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 human infertility-associated KASH5 variant promotes mitochondrial localization. Scientific Reports, 2021, 11, 10133.	1.6	6
2	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
3	Disrupting the LINC complex by AAV mediated gene transduction prevents progression of Lamin induced cardiomyopathy. Nature Communications, 2021, 12, 4722.	5.8	45
4	Proteinâ€Protein Interaction Mapping by 2Câ€BioID. Current Protocols in Cell Biology, 2019, 84, e96.	2.3	0
5	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
6	Chain reaction: LINC complexes and nuclear positioning. F1000Research, 2019, 8, 136.	0.8	22
7	LINC complexes as regulators of meiosis. Current Opinion in Cell Biology, 2018, 52, 22-29.	2.6	57
8	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2018, 91, 19.23.1-19.23.15.	2.8	200
9	C/EBPÎ² mediates RNA polymerase III-driven transcription of oncomiR-138 in malignant gliomas. Nucleic Acids Research, 2018, 46, 336-349.	6.5	18
10	LINC complexes and nuclear positioning. Seminars in Cell and Developmental Biology, 2018, 82, 67-76.	2.3	80
11	2C-BioID: An Advanced Two Component BioID System for Precision Mapping of Protein Interactomes. IScience, 2018, 10, 40-52.	1.9	35
12	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
13	Nuclear networking. Nucleus, 2017, 8, 323-330.	0.6	10
14	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
15	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
16	When cells push the envelope. Science, 2016, 352, 295-296.	6.0	7
17	Lamins. Current Biology, 2016, 26, R348-R350.	1.8	14
18	A-type Lamins Form Distinct Filamentous Networks with Differential Nuclear Pore Complex Associations. Current Biology, 2016, 26, 2651-2658.	1.8	127

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19	Proximity biotinylation provides insight into the molecular composition of focal adhesions at the nanometer scale. Science Signaling, 2016, 9, rs4.	1.6	78
20	Progerin reduces LAP2Î±-telomere association in Hutchinson-Gilford progeria. ELife, 2015, 4, .	2.8	96
21	SUN4 is essential for nuclear remodeling during mammalian spermiogenesis. Developmental Biology, 2015, 407, 321-330.	0.9	55
22	Mechanism and Regulation of Rapid Telomere Prophase Movements in Mouse Meiotic Chromosomes. Cell Reports, 2015, 11, 551-563.	2.9	88
23	The missing LINC. Nucleus, 2014, 5, 3-10.	0.6	21
24	Functional Architecture of the Cell's Nucleus in Development, Aging, and Disease. Current Topics in Developmental Biology, 2014, 109, 1-52.	1.0	117
25	A mammalian KASH domain protein coupling meiotic chromosomes to the cytoskeleton. Journal of Cell Biology, 2013, 202, 1023-1039.	2.3	193
26	BioID: A Screen for Proteinâ€Protein Interactions. Current Protocols in Protein Science, 2013, 74, 19.23.1-19.23.14.	2.8	332
27	The nuclear lamins: flexibility in function. Nature Reviews Molecular Cell Biology, 2013, 14, 13-24.	16.1	455
28	PREEParing for Mitosis. Developmental Cell, 2013, 26, 221-222.	3.1	3
29	The LINC complex is essential for hearing. Journal of Clinical Investigation, 2013, 123, 740-50.	3.9	130
30	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
31	The nuclear periphery. Molecular Biology of the Cell, 2012, 23, 968-968.	0.9	0
32	It Takes KASH to Hitch to the SUN. Cell, 2012, 149, 961-963.	13.5	16
33	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
34	Nuclear transport and the mitotic apparatus: an evolving relationship. Cellular and Molecular Life Sciences, 2010, 67, 2215-2230.	2.4	85
35	Functional Coupling between the Extracellular Matrix and Nuclear Lamina by Wnt Signaling in Progeria. Developmental Cell, 2010, 19, 413-425.	3.1	162
36	Dynamics of Lamin-A Processing Following Precursor Accumulation. PLoS ONE, 2010, 5, e10874.	1.1	24

