002, 4, 626-631.	10.3	431
4	The Yeast Actin Cytoskeleton: from Cellular Function to Biochemical Mechanism. <i>Microbiology and Molecular Biology Reviews</i> , 2006, 70, 605-645.	6.6	329
5	Crystal Structures of a Formin Homology-2 Domain Reveal a Tethered Dimer Architecture. <i>Cell</i> , 2004, 116, 711-723.	28.9	325
6	Formins at a glance. <i>Journal of Cell Science</i> , 2013, 126, 1-7.	2.0	276
7	Actin nucleation and elongation factors: mechanisms and interplay. <i>Current Opinion in Cell Biology</i> , 2009, 21, 28-37.	5.4	270
8	A Conserved Mechanism for Bni1- and mDia1-induced Actin Assembly and Dual Regulation of Bni1 by Bud6 and Profilin. <i>Molecular Biology of the Cell</i> , 2004, 15, 896-907.	2.1	240
9	Coronin Promotes the Rapid Assembly and Cross-linking of Actin Filaments and May Link the Actin and Microtubule Cytoskeletons in Yeast. <i>Journal of Cell Biology</i> , 1999, 144, 83-98.	5.2	209
10	The formin mDia2 stabilizes microtubules independently of its actin nucleation activity. <i>Journal of Cell Biology</i> , 2008, 181, 523-536.	5.2	209
11	Actin and Endocytosis in Budding Yeast. <i>Genetics</i> , 2015, 199, 315-358.	2.9	203
12	Activation of the Arp2/3 Complex by the Actin Filament Binding Protein Abp1p. <i>Journal of Cell Biology</i> , 2001, 153, 627-634.	5.2	185
13	Direct regulation of Arp2/3 complex activity and function by the actin binding protein coronin. <i>Journal of Cell Biology</i> , 2002, 159, 993-1004.	5.2	179
14	Accelerated actin filament polymerization from microtubule plus ends. <i>Science</i> , 2016, 352, 1004-1009.	12.6	172
15	Coordinated Regulation of Actin Filament Turnover by a High-Molecular-Weight Srv2/CAP Complex, Cofilin, Profilin, and Aip1. <i>Current Biology</i> , 2003, 13, 2159-2169.	3.9	164
16	Conformational changes in the Arp2/3 complex leading to actin nucleation. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 26-31.	8.2	159
17	Yeast Eps15-like endocytic protein, Pan1p, activates the Arp2/3 complex. <i>Nature Cell Biology</i> , 2001, 3, 687-690.	10.3	158
18	Adenomatous polyposis coli protein nucleates actin assembly and synergizes with the formin mDia1. <i>Journal of Cell Biology</i> , 2010, 189, 1087-1096.	5.2	154

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19	Cofilin cooperates with fascin to disassemble filopodial actin filaments. <i>Journal of Cell Science</i> , 2011, 124, 3305-3318.	2.0	146
20	Rocket Launcher Mechanism of Collaborative Actin Assembly Defined by Single-Molecule Imaging. <i>Science</i> , 2012, 336, 1164-1168.	12.6	146
21	Negative Regulation of Yeast WASp by Two SH3 Domain-Containing Proteins. <i>Current Biology</i> , 2003, 13, 1000-1008.	3.9	138
22	Differential Activities and Regulation of <i>Saccharomyces cerevisiae</i> Formin Proteins Bni1 and Bnr1 by Bud6. <i>Journal of Biological Chemistry</i> , 2005, 280, 28023-28033.	3.4	134
23	Coronin Switches Roles in Actin Disassembly Depending on the Nucleotide State of Actin. <i>Molecular Cell</i> , 2009, 34, 364-374.	9.7	124
24	Regulation of the Cortical Actin Cytoskeleton in Budding Yeast by Twinfilin, a Ubiquitous Actin Monomer-sequestering Protein. <i>Journal of Cell Biology</i> , 1998, 142, 723-733.	5.2	115
25	The Formin Daam1 and Fascin Directly Collaborate to Promote Filopodia Formation. <i>Current Biology</i> , 2013, 23, 1373-1379.	3.9	109
