Gary G Borisy

List of Publications by Year
in descending order

128 papers	26,220 citations	15466 65 h-index	15218 126 g-index
137 all docs	137 docs citations	137 times ranked	22236 citing authors

#	Article	IF	Citations
1	No man's land: Speciesâ€specific formation of exclusion zones bordering Actinomyces graevenitzii microcolonies in nanoliter cultures. MicrobiologyOpen, 2021, 10, e1137.	1.2	9
2	Spatial scale in analysis of the dental plaque microbiome. Periodontology 2000, 2021, 86, 97-112.	6.3	21
3	Semi-blind sparse affine spectral unmixing of autofluorescence-contaminated micrographs. Bioinformatics, 2020, 36, 910-917.	1.8	10
4	Oral Microbiome Geography: Micron-Scale Habitat and Niche. Cell Host and Microbe, 2020, 28, 160-168.	5.1	104
5	Metapangenomics of the oral microbiome provides insights into habitat adaptation and cultivar diversity. Genome Biology, 2020, 21, 293.	3.8	46
6	Spatial Ecology of the Human Tongue Dorsum Microbiome. Cell Reports, 2020, 30, 4003-4015.e3.	2.9	112
7	Biogeography of the Oral Microbiome: The Site-Specialist Hypothesis. Annual Review of Microbiology, 2019, 73, 335-358.	2.9	147
8	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.	3.3	62
9	LÃ©vy-like movement patterns of metastatic cancer cells revealed in microfabricated systems and implicated in vivo. Nature Communications, 2018, 9, 4539.	5.8	73
10	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.	3.3	198
11	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.	1.3	53
12	Preservation of three-dimensional spatial structure in the gut microbiome. PLoS ONE, 2017, 12, e0188257.	1.1	22
13	Individuality, Stability, and Variability of the Plaque Microbiome. Frontiers in Microbiology, 2016, 7, 564.	1.5	75
14	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.	3.3	673
15	Multiplexed Spectral Imaging of 120 Different Fluorescent Labels. PLoS ONE, 2016, 11, e0158495.	1.1	74
16	Centrosome nucleates numerous ephemeral microtubules and only few of them participate in the radial array. Cell Biology International, 2015, 39, 1203-1216.	1.4	11
17	Dynamics of tongue microbial communities with single-nucleotide resolution using oligotyping. Frontiers in Microbiology, 2014, 5, 568.	1.5	38
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.	3.3	295

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19	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.	3.3	572
20	Microtubule guidance tested through controlled cell geometry. Journal of Cell Science, 2012, 125, 5790-5799.	1.2	21
21	CLASI-FISH: Principles of combinatorial labeling and spectral imaging. Systematic and Applied Microbiology, 2012, 35, 496-502.	1.2	92
22	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.	3.3	273
23	Components of a Microinjection System. Cold Spring Harbor Protocols, 2011, 2011, pdb.ip27-pdb.ip27.	0.2	5
24	Imaging Marine Bacteria with Unique 16S rRNA V6 Sequences by Fluorescence in situ Hybridization and Spectral Analysis. Geomicrobiology Journal, 2010, 27, 251-260.	1.0	7
25	Phosphorylation Controls Autoinhibition of Cytoplasmic Linker Protein-170. Molecular Biology of the Cell, 2010, 21, 2661-2673.	0.9	40
26	Thomas Hunt Morgan at the Marine Biological Laboratory: Naturalist and Experimentalist. Genetics, 2009, 181, 841-846.	1.2	13
27	Migration and actin protrusion in melanoma cells are regulated by EB1 protein. Cancer Letters, 2009, 284, 30-36.	3.2	40
28	Mammalian end binding proteins control persistent microtubule growth. Journal of Cell Biology, 2009, 184, 691-706.	2.3	331
29	Performance of a Population of Independent Filaments in Lamellipodial Protrusion. Biophysical Journal, 2008, 95, 1393-1411.	0.2	57
30	Signaling function of α-catenin in microtubule regulation. Cell Cycle, 2008, 7, 2377-2383.	1.3	22
31	Chair's Introduction. Novartis Foundation Symposium, 2008, , 1-2.	1.2	0
32	Microtubule-targeting-dependent reorganization of filopodia. Journal of Cell Science, 2007, 120, 1235-1244.	1.2	52
33	Kinetic-structural analysis of neuronal growth cone veil motility. Journal of Cell Science, 2007, 120, 1113-1125.	1.2	59
34	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.	3.3	107
35	Ena/VASP Proteins Have an Anti-Capping Independent Function in Filopodia Formation. Molecular Biology of the Cell, 2007, 18, 2579-2591.	0.9	190
36	Intrinsic Dynamic Behavior of Fascin in Filopodia. Molecular Biology of the Cell, 2007, 18, 3928-3940.	0.9	97

