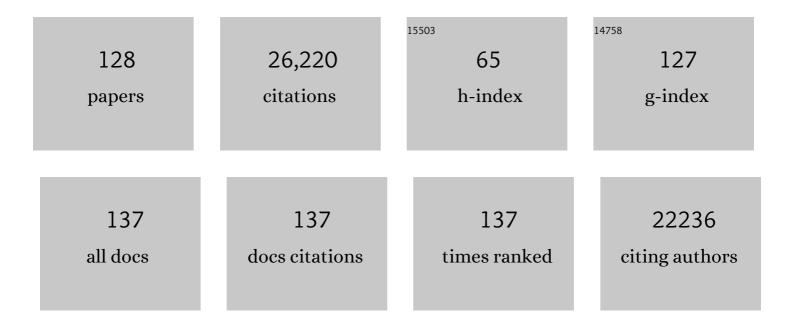
Gary G Borisy

List of Publications by Year in descending order

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CARY C. RODISY

#	Article	IF	CITATIONS
1	Cell Migration: Integrating Signals from Front to Back. Science, 2003, 302, 1704-1709.	12.6	4,337
2	Cellular Motility Driven by Assembly and Disassembly of Actin Filaments. Cell, 2003, 112, 453-465.	28.9	3,717
3	Arp2/3 Complex and Actin Depolymerizing Factor/Cofilin in Dendritic Organization and Treadmilling of Actin Filament Array in Lamellipodia. Journal of Cell Biology, 1999, 145, 1009-1026.	5.2	1,035
4	Antagonism between Ena/VASP Proteins and Actin Filament Capping Regulates Fibroblast Motility. Cell, 2002, 109, 509-521.	28.9	759
5	Visualization of the intracellular behavior of HIV in living cells. Journal of Cell Biology, 2002, 159, 441-452.	5.2	705
6	Mechanism of filopodia initiation by reorganization of a dendritic network. Journal of Cell Biology, 2003, 160, 409-421.	5.2	692
7	Biogeography of a human oral microbiome at the micron scale. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E791-800.	7.1	673
8	Analysis of the Actin–Myosin II System in Fish Epidermal Keratocytes: Mechanism of Cell Body Translocation. Journal of Cell Biology, 1997, 139, 397-415.	5.2	640
9	Microbiota organization is a distinct feature of proximal colorectal cancers. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18321-18326.	7.1	572
10	Lamellipodial Actin Mechanically Links Myosin Activity with Adhesion-Site Formation. Cell, 2007, 128, 561-575.	28.9	472
11	Self-polarization and directional motility of cytoplasm. Current Biology, 1999, 9, 11-S1.	3.9	470
12	Role of fascin in filopodial protrusion. Journal of Cell Biology, 2006, 174, 863-875.	5.2	447
13	Actin machinery: pushing the envelope. Current Opinion in Cell Biology, 2000, 12, 104-112.	5.4	421
14	Lamellipodial Versus Filopodial Mode of the Actin Nanomachinery. Cell, 2004, 118, 363-373.	28.9	376
15	Mammalian end binding proteins control persistent microtubule growth. Journal of Cell Biology, 2009, 184, 691-706.	5.2	331
16	Direct observation of microtubule dynamics in living cells. Nature, 1988, 332, 724-726.	27.8	315
17	Critical Role of Ena/VASP Proteins for Filopodia Formation in Neurons and in Function Downstream of Netrin-1. Neuron, 2004, 42, 37-49.	8.1	295
18	Oligotyping analysis of the human oral microbiome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2875-84.	7.1	295