26	Aip1 and Cofilin Promote Rapid Turnover of Yeast Actin Patches and Cables: A Coordinated Mechanism for Severing and Capping Filaments. <i>Molecular Biology of the Cell</i> , 2006, 17, 2855-2868.	2.1	107
27	High-speed depolymerization at actin filament ends jointly catalysed by Twinfilin and Srv2/CAP. <i>Nature Cell Biology</i> , 2015, 17, 1504-1511.	10.3	105
28	The Formin DAD Domain Plays Dual Roles in Autoinhibition and Actin Nucleation. <i>Current Biology</i> , 2011, 21, 384-390.	3.9	101
29	Three-color single molecule imaging shows WASP detachment from Arp2/3 complex triggers actin filament branch formation. <i>ELife</i> , 2013, 2, e01008.	6.0	101
30	A High-affinity Interaction with ADP-Actin Monomers Underlies the Mechanism and In Vivo Function of Srv2/cyclase-associated Protein. <i>Molecular Biology of the Cell</i> , 2004, 15, 5158-5171.	2.1	100
31	GMF Is a Cofilin Homolog that Binds Arp2/3 Complex to Stimulate Filament Debranching and Inhibit Actin Nucleation. <i>Current Biology</i> , 2010, 20, 861-867.	3.9	99
32	Single-molecule imaging of a three-component ordered actin disassembly mechanism. <i>Nature Communications</i> , 2015, 6, 7202.	12.8	97
33	Pathway of actin filament branch formation by Arp2/3 complex revealed by single-molecule imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1285-1290.	7.1	94
34	Regulated Binding of Adenomatous Polyposis Coli Protein to Actin. <i>Journal of Biological Chemistry</i> , 2007, 282, 12661-12668.	3.4	91
35	<i>Saccharomyces cerevisiae</i> Duo1p and Dam1p, Novel Proteins Involved in Mitotic Spindle Function. <i>Journal of Cell Biology</i> , 1998, 143, 1029-1040.	5.2	90
36	Srv2/cyclase-associated protein forms hexameric<i>shurikens</i> that directly catalyze actin filament severing by cofilin. <i>Molecular Biology of the Cell</i> , 2013, 24, 31-41.	2.1	90

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37	Single-molecule visualization of a formin-capping protein decision complex™ at the actin filament barbed end. <i>Nature Communications</i> , 2015, 6, 8707.	12.8	87
38	Structure of the FH2 Domain of Daam1: Implications for Formin Regulation of Actin Assembly. <i>Journal of Molecular Biology</i> , 2007, 369, 1258-1269.	4.2	84
39	The <i>Saccharomyces cerevisiae</i> Calponin/Transgelin Homolog Scp1 Functions with Fimbrin to Regulate Stability and Organization of the Actin Cytoskeleton. <i>Molecular Biology of the Cell</i> , 2003, 14, 2617-2629.	2.1	83
40	Regulation and Targeting of the Fission Yeast Formin cdc12p in Cytokinesis. <i>Molecular Biology of the Cell</i> , 2008, 19, 2208-2219.	2.1	72
41	Structural basis for mutation-induced destabilization of profilin 1 in ALS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7984-7989.	7.1	71
42	Displacement of Formins from Growing Barbed Ends by Bud14 Is Critical for Actin Cable Architecture and Function. <i>Developmental Cell</i> , 2009, 16, 292-302.	7.0	69
43	GMF Severs Actin-Arp2/3 Complex Branch Junctions by a Cofilin-like Mechanism. <i>Current Biology</i> , 2013, 23, 1037-1045.	3.9	66
44	Profilin Directly Promotes Microtubule Growth through Residues Mutated in Amyotrophic Lateral Sclerosis. <i>Current Biology</i> , 2017, 27, 3535-3543.e4.	3.9	66
45	The F-BAR Protein Syp1 Negatively Regulates WASp-Arp2/3 Complex Activity during Endocytic Patch Formation. <i>Current Biology</i> , 2009, 19, 1979-1987.	3.9	64
