Brian E Burke

List of Publications by Year
in descending order

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79 papers	13,363 citations	57719 44 h-index	82499 72 g-index
82 all docs	82 docs citations	82 times ranked	12582 citing authors

#	Article	IF	Citations
1	A promiscuous biotin ligase fusion protein identifies proximal and interacting proteins in mammalian cells. Journal of Cell Biology, 2012, 196, 801-810.	2.3	1,834
2	Coupling of the nucleus and cytoplasm: Role of the LINC complex. Journal of Cell Biology, 2006, 172, 41-53.	2.3	1,153
3	Loss of a-Type Lamin Expression Compromises Nuclear Envelope Integrity Leading to Muscular Dystrophy. Journal of Cell Biology, 1999, 147, 913-920.	2.3	1,097
4	Subdiffraction Multicolor Imaging of the Nuclear Periphery with 3D Structured Illumination Microscopy. Science, 2008, 320, 1332-1336.	6.0	1,016
5	Functional Organization of the Nuclear Envelope. Annual Review of Cell Biology, 1988, 4, 335-374.	26.0	631
6	The nuclear lamins: flexibility in function. Nature Reviews Molecular Cell Biology, 2013, 14, 13-24.	16.1	455
7	The Interaction between Nesprins and Sun Proteins at the Nuclear Envelope Is Critical for Force Transmission between the Nucleus and Cytoskeleton. Journal of Biological Chemistry, 2011, 286, 26743-26753.	1.6	433
8	A cell free system to study reassembly of the nuclear envelope at the end of mitosis. Cell, 1986, 44, 639-652.	13.5	407
9	Life at the edge: the nuclear envelope and human disease. Nature Reviews Molecular Cell Biology, 2002, 3, 575-585.	16.1	387
10	Teratocarcinoma stem cells and early mouse embryos contain only a single major lamin polypeptide closely resembling lamin B. Cell, 1987, 51, 383-392.	13.5	354
11	Cytoplasmic Dynein as a Facilitator of Nuclear Envelope Breakdown. Cell, 2002, 108, 97-107.	13.5	347
12	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2013, 74, 19.23.1-19.23.14.	2.8	332
13	Nesprin 4 is an outer nuclear membrane protein that can induce kinesin-mediated cell polarization. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2194-2199.	3.3	313
14	Blurring the Boundary: The Nuclear Envelope Extends Its Reach. Science, 2007, 318, 1408-1412.	6.0	239
15	Cytoskeletonâ€"membrane interactions. Current Opinion in Cell Biology, 1996, 8, 56-65.	2.6	221
16	Remodelling the walls of the nucleus. Nature Reviews Molecular Cell Biology, 2002, 3, 487-497.	16.1	204
17	Nuclear envelope defects associated withLMNAmutations cause dilated cardiomyopathy and Emery-Dreifuss muscular dystrophy. Journal of Cell Science, 2001, 114, 4447-4457.	1.2	203
18	Functional association of Sun1 with nuclear pore complexes. Journal of Cell Biology, 2007, 178, 785-798.	2.3	202