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19	Myosin II filament assemblies in the active lamella of fibroblasts: their morphogenesis and role in the formation of actin filament bundles Journal of Cell Biology, 1995, 131, 989-1002.	5.2	293
20	Kinetochore microtubule dynamics and the metaphase-anaphase transition Journal of Cell Biology, 1995, 131, 721-734.	5.2	287
21	Systems-level analysis of microbial community organization through combinatorial labeling and spectral imaging. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4152-4157.	7.1	273
22	Kinetic analysis of microtubule self-assembly in vitro. Journal of Molecular Biology, 1977, 117, 1-31.	4.2	259
23	Structural polarity and directional growth of microtubules of Chlamydomonas flagella. Journal of Molecular Biology, 1974, 90, 381-402.	4.2	242
24	p120 catenin associates with kinesin and facilitates the transport of cadherin–catenin complexes to intercellular junctions. Journal of Cell Biology, 2003, 163, 547-557.	5.2	237
25	Microtubule release from the centrosome. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 5078-5083.	7.1	236
26	Formation of filopodia-like bundles in vitro from a dendritic network. Journal of Cell Biology, 2003, 160, 951-962.	5.2	236
27	Role of tubulin-associated proteins in microtubule nucleation and elongation. Journal of Molecular Biology, 1977, 117, 33-52.	4.2	229
28	Cytoplasmic linker proteins promote microtubule rescue in vivo. Journal of Cell Biology, 2002, 159, 589-599.	5.2	224
29	A rapid method for quantitative determination of microtubule protein using DEAE-cellulose filters. Analytical Biochemistry, 1972, 50, 373-385.	2.4	215
30	Spatial organization of a model 15-member human gut microbiota established in gnotobiotic mice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9105-E9114.	7.1	198
31	Identity and polymerization-stimulatory activity of the nontubulin proteins associated with microtubules. Biochemistry, 1977, 16, 2598-2605.	2.5	190
32	Ena/VASP Proteins Have an Anti-Capping Independent Function in Filopodia Formation. Molecular Biology of the Cell, 2007, 18, 2579-2591.	2.1	190
33	Mode of centriole duplication and distribution Journal of Cell Biology, 1990, 110, 1599-1605.	5.2	184
34	Microtubule dynamics at the G2/M transition: abrupt breakdown of cytoplasmic microtubules at nuclear envelope breakdown and implications for spindle morphogenesis Journal of Cell Biology, 1996, 135, 201-214.	5.2	183
35	EB1 and EB3 Control CLIP Dissociation from the Ends of Growing Microtubules. Molecular Biology of the Cell, 2005, 16, 5334-5345.	2.1	182
36	Dendritic organization of actin comet tails. Current Biology, 2001, 11, 130-135.	3.9	172

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37	Life cycle of MTs: persistent growth in the cell interior, asymmetric transition frequencies and effects of the cell boundary. Journal of Cell Science, 2002, 115, 3527-3539.	2.0	164
38	Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. Journal of Cell Biology, 2004, 166, 1003-1014.	5.2	159
39	Microtubule Treadmilling in Vivo. Science, 1997, 275, 215-218.	12.6	153
40	[43] Correlative light and electron microscopy of the cytoskeleton of cultured cells. Methods in Enzymology, 1998, 298, 570-592.	1.0	150
41	Biogeography of the Oral Microbiome: The Site-Specialist Hypothesis. Annual Review of Microbiology, 2019, 73, 335-358.	7.3	147
42	Life cycle of MTs: persistent growth in the cell interior, asymmetric transition frequencies and effects of the cell boundary. Journal of Cell Science, 2002, 115, 3527-39.	2.0	142
43	Detyrosination of alpha tubulin does not stabilize microtubules in vivo [published erratum appears in J Cell Biol 1990 Sep;111(3):1325-6]. Journal of Cell Biology, 1990, 111, 113-122.	5.2	139
44	Improved Procedures for Electron Microscopic Visualization of the Cytoskeleton of Cultured Cells. Journal of Structural Biology, 1995, 115, 290-303.	2.8	137
45	A Rickettsia WASP-like protein activates the Arp2/3 complex and mediates actin-based motility. Cellular Microbiology, 2004, 6, 761-769.	2.1	137
46	Centrosomal control of microtubule dynamics. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 115-120.	7.1	129
47	Non-sarcomeric mode of myosin II organization in the fibroblast lamellum Journal of Cell Biology, 1993, 123, 637-652.	5.2	128
48	Cadherin-mediated regulation of microtubule dynamics. Nature Cell Biology, 2000, 2, 797-804.	10.3	128
49	Self-organization of a propulsive actin network as an evolutionary process. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11324-11329.	7.1	126
50	Two Components of Actin-based Retrograde Flow in Sea Urchin Coelomocytes. Molecular Biology of the Cell, 1999, 10, 4075-4090.	2.1	116
51	Origin of kinetochore microtubules in Chinese hamster ovary cells. Chromosoma, 1980, 81, 483-505.	2.2	113
52	Self-centring activity of cytoplasm. Nature, 1997, 386, 170-173.	27.8	112
53	Spatial Ecology of the Human Tongue Dorsum Microbiome. Cell Reports, 2020, 30, 4003-4015.e3.	6.4	112
54	Cascade pathway of filopodia formation downstream of SCAR. Journal of Cell Science, 2004, 117, 837-848.	2.0	107