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37	Lamellipodial Actin Mechanically Links Myosin Activity with Adhesion-Site Formation. Cell, 2007, 128, 561-575.	13.5	472
38	Regulation of microtubule dynamics in 3T3 fibroblasts by Rho family GTPases. Cytoskeleton, 2006, 63, 29-40.	4.4	28
39	In Vitro Assembly of Filopodiaâ€Like Bundles. Methods in Enzymology, 2006, 406, 727-739.	0.4	29
40	Role of fascin in filopodial protrusion. Journal of Cell Biology, 2006, 174, 863-875.	2.3	447
41	Conjugation of fluorophores to tubulin. Nature Methods, 2005, 2, 299-303.	9.0	100
42	Molecular dynamics imaging in micropatterned living cells. Nature Methods, 2005, 2, 739-741.	9.0	74
43	EB1 and EB3 Control CLIP Dissociation from the Ends of Growing Microtubules. Molecular Biology of the Cell, 2005, 16, 5334-5345.	0.9	182
44	Improved silencing vector co-expressing GFP and small hairpin RNA. BioTechniques, 2004, 36, 74-79.	0.8	69
45	Cascade pathway of filopodia formation downstream of SCAR. Journal of Cell Science, 2004, 117, 837-848.	1.2	107
46	Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. Journal of Cell Biology, 2004, 166, 1003-1014.	2.3	159
47	A Rickettsia WASP-like protein activates the Arp2/3 complex and mediates actin-based motility. Cellular Microbiology, 2004, 6, 761-769.	1.1	137
48	Lamellipodial Versus Filopodial Mode of the Actin Nanomachinery. Cell, 2004, 118, 363-373.	13.5	376
49	Critical Role of Ena/VASP Proteins for Filopodia Formation in Neurons and in Function Downstream of Netrin-1. Neuron, 2004, 42, 37-49.	3.8	295
50	Cell Migration: Integrating Signals from Front to Back. Science, 2003, 302, 1704-1709.	6.0	4,337
51	Microtubule dynamics in living cells: direct analysis in the internal cytoplasm. Cell Biology International, 2003, 27, 293-294.	1.4	9
52	Cellular Motility Driven by Assembly and Disassembly of Actin Filaments. Cell, 2003, 112, 453-465.	13.5	3,717
53	Cellular Motility Driven by Assembly and Disassembly of Actin Filaments. Cell, 2003, 113, 549.	13.5	42
54	p120 catenin associates with kinesin and facilitates the transport of cadherinâ€“catenin complexes to intercellular junctions. Journal of Cell Biology, 2003, 163, 547-557.	2.3	237

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55	Orientational Order of the Lamellipodial Actin Network as Demonstrated in Living Motile Cells. Molecular Biology of the Cell, 2003, 14, 4667-4675.	0.9	91
56	Analysis of Na+,K+-ATPase Motion and Incorporation into the Plasma Membrane in Response to G Proteinâ€"coupled Receptor Signals in Living Cells. Molecular Biology of the Cell, 2003, 14, 1149-1157.	0.9	53
57	Formation of filopodia-like bundles in vitro from a dendritic network. Journal of Cell Biology, 2003, 160, 951-962.	2.3	236
58	Mechanism of filopodia initiation by reorganization of a dendritic network. Journal of Cell Biology, 2003, 160, 409-421.	2.3	692
59	Visualization of the intracellular behavior of HIV in living cells. Journal of Cell Biology, 2002, 159, 441-452.	2.3	705
60	Cytoplasmic linker proteins promote microtubule rescue in vivo. Journal of Cell Biology, 2002, 159, 589-599.	2.3	224
61	Antagonism between Ena/VASP Proteins and Actin Filament Capping Regulates Fibroblast Motility. Cell, 2002, 109, 509-521.	13.5	759
62	Self-organization of treadmilling microtubules into a polar array. Trends in Cell Biology, 2002, 12, 462-465.	3.6	29
63	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.	1.2	164
64	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.	1.2	142
65	Dendritic organization of actin comet tails. Current Biology, 2001, 11, 130-135.	1.8	172
66	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.	3.3	126
67	Immunostructural evidence for the template mechanism of microtubule nucleation. Nature Cell Biology, 2000, 2, 352-357.	4.6	102
68	Cadherin-mediated regulation of microtubule dynamics. Nature Cell Biology, 2000, 2, 797-804.	4.6	128
69	Actin machinery: pushing the envelope. Current Opinion in Cell Biology, 2000, 12, 104-112.	2.6	421
70	Speckle microscopy: When less is more. Current Biology, 2000, 10, R22-R24.	1.8	6
71	Kinesin Processivity. Journal of Cell Biology, 2000, 151, F27-F30.	2.3	8
72	The Role of Xgrip210 in Î³-Tubulin Ring Complex Assembly and Centrosome Recruitment. Journal of Cell Biology, 2000, 151, 1525-1536.	2.3	53