46	Formin Proteins: Purification and Measurement of Effects on Actin Assembly. <i>Methods in Enzymology</i> , 2006, 406, 215-234.	1.0	61
47	Mechanism and biological role of profilin-Srv2/CAP interaction. <i>Journal of Cell Science</i> , 2007, 120, 1225-1234.	2.0	61
48	Reconstitution and Dissection of the 600-kDa Srv2/CAP Complex. <i>Journal of Biological Chemistry</i> , 2009, 284, 10923-10934.	3.4	61
49	Adenomatous polyposis coli nucleates actin assembly to drive cell migration and microtubule-induced focal adhesion turnover. <i>Journal of Cell Biology</i> , 2017, 216, 2859-2875.	5.2	60
50	Structural basis of actin monomer re-charging by cyclase-associated protein. <i>Nature Communications</i> , 2018, 9, 1892.	12.8	60
51	Synergy between Cyclase-associated protein and Cofilin accelerates actin filament depolymerization by two orders of magnitude. <i>Nature Communications</i> , 2019, 10, 5319.	12.8	60
52	Mechanism and cellular function of Bud6 as an actin nucleation-promoting factor. <i>Molecular Biology of the Cell</i> , 2011, 22, 4016-4028.	2.1	58
53	The Myosin Passenger Protein Smy1 Controls Actin Cable Structure and Dynamics by Acting as a Formin Damper. <i>Developmental Cell</i> , 2011, 21, 217-230.	7.0	57
54	Structure and activity of full-length formin mDia1. <i>Cytoskeleton</i> , 2012, 69, 393-405.	2.0	55

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55	Structure and Mechanism of Mouse Cyclase-associated Protein (CAP1) in Regulating Actin Dynamics. <i>Journal of Biological Chemistry</i> , 2014, 289, 30732-30742.	3.4	54
56	Design Principles of Length Control of Cytoskeletal Structures. <i>Annual Review of Biophysics</i> , 2016, 45, 85-116.	10.0	54
57	Coronin Enhances Actin Filament Severing by Recruiting Cofilin to Filament Sides and Altering F-Actin Conformation. <i>Journal of Molecular Biology</i> , 2015, 427, 3137-3147.	4.2	53
58	A central role for the WH2 domain of Srv2/CAP in recharging actin monomers to drive actin turnover in vitro and in vivo. <i>Cytoskeleton</i> , 2010, 67, 120-133.	2.0	50
59	Structural Basis of Arp2/3 Complex Inhibition by GMF, Coronin, and Arpin. <i>Journal of Molecular Biology</i> , 2017, 429, 237-248.	4.2	50
60	Critical roles for multiple formins during cardiac myofibril development and repair. <i>Molecular Biology of the Cell</i> , 2014, 25, 811-827.	2.1	48
61	Scaling behaviour in steady-state contracting actomyosin networks. <i>Nature Physics</i> , 2019, 15, 509-516.	16.7	43
62	TIRF microscopy analysis of human Cof1, Cof2, and ADF effects on actin filament severing and turnover. <i>Journal of Molecular Biology</i> , 2016, 428, 1604-1616.	4.2	40
63	Essential and nonredundant roles for Diaphanous formins in cortical microtubule capture and directed cell migration. <i>Molecular Biology of the Cell</i> , 2014, 25, 658-668.	2.1	39
64	Dissection of Arp2/3 Complex Actin Nucleation Mechanism and Distinct Roles for Its Nucleation-Promoting Factors in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2005, 171, 35-47.	2.9	38
65	GMF Promotes Leading-Edge Dynamics and Collective Cell Migration In Vivo. <i>Current Biology</i> , 2014, 24, 2533-2540.	3.9	38
66	The role of APC-mediated actin assembly in microtubule capture and focal adhesion turnover. <i>Journal of Cell Biology</i> , 2019, 218, 3415-3435.	5.2	38
67	A novel mode of capping protein-regulation by twinfilin. <i>ELife</i> , 2018, 7, .	6.0	38