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55	Self-organization of actin filament orientation in the dendritic-nucleation/array-treadmilling model. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7086-7091.	7.1	107
56	Oral Microbiome Geography: Micron-Scale Habitat and Niche. Cell Host and Microbe, 2020, 28, 160-168.	11.0	104
57	Immunostructural evidence for the template mechanism of microtubule nucleation. Nature Cell Biology, 2000, 2, 352-357.	10.3	102
58	Conjugation of fluorophores to tubulin. Nature Methods, 2005, 2, 299-303.	19.0	100
59	Intrinsic Dynamic Behavior of Fascin in Filopodia. Molecular Biology of the Cell, 2007, 18, 3928-3940.	2.1	97
60	CLASI-FISH: Principles of combinatorial labeling and spectral imaging. Systematic and Applied Microbiology, 2012, 35, 496-502.	2.8	92
61	Orientational Order of the Lamellipodial Actin Network as Demonstrated in Living Motile Cells. Molecular Biology of the Cell, 2003, 14, 4667-4675.	2.1	91
62	Centrosomal and non entrosomal microtubules. Biology of the Cell, 1999, 91, 321-329.	2.0	85
63	COLCEMID INHIBITION OF CELL GROWTH AND THE CHARACTERIZATION OF A COLCEMID-BINDING ACTIVITY IN SACCHAROMYCES CEREVISIAE. Journal of Cell Biology, 1972, 55, 355-367.	5.2	79
64	Individuality, Stability, and Variability of the Plaque Microbiome. Frontiers in Microbiology, 2016, 7, 564.	3.5	75
65	Molecular dynamics imaging in micropatterned living cells. Nature Methods, 2005, 2, 739-741.	19.0	74
66	Multiplexed Spectral Imaging of 120 Different Fluorescent Labels. PLoS ONE, 2016, 11, e0158495.	2.5	74
67	Lévy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	12.8	73
68	Improved silencing vector co-expressing GFP and small hairpin RNA. BioTechniques, 2004, 36, 74-79.	1.8	69
69	Head-to-tail polymerization of microtubules in vitro. Journal of Molecular Biology, 1981, 150, 577-599.	4.2	63
70	Progress in protrusion: the tell-tale scar. Trends in Biochemical Sciences, 1999, 24, 432-436.	7.5	63
71	Quantitative initiation of microtubule assembly by chromosomes from Chinese hamster ovary cells. Experimental Cell Research, 1978, 113, 369-374.	2.6	62
72	Systematic evasion of the restriction-modification barrier in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11454-11459.	7.1	62