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73	The 300-kDa Intermediate Filament-Associated Protein (IFAP300) Is a Hamster Plectin Ortholog. Biochemical and Biophysical Research Communications, 2000, 273, 183-187.	1.0	34
74	Two Components of Actin-based Retrograde Flow in Sea Urchin Coelomocytes. Molecular Biology of the Cell, 1999, 10, 4075-4090.	0.9	116
75	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.	2.3	1,035
76	Speckle microscopic evaluation of microtubule transport in growing nerve processes. Nature Cell Biology, 1999, 1, 399-403.	4.6	58
77	Centrosomal and nonâ€centrosomal microtubules. Biology of the Cell, 1999, 91, 321-329.	0.7	85
78	Self-polarization and directional motility of cytoplasm. Current Biology, 1999, 9, 11-S1.	1.8	470
79	Progress in protrusion: the tell-tale scar. Trends in Biochemical Sciences, 1999, 24, 432-436.	3.7	63
80	Centrosomal control of microtubule dynamics. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 115-120.	3.3	129
81	Centrosomal and non-centrosomal microtubules. , 1999, 91, 321.		23
82	Maternally Expressed Î³Tub37CD inDrosophilaIs Differentially Required for Female Meiosis and Embryonic Mitosis. Developmental Biology, 1998, 199, 273-290.	0.9	44
83	[43] Correlative light and electron microscopy of the cytoskeleton of cultured cells. Methods in Enzymology, 1998, 298, 570-592.	0.4	150
84	Self-Centering in Cytoplasmic Fragments of Melanophores. Molecular Biology of the Cell, 1998, 9, 1613-1615.	0.9	8
85	Transport and Turnover of Microtubules in Frog Neurons Depend on the Pattern of Axonal Growth. Journal of Neuroscience, 1998, 18, 821-829.	1.7	52
86	Analysis of the Actinâ€“Myosin II System in Fish Epidermal Keratocytes: Mechanism of Cell Body Translocation. Journal of Cell Biology, 1997, 139, 397-415.	2.3	640
87	Microtubule Treadmilling in Vivo. Science, 1997, 275, 215-218.	6.0	153
88	Microtubule release from the centrosome. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 5078-5083.	3.3	236
89	Self-centring activity of cytoplasm. Nature, 1997, 386, 170-173.	13.7	112
90	Evolution of the multi-tubulin hypothesis. BioEssays, 1997, 19, 451-454.	1.2	52

