

G W Gant Luxton

List of Publications by Year in descending order

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36
papers

2,232
citations

361413

20
h-index

361022

35
g-index

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all docs

45
docs citations

45
times ranked

2140
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear Arrays of Nuclear Envelope Proteins Harness Retrograde Actin Flow for Nuclear Movement. <i>Science</i> , 2010, 329, 956-959.	12.6	416
2	Ubiquitination of both Adeno-Associated Virus Type 2 and 5 Capsid Proteins Affects the Transduction Efficiency of Recombinant Vectors. <i>Journal of Virology</i> , 2002, 76, 2043-2053.	3.4	200
3	Targeting of herpesvirus capsid transport in axons is coupled to association with specific sets of tegument proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5832-5837.	7.1	187
4	Lamin A variants that cause striated muscle disease are defective in anchoring transmembrane actin-associated nuclear lines for nuclear movement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 131-136.	7.1	157
5	Orientation and function of the nuclear centrosomal axis during cell migration. <i>Current Opinion in Cell Biology</i> , 2011, 23, 579-588.	5.4	145
6	KASHing up with the nucleus: novel functional roles of KASH proteins at the cytoplasmic surface of the nucleus. <i>Current Opinion in Cell Biology</i> , 2014, 28, 69-75.	5.4	120
7	The Pseudorabies Virus VP1/2 Tegument Protein Is Required for Intracellular Capsid Transport. <i>Journal of Virology</i> , 2006, 80, 201-209.	3.4	116
8	TAN lines. <i>Nucleus</i> , 2011, 2, 173-181.	2.2	110
9	FHOD1 interaction with nesprin-2G mediates TAN line formation and nuclear movement. <i>Nature Cell Biology</i> , 2014, 16, 708-715.	10.3	103
10	Mechanism of microtubule lumen entry for the γ -tubulin acetyltransferase enzyme γ TAT1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7176-E7184.	7.1	95
11	TorsinA controls TAN line assembly and the retrograde flow of dorsal perinuclear actin cables during rearward nuclear movement. <i>Journal of Cell Biology</i> , 2017, 216, 657-674.	5.2	66
12	Identification of an Essential Domain in the Herpesvirus VP1/2 Tegument Protein: the Carboxy Terminus Directs Incorporation into Capsid Assemblons. <i>Journal of Virology</i> , 2006, 80, 12086-12094.	3.4	52
13	Conserved SUN-KASH Interfaces Mediate LINC Complex-Dependent Nuclear Movement and Positioning. <i>Current Biology</i> , 2018, 28, 3086-3097.e4.	3.9	52
14	Imbalanced nucleocytoskeletal connections create common polarity defects in progeria and physiological aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3578-3583.	7.1	52
15	Fluorescence fluctuation spectroscopy reveals differential SUN protein oligomerization in living cells. <i>Molecular Biology of the Cell</i> , 2018, 29, 1003-1011.	2.1	39
16	Molecular Insights into the Mechanisms of SUN1 Oligomerization in the Nuclear Envelope. <i>Biophysical Journal</i> , 2018, 114, 1190-1203.	0.5	35
17	Nuclear lamin isoforms differentially contribute to LINC complex-dependent nucleocytoskeletal coupling and whole-cell mechanics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2121816119.	7.1	33
18	Contractile acto-myosin network on nuclear envelope remnants positions human chromosomes for mitosis. <i>ELife</i> , 2019, 8, .	6.0	30

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19	A pUL25 dimer interfaces the pseudorabies virus capsid and tegument. <i>Journal of General Virology</i> , 2017, 98, 2837-2849.	2.9	27
20	HDAC6-Pack: Cortactin Acetylation Joins the Brew. <i>Developmental Cell</i> , 2007, 13, 161-162.	7.0	24
21	MyTH4-FERM myosins have an ancient and conserved role in filopod formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8059-E8068.	7.1	24
22	Quantitative Brightness Analysis of Protein Oligomerization in the Nuclear Envelope. <i>Biophysical Journal</i> , 2017, 113, 138-147.	0.5	24
23	LINCing Defective Nuclear-Cytoskeletal Coupling and DYT1 Dystonia. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 207-216.	2.1	18
24	Cellular Microbiaxial Stretching to Measure a Single-Cell Strain Energy Density Function. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	17
25	A synthetic biology platform for the reconstitution and mechanistic dissection of LINC complex assembly. <i>Journal of Cell Science</i> , 2018, 132, .	2.0	16
26	DYT1 Dystonia Patient-Derived Fibroblasts Have Increased Deformability and Susceptibility to Damage by Mechanical Forces. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 103.	3.7	14
27	Investigating LINC Complex Protein Homo-oligomerization in the Nuclear Envelopes of Living Cells Using Fluorescence Fluctuation Spectroscopy. <i>Methods in Molecular Biology</i> , 2018, 1840, 121-135.	0.9	10
28	Protein oligomerization and mobility within the nuclear envelope evaluated by the time-shifted mean-segmented Q factor. <i>Methods</i> , 2019, 157, 28-41.	3.8	10
29	Function of Torsin AAA+ ATPases in Pseudorabies Virus Nuclear Egress. <i>Cells</i> , 2020, 9, 738.	4.1	9
30	<i>In Vitro</i> Synthesis and Reconstitution Using Mammalian Cell-Free Lysates Enables the Systematic Study of the Regulation of LINC Complex Assembly. <i>Biochemistry</i> , 2022, 61, 1495-1507.	2.5	8
31	Identifying Heteroprotein Complexes in the Nuclear Envelope. <i>Biophysical Journal</i> , 2020, 118, 26-35.	0.5	4
32	Building Bridges toward Invasion: Tumor Promoter Treatment Induces a Novel Protein Kinase C-Dependent Phenotype in MCF10A Mammary Cell Acini. <i>PLoS ONE</i> , 2014, 9, e90722.	2.5	3
33	Whole Exome Sequencing Identifies a Novel Homozygous Missense Mutation in the CSB Protein-Encoding ERCC6 Gene in a Taiwanese Boy with Cockayne Syndrome. <i>Life</i> , 2021, 11, 1230.	2.4	2
34	A Special Topic on Nuclear Mechanobiology. <i>Cellular and Molecular Bioengineering</i> , 2016, 9, 203-206.	2.1	1
35	Differentiating Luminal and Membrane-Associated Nuclear Envelope Proteins. <i>Biophysical Journal</i> , 2020, 118, 2385-2399.	0.5	1
36	Nesprin-2G tension fine-tunes Wnt/ β -catenin signaling. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	1