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73	Modification of the C-terminus of brain tubulin during development. Biochemical and Biophysical Research Communications, 1978, 83, 579-586.	2.1	61
74	Comparison of the sedimentation properties of microtubule protein oligomers prepared by two different procedures. Biochemical and Biophysical Research Communications, 1976, 70, 1-7.	2.1	59
75	Kinetic-structural analysis of neuronal growth cone veil motility. Journal of Cell Science, 2007, 120, 1113-1125.	2.0	59
76	Polarity of microtubules of the mitotic spindle. Journal of Molecular Biology, 1978, 124, 565-570.	4.2	58
77	Structure of kinetochore fibers: Microtubule continuity and inter-microtubule bridges. Chromosoma, 1981, 83, 523-540.	2.2	58
78	The attachment of kinetochores to the pro-metaphase spindle in PtK1 cells. Chromosoma, 1981, 82, 693-716.	2.2	58
79	Control of the structural fidelity of microtubules by initiation sites. Journal of Molecular Biology, 1982, 154, 485-500.	4.2	58
80	Speckle microscopic evaluation of microtubule transport in growing nerve processes. Nature Cell Biology, 1999, 1, 399-403.	10.3	58
81	Performance of a Population of Independent Filaments in Lamellipodial Protrusion. Biophysical Journal, 2008, 95, 1393-1411.	0.5	57
82	The Role of Xgrip210 in γ-Tubulin Ring Complex Assembly and Centrosome Recruitment. Journal of Cell Biology, 2000, 151, 1525-1536.	5.2	53
83	Analysis of Na+,K+-ATPase Motion and Incorporation into the Plasma Membrane in Response to G Protein–coupled Receptor Signals in Living Cells. Molecular Biology of the Cell, 2003, 14, 1149-1157.	2.1	53
84	Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation. Hypertension, 2017, 70, 479-485.	2.7	53
85	Evolution of the multi-tubulin hypothesis. BioEssays, 1997, 19, 451-454.	2.5	52
86	Transport and Turnover of Microtubules in Frog Neurons Depend on the Pattern of Axonal Growth. Journal of Neuroscience, 1998, 18, 821-829.	3.6	52
87	Microtubule-targeting-dependent reorganization of filopodia. Journal of Cell Science, 2007, 120, 1235-1244.	2.0	52
88	Self-assembly of glutamic dehydrogenase into ordered superstructures: Multichain tubes formed by association of single molecules. Journal of Molecular Biology, 1972, 65, 127-155.	4.2	49
89	Detection of single fluorescent microtubules and methods for determining their dynamics in living cells. Cytoskeleton, 1988, 10, 237-245.	4.4	46
90	Metapangenomics of the oral microbiome provides insights into habitat adaptation and cultivar diversity. Genome Biology, 2020, 21, 293.	8.8	46

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91	Maternally Expressed γTub37CD inDrosophilals Differentially Required for Female Meiosis and Embryonic Mitosis. Developmental Biology, 1998, 199, 273-290.	2.0	44
92	Thermodynamic analysis of microtubule self-assembly in vitro. Journal of Molecular Biology, 1979, 133, 199-216.	4.2	42
93	Cellular Motility Driven by Assembly and Disassembly of Actin Filaments. Cell, 2003, 113, 549.	28.9	42
94	Migration and actin protrusion in melanoma cells are regulated by EB1 protein. Cancer Letters, 2009, 284, 30-36.	7.2	40
95	Phosphorylation Controls Autoinhibition of Cytoplasmic Linker Protein-170. Molecular Biology of the Cell, 2010, 21, 2661-2673.	2.1	40
96	Dynamics of tongue microbial communities with single-nucleotide resolution using oligotyping. Frontiers in Microbiology, 2014, 5, 568.	3.5	38
97	FRAP analysis of the stability of the microtubule population along the neurites of chick sensory neurons. Cytoskeleton, 1993, 25, 59-72.	4.4	37
98	Tyrosination state of free tubulin subunits and tubulin disassembled from microtubules of rat brain tissue. Biochemical and Biophysical Research Communications, 1979, 89, 893-899.	2.1	36
99	The 300-kDa Intermediate Filament-Associated Protein (IFAP300) Is a Hamster Plectin Ortholog. Biochemical and Biophysical Research Communications, 2000, 273, 183-187.	2.1	34
100	Visualization of Individual Reovirus Particles by Low-Temperature, High-Resolution Scanning Electron Microscopy. Journal of Structural Biology, 1995, 115, 215-225.	2.8	30
101	Self-organization of treadmilling microtubules into a polar array. Trends in Cell Biology, 2002, 12, 462-465.	7.9	29
102	In Vitro Assembly of Filopodia‣ike Bundles. Methods in Enzymology, 2006, 406, 727-739.	1.0	29
103	Regulation of microtubule dynamics in 3T3 fibroblasts by Rho family GTPases. Cytoskeleton, 2006, 63, 29-40.	4.4	28
104	Independence of centriole formation and initiation of DNA synthesis in Chinese hamster ovary cells. Cytoskeleton, 1986, 6, 355-362.	4.4	24
105	Centrosomal and non-centrosomal microtubules. Biology of the Cell, 1999, 91, 321-329.	2.0	23
106	Signaling function of α-catenin in microtubule regulation. Cell Cycle, 2008, 7, 2377-2383.	2.6	22
107	Preservation of three-dimensional spatial structure in the gut microbiome. PLoS ONE, 2017, 12, e0188257.	2.5	22
108	Microtubule guidance tested through controlled cell geometry. Journal of Cell Science, 2012, 125, 5790-5799.	2.0	21