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19	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2018, 91, 19.23.1-19.23.15.	2.8	200
20	A mammalian KASH domain protein coupling meiotic chromosomes to the cytoskeleton. Journal of Cell Biology, 2013, 202, 1023-1039.	2.3	193
21	A mechanism of AP-1 suppression through interaction of c-Fos with lamin A/C. Genes and Development, 2006, 20, 307-320.	2.7	190
22	Nup358 integrates nuclear envelope breakdown with kinetochore assembly. Journal of Cell Biology, 2003, 162, 991-1001.	2.3	182
23	The laminopathies: nuclear structure meets disease. Current Opinion in Genetics and Development, 2003, 13, 223-230.	1.5	177
24	Functional Coupling between the Extracellular Matrix and Nuclear Lamina by Wnt Signaling in Progeria. Developmental Cell, 2010, 19, 413-425.	3.1	162
25	The Laminopathies: The Functional Architecture of the Nucleus and Its Contribution to Disease. Annual Review of Genomics and Human Genetics, 2006, 7, 369-405.	2.5	143
26	Nuclei Take a Position: Managing Nuclear Location. Developmental Cell, 2009, 17, 587-597.	3.1	140
27	The LINC complex is essential for hearing. Journal of Clinical Investigation, 2013, 123, 740-50.	3.9	130
28	A-type Lamins Form Distinct Filamentous Networks with Differential Nuclear Pore Complex Associations. Current Biology, 2016, 26, 2651-2658.	1.8	127
29	Nesprin-1Î±-Dependent Microtubule Nucleation from the Nuclear Envelope via Akap450 Is Necessary for Nuclear Positioning in Muscle Cells. Current Biology, 2017, 27, 2999-3009.e9.	1.8	125
30	Functional Architecture of the Cell's Nucleus in Development, Aging, and Disease. Current Topics in Developmental Biology, 2014, 109, 1-52.	1.0	117
31	Stage-specific expression of a family of proteins that are major products of zygotic gene activation in the mouse embryo. Developmental Biology, 1991, 144, 392-404.	0.9	114
32	On the cell-free association of lamins A and C with metaphase chromosomes. Experimental Cell Research, 1990, 186, 169-176.	1.2	105
33	Nup84, A Novel Nucleoporin That Is Associated With CAN/Nup214 on the Cytoplasmic Face of the Nuclear Pore Complex. Journal of Cell Biology, 1997, 137, 989-1000.	2.3	97
34	Functional Analysis of Tpr: Identification of Nuclear Pore Complex Association and Nuclear Localization Domains and a Role in mRNA Export. Journal of Cell Biology, 1998, 143, 1801-1812.	2.3	97
35	Progerin reduces LAP2Î±-telomere association in Hutchinson-Gilford progeria. ELife, 2015, 4, .	2.8	96
36	Mechanism and Regulation of Rapid Telomere Prophase Movements in Mouse Meiotic Chromosomes. Cell Reports, 2015, 11, 551-563.	2.9	88

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37	Nuclear transport and the mitotic apparatus: an evolving relationship. Cellular and Molecular Life Sciences, 2010, 67, 2215-2230.	2.4	85
38	LINC complexes and nuclear positioning. Seminars in Cell and Developmental Biology, 2018, 82, 67-76.	2.3	80
39	Proximity biotinylation provides insight into the molecular composition of focal adhesions at the nanometer scale. Science Signaling, 2016, 9, rs4.	1.6	78
40	LINC complexes as regulators of meiosis. Current Opinion in Cell Biology, 2018, 52, 22-29.	2.6	57
41	SUN4 is essential for nuclear remodeling during mammalian spermiogenesis. Developmental Biology, 2015, 407, 321-330.	0.9	55
42	The nuclear envelope as an integrator of nuclear and cytoplasmic architecture. FEBS Letters, 2008, 582, 2023-2032.	1.3	54
43	EGF hijacks miR-198/FSTL1 wound-healing switch and steers a two-pronged pathway toward metastasis. Journal of Experimental Medicine, 2017, 214, 2889-2900.	4.2	54
44	The A-Type Lamins Nuclear Structural Proteins as a Focus for Muscular Dystrophy and Cardiovascular Diseases. Trends in Cardiovascular Medicine, 2001, 11, 280-285.	2.3	50
45	Amino-terminal sequences that direct nucleoporin Nup153 to the inner surface of the nuclear envelope. Chromosoma, 1998, 107, 228-236.	1.0	48
46	Disrupting the LINC complex by AAV mediated gene transduction prevents progression of Lamin induced cardiomyopathy. Nature Communications, 2021, 12, 4722.	5.8	45
47	Microinjection of mRNA coding for an anti-golgi antibody inhibits intracellular transport of a viral membrane protein. Cell, 1984, 36, 847-856.	13.5	43
48	The Nuclear Envelope in Muscular Dystrophy and Cardiovascular Diseases. Traffic, 2001, 2, 675-683.	1.3	39
49	2C-BioID: An Advanced Two Component BioID System for Precision Mapping of Protein Interactomes. IScience, 2018, 10, 40-52.	1.9	35
50	The nuclear envelope: filling in gaps. Nature Cell Biology, 2001, 3, E273-E274.	4.6	28
51	Lamins and Apoptosis. Journal of Cell Biology, 2001, 153, F5-F7.	2.3	28
52	Nuclear envelope defects in muscular dystrophy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 118-127.	1.8	27
53	Dynamics of Lamin-A Processing Following Precursor Accumulation. PLoS ONE, 2010, 5, e10874.	1.1	24
54	Function and assembly of nuclear pore complex proteins. Biochemistry and Cell Biology, 1999, 77, 321-329.	0.9	23