68	Purification of yeast actin and actin-associated proteins. <i>Methods in Enzymology</i> , 2002, 351, 433-441.	1.0	37
69	Ligand-induced activation of a formin-NPF pair leads to collaborative actin nucleation. <i>Journal of Cell Biology</i> , 2013, 201, 595-611.	5.2	35
70	Tropomyosin isoforms differentially tune actin filament length and disassembly. <i>Molecular Biology of the Cell</i> , 2019, 30, 671-679.	2.1	35
71	Structural and Functional Dissection of the Abp1 ADFH Actin-binding Domain Reveals Versatile In Vivo Adapter Functions. <i>Molecular Biology of the Cell</i> , 2005, 16, 3128-3139.	2.1	33
72	Species-Specific Functions of Twinfilin in Actin Filament Depolymerization. <i>Journal of Molecular Biology</i> , 2018, 430, 3323-3336.	4.2	33

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73	Ceasã€fire at the leading edge: New perspectives on actin filament branching, debranching, and crossã€linking. <i>Cytoskeleton</i> , 2011, 68, 596-602.	2.0	32
74	Rapid production of pure recombinant actin isoforms in <i>Pichia pastoris</i> . <i>Journal of Cell Science</i> , 2018, 131, .	2.0	31
75	The F-BAR protein Hof1 tunes formin activity to sculpt actin cables during polarized growth. <i>Molecular Biology of the Cell</i> , 2014, 25, 1730-1743.	2.1	30
76	Structure of the formin-interaction domain of the actin nucleation-promoting factor Bud6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3424-33.	7.1	29
77	Centering and symmetry breaking in confined contracting actomyosin networks. <i>ELife</i> , 2020, 9, .	6.0	29
78	GMF as an Actin Network Remodeling Factor. <i>Trends in Cell Biology</i> , 2018, 28, 749-760.	7.9	28
79	Antenna Mechanism of Length Control of Actin Cables. <i>PLoS Computational Biology</i> , 2015, 11, e1004160.	3.2	27
80	Functional Surfaces on the Actin-binding Protein Coronin Revealed by Systematic Mutagenesis. <i>Journal of Biological Chemistry</i> , 2010, 285, 34899-34908.	3.4	26
81	Twinfilin bypasses assembly conditions and actin filament aging to drive barbed end depolymerization. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	24
82	<i>Saccharomyces cerevisiae</i> Kelch Proteins and Bud14 Protein Form a Stable 520-kDa Formin Regulatory Complex That Controls Actin Cable Assembly and Cell Morphogenesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 18290-18301.	3.4	23
83	Tropomyosin and Profilin Cooperate to Promote Formin-Mediated Actin Nucleation and Drive Yeast Actin Cable Assembly. <i>Current Biology</i> , 2016, 26, 3230-3237.	3.9	23
84	Common formin-regulating sequences in Smy1 and Bud14 are required for the control of actin cable assembly in vivo. <i>Molecular Biology of the Cell</i> , 2016, 27, 828-837.	2.1	23
85	WAVE1 and WAVE2 have distinct and overlapping roles in controlling actin assembly at the leading edge. <i>Molecular Biology of the Cell</i> , 2020, 31, 2168-2178.	2.1	23
86	EB1 Directly Regulates APC-Mediated Actin Nucleation. <i>Current Biology</i> , 2020, 30, 4763-4772.e8.	3.9	22
87	Cellã€substrate adhesion drives Scar/WAVE activation and phosphorylation by a Ste20-family kinase, which controls pseudopod lifetime. <i>PLoS Biology</i> , 2020, 18, e3000774.	5.6	22
88	A novel role for WAVE1 in controlling actin network growth rate and architecture. <i>Molecular Biology of the Cell</i> , 2015, 26, 495-505.	2.1	20
89	Integrated control of formin-mediated actin assembly by a stationary inhibitor and a mobile activator. <i>Journal of Cell Biology</i> , 2018, 217, 3512-3530.	5.2	20