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37	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
38	Nuclei Take a Position: Managing Nuclear Location. Developmental Cell, 2009, 17, 587-597.	3.1	140
39	Subdiffraction Multicolor Imaging of the Nuclear Periphery with 3D Structured Illumination Microscopy. Science, 2008, 320, 1332-1336.	6.0	1,016
40	The nuclear envelope as an integrator of nuclear and cytoplasmic architecture. FEBS Letters, 2008, 582, 2023-2032.	1.3	54
41	Aspects of Nuclear Envelope Dynamics in Mitotic Cells. Novartis Foundation Symposium, 2008, , 22-34.	1.2	3
42	Functional association of Sun1 with nuclear pore complexes. Journal of Cell Biology, 2007, 178, 785-798.	2.3	202
43	Nuclear envelope defects in muscular dystrophy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 118-127.	1.8	27
44	Blurring the Boundary: The Nuclear Envelope Extends Its Reach. Science, 2007, 318, 1408-1412.	6.0	239
45	Network news: complete nuclear coverage. Nature Cell Biology, 2007, 9, 1123-1124.	4.6	1
46	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
47	Coupling of the nucleus and cytoplasm: Role of the LINC complex. Journal of Cell Biology, 2006, 172, 41-53.	2.3	1,153
48	CELL BIOLOGY: Nuclear Pore Complex Models Gel. Science, 2006, 314, 766a-767a.	6.0	12
49	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
50	Aspects of nuclear envelope dynamics in mitotic cells. Novartis Foundation Symposium, 2005, 264, 22-30; discussion 30-4, 227-30.	1.2	2
51	Nuclear envelope dynamics during mitosis. Symposia of the Society for Experimental Biology, 2004, , 205-16.	0.0	0
52	The laminopathies: nuclear structure meets disease. Current Opinion in Genetics and Development, 2003, 13, 223-230.	1.5	177
53	Nup358 integrates nuclear envelope breakdown with kinetochore assembly. Journal of Cell Biology, 2003, 162, 991-1001.	2.3	182
54	Cytoplasmic Dynein as a Facilitator of Nuclear Envelope Breakdown. Cell, 2002, 108, 97-107.	13.5	347

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55	Remodelling the walls of the nucleus. Nature Reviews Molecular Cell Biology, 2002, 3, 487-497.	16.1	204
56	Life at the edge: the nuclear envelope and human disease. Nature Reviews Molecular Cell Biology, 2002, 3, 575-585.	16.1	387
57	Mitotic Control of Nuclear Pore Complex Assembly. , 2002, , 73-86.		0
58	The Nuclear Envelope in Muscular Dystrophy and Cardiovascular Diseases. Traffic, 2001, 2, 675-683.	1.3	39
59	The nuclear envelope: filling in gaps. Nature Cell Biology, 2001, 3, E273-E274.	4.6	28
60	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
61	Lamins and Apoptosis. Journal of Cell Biology, 2001, 153, F5-F7.	2.3	28
62	Nuclear envelope dynamics. Biochemistry and Cell Biology, 2001, 79, 533-542.	0.9	21
63	Nuclear envelope defects associated withLMNAmutations cause dilated cardiomyopathy and Emery-Dreifuss muscular dystrophy. Journal of Cell Science, 2001, 114, 4447-4457.	1.2	203
64	Recombinant Nup153 Incorporates in Vivo into Xenopus Oocyte Nuclear Pore Complexes. Journal of Structural Biology, 2000, 129, 306-312.	1.3	21
65	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
66	Function and assembly of nuclear pore complex proteins. Biochemistry and Cell Biology, 1999, 77, 321-329.	0.9	23
67	Amino-terminal sequences that direct nucleoporin Nup153 to the inner surface of the nuclear envelope. Chromosoma, 1998, 107, 228-236.	1.0	48
68	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
69	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
70	Chapter 16 Cell-Free Nuclear Reassembly in Mammalian Mitotic Homogenates. Methods in Cell Biology, 1997, 53, 357-366.	0.5	3
71	Cytoskeletonâ€"membrane interactions. Current Opinion in Cell Biology, 1996, 8, 56-65.	2.6	221
72	Elementary Immunology. , 1993, , 204-236.		0

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73	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
74	On the cell-free association of lamins A and C with metaphase chromosomes. Experimental Cell Research, 1990, 186, 169-176.	1.2	105
75	Functional Organization of the Nuclear Envelope. Annual Review of Cell Biology, 1988, 4, 335-374.	26.0	631
76	Nuclear Envelope Dynamics During Mitosis. Proceedings Annual Meeting Electron Microscopy Society of America, 1988, 46, 224-225.	0.0	0
77	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
78	A cell free system to study reassembly of the nuclear envelope at the end of mitosis. Cell, 1986, 44, 639-652.	13.5	407
79	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