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55	Chain reaction: LINC complexes and nuclear positioning. F1000Research, 2019, 8, 136.	0.8	22
56	Recombinant Nup153 Incorporates in Vivo into Xenopus Oocyte Nuclear Pore Complexes. Journal of Structural Biology, 2000, 129, 306-312.	1.3	21
57	Nuclear envelope dynamics. Biochemistry and Cell Biology, 2001, 79, 533-542.	0.9	21
58	The missing LINC. Nucleus, 2014, 5, 3-10.	0.6	21
59	C/EBPÎ² mediates RNA polymerase III-driven transcription of oncomiR-138 in malignant gliomas. Nucleic Acids Research, 2018, 46, 336-349.	6.5	18
60	It Takes KASH to Hitch to the SUN. Cell, 2012, 149, 961-963.	13.5	16
61	Lamins. Current Biology, 2016, 26, R348-R350.	1.8	14
62	AKTIP interacts with ESCRT I and is needed for the recruitment of ESCRT III subunits to the midbody. PLoS Genetics, 2021, 17, e1009757.	1.5	13
63	CELL BIOLOGY: Nuclear Pore Complex Models Gel. Science, 2006, 314, 766a-767a.	6.0	12
64	Nuclear networking. Nucleus, 2017, 8, 323-330.	0.6	10
65	When cells push the envelope. Science, 2016, 352, 295-296.	6.0	7
66	A human infertility-associated KASH5 variant promotes mitochondrial localization. Scientific Reports, 2021, 11, 10133.	1.6	6
67	Chapter 16 Cell-Free Nuclear Reassembly in Mammalian Mitotic Homogenates. Methods in Cell Biology, 1997, 53, 357-366.	0.5	3
68	Aspects of Nuclear Envelope Dynamics in Mitotic Cells. Novartis Foundation Symposium, 2008, , 22-34.	1.2	3
69	PREEParing for Mitosis. Developmental Cell, 2013, 26, 221-222.	3.1	3
70	A user-interactive algorithm quantifying nuclear pore complex distribution within the nuclear lamina network in single molecular localization microscopic image. Methods, 2019, 157, 42-46.	1.9	3
71	Aspects of nuclear envelope dynamics in mitotic cells. Novartis Foundation Symposium, 2005, 264, 22-30; discussion 30-4, 227-30.	1.2	2
72	Network news: complete nuclear coverage. Nature Cell Biology, 2007, 9, 1123-1124.	4.6	1

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73	The nuclear periphery. Molecular Biology of the Cell, 2012, 23, 968-968.	0.9	0
74	Interactions of Nesprin-4-Containing LINC Complexes in Outer Hair Cells Explored by BioID. Methods in Molecular Biology, 2018, 1840, 45-56.	0.4	0
75	Proteinâ€Protein Interaction Mapping by 2Câ€BioID. Current Protocols in Cell Biology, 2019, 84, e96.	2.3	0
76	Mitotic Control of Nuclear Pore Complex Assembly. , 2002, , 73-86.		0
77	Nuclear Envelope Dynamics During Mitosis. Proceedings Annual Meeting Electron Microscopy Society of America, 1988, 46, 224-225.	0.0	0
78	Elementary Immunology. , 1993, , 204-236.		0
79	Nuclear envelope dynamics during mitosis. Symposia of the Society for Experimental Biology, 2004, , 205-16.	0.0	0