90	Abp1 promotes Arp2/3 complex-dependent actin nucleation and stabilizes branch junctions by antagonizing GMF. <i>Nature Communications</i> , 2018, 9, 2895.	12.8	19

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91	Extensile to contractile transition in active microtubule-actin composites generates layered asters with programmable lifetimes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	19
92	Autonomous and <i>in trans</i> functions for the two halves of Srv2/CAP in promoting actin turnover. <i>Cytoskeleton</i> , 2014, 71, 351-360.	2.0	18
93	Single-Molecule Studies of Actin Assembly and Disassembly Factors. <i>Methods in Enzymology</i> , 2014, 540, 95-117.	1.0	18
94	Combinatorial genetic analysis of a network of actin disassembly-promoting factors. <i>Cytoskeleton</i> , 2015, 72, 349-361.	2.0	18
95	Cofilin Loss in <i>Drosophila</i> Muscles Contributes to Muscle Weakness through Defective Sarcomerogenesis during Muscle Growth. <i>Cell Reports</i> , 2020, 32, 107893.	6.4	17
96	<i>Drosophila</i> Homologues of Adenomatous Polyposis Coli (APC) and the Formin Diaphanous Collaborate by a Conserved Mechanism to Stimulate Actin Filament Assembly. <i>Journal of Biological Chemistry</i> , 2013, 288, 13897-13905.	3.4	16
97	Structure of a Bud6/Actin Complex Reveals a Novel WH2-like Actin Monomer Recruitment Motif. <i>Structure</i> , 2015, 23, 1492-1499.	3.3	16
98	A septin-Hof1 scaffold at the yeast bud neck binds and organizes actin cables. <i>Molecular Biology of the Cell</i> , 2020, 31, 1988-2001.	2.1	16
99	Global Resource Distribution: Allocation of Actin Building Blocks by Profilin. <i>Developmental Cell</i> , 2015, 32, 5-6.	7.0	15
100	Single-molecule imaging of IQGAP1 regulating actin filament dynamics. <i>Molecular Biology of the Cell</i> , 2022, 33, mbcE21040211.	2.1	13
101	DAAM2 Variants Cause Nephrotic Syndrome via Actin Dysregulation. <i>American Journal of Human Genetics</i> , 2020, 107, 1113-1128.	6.2	12
102	Genetically inspired <i>in vitro</i> reconstitution of <i>Saccharomyces cerevisiae</i> actin cables from seven purified proteins. <i>Molecular Biology of the Cell</i> , 2020, 31, 335-347.	2.1	10
103	Scaling of subcellular actin structures with cell length through decelerated growth. <i>ELife</i> , 2021, 10, .	6.0	10
104	Single-molecule analysis of actin filament debranching by cofilin and GMF. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	7
105	A Flow Cytometry-Based Phenotypic Screen To Identify Novel Endocytic Factors in <i>Saccharomyces cerevisiae</i> . <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1497-1512.	1.8	5
106	Quantitative Analysis of Actin Cable Length in Yeast. <i>Bio-protocol</i> , 2022, 12, .	0.4	4
107	WASp Identity Theft by a Bacterial Effector. <i>Developmental Cell</i> , 2008, 15, 333-334.	7.0	1
108	Bil2 Is a Novel Inhibitor of the Yeast Formin Bnr1 Required for Proper Actin Cable Organization and Polarized Secretion. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 634587.	3.7	1

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109	Title is missing!. , 2020, 18, e3000774.		0
110	Title is missing!. , 2020, 18, e3000774.		0
111	Title is missing!. , 2020, 18, e3000774.		0
112	Title is missing!. , 2020, 18, e3000774.		0
113	Title is missing!. , 2020, 18, e3000774.		0
114	Title is missing!. , 2020, 18, e3000774.		0