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91	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.	2.3	183
92	The Essential Roles of Calcium During Mitosis. Advances in Molecular and Cell Biology, 1995, 13, 69-87.	0.1	4
93	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.	2.3	293
94	Kinetochore microtubule dynamics and the metaphase-anaphase transition.. Journal of Cell Biology, 1995, 131, 721-734.	2.3	287
95	Visualization of Individual Reovirus Particles by Low-Temperature, High-Resolution Scanning Electron Microscopy. Journal of Structural Biology, 1995, 115, 215-225.	1.3	30
96	Improved Procedures for Electron Microscopic Visualization of the Cytoskeleton of Cultured Cells. Journal of Structural Biology, 1995, 115, 290-303.	1.3	137
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	Non-sarcomeric mode of myosin II organization in the fibroblast lamellum.. Journal of Cell Biology, 1993, 123, 637-652.	2.3	128
99	Mode of centriole duplication and distribution.. Journal of Cell Biology, 1990, 110, 1599-1605.	2.3	184
100	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.	2.3	139
101	Immunocytochemical evidence for centrosomal phosphoproteins in mitotic sea urchin eggs.. Cell Structure and Function, 1990, 15, 13-20.	0.5	17
102	Detection of single fluorescent microtubules and methods for determining their dynamics in living cells. Cytoskeleton, 1988, 10, 237-245.	4.4	46
103	Direct observation of microtubule dynamics in living cells. Nature, 1988, 332, 724-726.	13.7	315
104	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.	1.2	11
105	Independence of centriole formation and initiation of DNA synthesis in Chinese hamster ovary cells. Cytoskeleton, 1986, 6, 355-362.	4.4	24
106	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
107	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.	0.5	10
108	Control of the structural fidelity of microtubules by initiation sites. Journal of Molecular Biology, 1982, 154, 485-500.	2.0	58

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109	MECHANICS OF ANAPHASE B MOVEMENT. , 1982, , 233-245.		18
110	Head-to-tail polymerization of microtubules in vitro. Journal of Molecular Biology, 1981, 150, 577-599.	2.0	63
111	Formulation of the general rate equation for subunit flux at steady-state. Journal of Molecular Biology, 1981, 150, 599-602.	2.0	2
112	Structure of kinetochore fibers: Microtubule continuity and inter-microtubule bridges. Chromosoma, 1981, 83, 523-540.	1.0	58
113	The attachment of kinetochores to the pro-metaphase spindle in PtK1 cells. Chromosoma, 1981, 82, 693-716.	1.0	58
114	Origin of kinetochore microtubules in Chinese hamster ovary cells. Chromosoma, 1980, 81, 483-505.	1.0	113
115	Comparison of methods for tubulin quantitation in HeLa cell and brain tissue extracts. Analytical Biochemistry, 1980, 104, 432-439.	1.1	15
116	Tyrosination state of free tubulin subunits and tubulin disassembled from microtubules of rat brain tissue. Biochemical and Biophysical Research Communications, 1979, 89, 893-899.	1.0	36
117	Thermodynamic analysis of microtubule self-assembly in vitro. Journal of Molecular Biology, 1979, 133, 199-216.	2.0	42
118	Modification of the C-terminus of brain tubulin during development. Biochemical and Biophysical Research Communications, 1978, 83, 579-586.	1.0	61
119	Polarity of microtubules of the mitotic spindle. Journal of Molecular Biology, 1978, 124, 565-570.	2.0	58
120	Quantitative initiation of microtubule assembly by chromosomes from Chinese hamster ovary cells. Experimental Cell Research, 1978, 113, 369-374.	1.2	62
121	Identity and polymerization-stimulatory activity of the nontubulin proteins associated with microtubules. Biochemistry, 1977, 16, 2598-2605.	1.2	190
122	Kinetic analysis of microtubule self-assembly in vitro. Journal of Molecular Biology, 1977, 117, 1-31.	2.0	259
123	Role of tubulin-associated proteins in microtubule nucleation and elongation. Journal of Molecular Biology, 1977, 117, 33-52.	2.0	229
124	Comparison of the sedimentation properties of microtubule protein oligomers prepared by two different procedures. Biochemical and Biophysical Research Communications, 1976, 70, 1-7.	1.0	59
125	Structural polarity and directional growth of microtubules of Chlamydomonas flagella. Journal of Molecular Biology, 1974, 90, 381-402.	2.0	242
126	COLCEMID INHIBITION OF CELL GROWTH AND THE CHARACTERIZATION OF A COLCEMID-BINDING ACTIVITY IN SACCHAROMYCES CEREVISIAE. Journal of Cell Biology, 1972, 55, 355-367.	2.3	79

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127	Self-assembly of glutamic dehydrogenase into ordered superstructures: Multichain tubes formed by association of single molecules. Journal of Molecular Biology, 1972, 65, 127-155.	2.0	49
128	A rapid method for quantitative determination of microtubule protein using DEAE-cellulose filters. Analytical Biochemistry, 1972, 50, 373-385.	1.1	215