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109	Spatial scale in analysis of the dental plaque microbiome. Periodontology 2000, 2021, 86, 97-112.	13.4	21
110	MECHANICS OF ANAPHASE B MOVEMENT. , 1982, , 233-245.		18
111	Immunocytochemical evidence for centrosomal phosphoproteins in mitotic sea urchin eggs Cell Structure and Function, 1990, 15, 13-20.	1.1	17
112	Comparison of methods for tubulin quantitation in HeLa cell and brain tissue extracts. Analytical Biochemistry, 1980, 104, 432-439.	2.4	15
113	Thomas Hunt Morgan at the Marine Biological Laboratory: Naturalist and Experimentalist. Genetics, 2009, 181, 841-846.	2.9	13
114	Tubulin-colchicine complex (TC) inhibits microtubule depolymerization by a capping reaction exerted preferentially at the minus end. Journal of Cellular Biochemistry, 1986, 30, 11-18.	2.6	11
115	Centrosome nucleates numerous ephemeral microtubules and only few of them participate in the radial array. Cell Biology International, 2015, 39, 1203-1216.	3.0	11
116	Chapter 11 A Direct Method for Analyzing the Polymerization Kinetics at the Two Ends of a Microtubule. Methods in Cell Biology, 1982, 24, 171-187.	1.1	10
117	Semi-blind sparse affine spectral unmixing of autofluorescence-contaminated micrographs. Bioinformatics, 2020, 36, 910-917.	4.1	10
118	Decoration of microtubules by fluorescently labeled microtubule-associated protein 2 (MAP2) does not interfere with their spatial organization and progress through mitosis in living fibroblasts. Cytoskeleton, 1986, 6, 570-579.	4.4	9
119	Microtubule dynamics in living cells: direct analysis in the internal cytoplasm. Cell Biology International, 2003, 27, 293-294.	3.0	9
120	No man's land: Speciesâ€specific formation of exclusion zones bordering <i>Actinomyces graevenitzii</i> microcolonies in nanoliter cultures. MicrobiologyOpen, 2021, 10, e1137.	3.0	9
121	Self-Centering in Cytoplasmic Fragments of Melanophores. Molecular Biology of the Cell, 1998, 9, 1613-1615.	2.1	8
122	Kinesin Processivity. Journal of Cell Biology, 2000, 151, F27-F30.	5.2	8
123	Imaging Marine Bacteria with Unique 16S rRNA V6 Sequences by Fluorescence <i>in situ</i> Hybridization and Spectral Analysis. Geomicrobiology Journal, 2010, 27, 251-260.	2.0	7
124	Speckle microscopy: When less is more. Current Biology, 2000, 10, R22-R24.	3.9	6
125	Components of a Microinjection System. Cold Spring Harbor Protocols, 2011, 2011, pdb.ip27-pdb.ip27.	0.3	5
126	The Essential Roles of Calcium During Mitosis. Advances in Molecular and Cell Biology, 1995, 13, 69-87.	0.1	4

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127	Formulation of the general rate equation for subunit flux at steady-state. Journal of Molecular Biology, 1981, 150, 599-602.	4.2	2
128	Chair's Introduction. Novartis Foundation Symposium, 2008, , 1-2.	1.1	0