G W Gant Luxton

List of Publications by Year
in descending order

36 papers	2,232 citations	361413 20 h-index	361022 35 g-index
45 all docs	45 docs citations	45 times ranked	2140 citing authors

#	Article	IF	Citations
1	Nuclear lamin isoforms differentially contribute to LINC complex-dependent nucleocytoskeletal coupling and whole-cell mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121816119.	7.1	33
2	<i>In Vitro</i> Synthesis and Reconstitution Using Mammalian Cell-Free Lysates Enables the Systematic Study of the Regulation of LINC Complex Assembly. Biochemistry, 2022, 61, 1495-1507.	2.5	8
3	Whole Exome Sequencing Identifies a Novel Homozygous Missense Mutation in the CSB Protein-Encoding ERCC6 Gene in a Taiwanese Boy with Cockayne Syndrome. Life, 2021, 11, 1230.	2.4	2
4	Identifying Heteroprotein Complexes in the Nuclear Envelope. Biophysical Journal, 2020, 118, 26-35.	0.5	4
5	Differentiating Luminal and Membrane-Associated Nuclear Envelope Proteins. Biophysical Journal, 2020, 118, 2385-2399.	0.5	1
6	Function of Torsin AAA+ ATPases in Pseudorabies Virus Nuclear Egress. Cells, 2020, 9, 738.	4.1	9
7	Nesprin-2G tension fine-tunes Wnt/Î²-catenin signaling. Journal of Cell Biology, 2020, 219, .	5.2	1
8	DYT1 Dystonia Patient-Derived Fibroblasts Have Increased Deformability and Susceptibility to Damage by Mechanical Forces. Frontiers in Cell and Developmental Biology, 2019, 7, 103.	3.7	14
9	Imbalanced nucleocytoskeletal connections create common polarity defects in progeria and physiological aging. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3578-3583.	7.1	52
10	Protein oligomerization and mobility within the nuclear envelope evaluated by the time-shifted mean-segmented Q factor. Methods, 2019, 157, 28-41.	3.8	10
11	Contractile acto-myosin network on nuclear envelope remnants positions human chromosomes for mitosis. ELife, 2019, 8, .	6.0	30
12	Fluorescence fluctuation spectroscopy reveals differential SUN protein oligomerization in living cells. Molecular Biology of the Cell, 2018, 29, 1003-1011.	2.1	39
13	Molecular Insights into the Mechanisms of SUN1 Oligomerization in the Nuclear Envelope. Biophysical Journal, 2018, 114, 1190-1203.	0.5	35
14	A synthetic biology platform for the reconstitution and mechanistic dissection of LINC complex assembly. Journal of Cell Science, 2018, 132, .	2.0	16
15	Conserved SUN-KASH Interfaces Mediate LINC Complex-Dependent Nuclear Movement and Positioning. Current Biology, 2018, 28, 3086-3097.e4.	3.9	52
16	Investigating LINC Complex Protein Homo-oligomerization in the Nuclear Envelopes of Living Cells Using Fluorescence Fluctuation Spectroscopy. Methods in Molecular Biology, 2018, 1840, 121-135.	0.9	10
17	TorsinA controls TAN line assembly and the retrograde flow of dorsal perinuclear actin cables during rearward nuclear movement. Journal of Cell Biology, 2017, 216, 657-674.	5.2	66
18	Cellular Microbiaxial Stretching to Measure a Single-Cell Strain Energy Density Function. Journal of Biomechanical Engineering, 2017, 139, .	1.3	17

#	Article	IF	Citations
19	Quantitative Brightness Analysis of Protein Oligomerization in the Nuclear Envelope. Biophysical Journal, 2017, 113, 138-147.	0.5	24
20	A pUL25 dimer interfaces the pseudorabies virus capsid and tegument. Journal of General Virology, 2017, 98, 2837-2849.	2.9	27
21	MyTH4-FERM myosins have an ancient and conserved role in filopod formation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8059-E8068.	7.1	24
22	Mechanism of microtubule lumen entry for the Î±-tubulin acetyltransferase enzyme Î±TAT1. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7176-E7184.	7.1	95
23	A Special Topic on Nuclear Mechanobiology. Cellular and Molecular Bioengineering, 2016, 9, 203-206.	2.1	1
24	LINCing Defective Nuclear-Cytoskeletal Coupling and DYT1 Dystonia. Cellular and Molecular Bioengineering, 2016, 9, 207-216.	2.1	18
25	Building Bridges toward Invasion: Tumor Promoter Treatment Induces a Novel Protein Kinase C-Dependent Phenotype in MCF10A Mammary Cell Acini. PLoS ONE, 2014, 9, e90722.	2.5	3
26	FHOD1 interaction with nesprin-2G mediates TAN line formation and nuclear movement. Nature Cell Biology, 2014, 16, 708-715.	10.3	103
27	KASHing up with the nucleus: novel functional roles of KASH proteins at the cytoplasmic surface of the nucleus. Current Opinion in Cell Biology, 2014, 28, 69-75.	5.4	120
28	Orientation and function of the nuclearâ€"centrosomal axis during cell migration. Current Opinion in Cell Biology, 2011, 23, 579-588.	5.4	145
29	TAN lines. Nucleus, 2011, 2, 173-181.	2.2	110
30	Lamin A variants that cause striated muscle disease are defective in anchoring transmembrane actin-associated nuclear lines for nuclear movement. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 131-136.	7.1	157
31	Linear Arrays of Nuclear Envelope Proteins Harness Retrograde Actin Flow for Nuclear Movement. Science, 2010, 329, 956-959.	12.6	416
32	HDAC6-Pack: Cortactin Acetylation Joins the Brew. Developmental Cell, 2007, 13, 161-162.	7.0	24
33	The Pseudorabies Virus VP1/2 Tegument Protein Is Required for Intracellular Capsid Transport. Journal of Virology, 2006, 80, 201-209.	3.4	116
34	Identification of an Essential Domain in the Herpesvirus VP1/2 Tegument Protein: the Carboxy Terminus Directs Incorporation into Capsid Assemblons. Journal of Virology, 2006, 80, 12086-12094.	3.4	52
35	Targeting of herpesvirus capsid transport in axons is coupled to association with specific sets of tegument proteins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5832-5837.	7.1	187
36	Ubiquitination of both Adeno-Associated Virus Type 2 and 5 Capsid Proteins Affects the Transduction Efficiency of Recombinant Vectors. Journal of Virology, 2002, 76, 2043-2053.	3.4	200