Eric C Schirmer

List of Publications by Year
in descending order

89	5,081	35	68
papers	citations	h-index	g-index
		109321	95266

97	97	97	4963
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nuclear Membrane Proteins with Potential Disease Links Found by Subtractive Proteomics. Science, 2003, 301, 1380-1382.	12.6	604
2	HSP100/Clp proteins: a common mechanism explains diverse functions. Trends in Biochemical Sciences, 1996, 21, 289-296.	7.5	585
3	The nuclear envelope proteome differs notably between tissues. Nucleus, 2012, 3, 552-564.	2.2	177
4	Tissue-Specific Gene Repositioning by Muscle Nuclear Membrane Proteins Enhances Repression of Critical Developmental Genes during Myogenesis. Molecular Cell, 2016, 62, 834-847.	9.7	165
5	Proteins that associate with lamins: Many faces, many functions. Experimental Cell Research, 2007, 313, 2167-2179.	2.6	159
6	Energy- and temperature-dependent transport of integral proteins to the inner nuclear membrane via the nuclear pore. Journal of Cell Biology, 2004, 167, 1051-1062.	5.2	131
7	Involvement of the Lamin Rod Domain in Heterotypic Lamin Interactions Important for Nuclear Organization. Journal of Cell Biology, 2001, 153, 479-490.	5.2	128
8	The nuclear membrane proteome: extending the envelope. Trends in Biochemical Sciences, 2005, 30, 551-558.	7.5	125
9	Defining a Pathway of Communication from the C-Terminal Peptide Binding Domain to the N-Terminal ATPase Domain in a AAA Protein. Molecular Cell, 2002, 9, 751-760.	9.7	120
10	The Leukocyte Nuclear Envelope Proteome Varies with Cell Activation and Contains Novel Transmembrane Proteins That Affect Genome Architecture. Molecular and Cellular Proteomics, 2010, 9, 2571-2585.	3.8	120
11	Nup50, a Nucleoplasmically Oriented Nucleoporin with a Role in Nuclear Protein Export. Molecular and Cellular Biology, 2000, 20, 5619-5630.	2.3	118
12	Several Novel Nuclear Envelope Transmembrane Proteins Identified in Skeletal Muscle Have Cytoskeletal Associations. Molecular and Cellular Proteomics, 2011, 10, M110.003129.	3.8	118
13	Whole-epigenome analysis in multiple myeloma reveals DNA hypermethylation of B cell-specific enhancers. Genome Research, 2015, 25, 478-487.	5.5	118
14	Specific nuclear envelope transmembrane proteins can promote the location of chromosomes to and from the nuclear periphery. Genome Biology, 2013, 14, R14.	9.6	116
15	The ATPase Activity of Hsp104, Effects of Environmental Conditions and Mutations. Journal of Biological Chemistry, 1998, 273, 15546-15552.	3.4	113
16	Dominant Gain-of-Function Mutations in Hsp104p Reveal Crucial Roles for the Middle Region. Molecular Biology of the Cell, 2004, 15, 2061-2072.	2.1	106
17	System analysis shows distinct mechanisms and common principles of nuclear envelope protein dynamics. Journal of Cell Biology, 2011, 193, 109-123.	5.2	97
18	Constrained release of lamina-associated enhancers and genes from the nuclear envelope during T-cell activation facilitates their association in chromosome compartments. Genome Research, 2017, 27, 1126-1138.	5.5	97

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19	Cell-specific and lamin-dependent targeting of novel transmembrane proteins in the nuclear envelope. Cellular and Molecular Life Sciences, 2010, 67, 1353-1369.	5.4	92
20	The nuclear envelope as a chromatin organizer. Nucleus, 2011, 2, 339-349.	2.2	92
21	Nuclear membrane diversity: underlying tissue-specific pathologies in disease?. Current Opinion in Cell Biology, 2015, 34, 101-112.	5.4	89
22	Tissue specificity in the nuclear envelope supports its functional complexity. Nucleus, 2013, 4, 460-477.	2.2	77
23	Cancer biology and the nuclear envelope: A convoluted relationship. Seminars in Cancer Biology, 2013, 23, 125-137.	9.6	75
24	The Stability of the Nuclear Lamina Polymer Changes with the Composition of Lamin Subtypes According to Their Individual Binding Strengths. Journal of Biological Chemistry, 2004, 279, 42811-42817.	3.4	74
25	MudPIT: A powerful proteomics tool for discovery. Discovery Medicine, 2003, 3, 38-9.	0.5	66
26	The replication of viral and cellular DNA in human herpesvirus 6-infected cells. Virology, 1990, 175, 199-210.	2.4	65
27	LINC'ing form and function at the nuclear envelope. FEBS Letters, 2015, 589, 2514-2521.	2.8	65
28	TMEM120A and B: Nuclear Envelope Transmembrane Proteins Important for Adipocyte Differentiation. PLoS ONE, 2015, 10, e0127712.	2.5	60
29	Mitotic post-translational modifications of histones promote chromatin compaction <i>in vitro</i>. Open Biology, 2017, 7, 170076.	3.6	56
30	Anchoring a Leviathan: How the Nuclear Membrane Tethers the Genome. Frontiers in Genetics, 2016, 7, 82.	2.3	53
31	The Nuclear Envelope and Cancer: A Diagnostic Perspective and Historical Overview. Advances in Experimental Medicine and Biology, 2014, 773, 5-26.	1.6	47
32	Many mechanisms, one entrance: membrane protein translocation into the nucleus. Cellular and Molecular Life Sciences, 2012, 69, 2205-2216.	5.4	46
33	The apparent absence of lamin B1 and emerin in many tissue nuclei is due to epitope masking. Journal of Molecular Histology, 2005, 36, 337-344.	2.2	45
34	Herpes Simplex Virus ICP27 Protein Directly Interacts with the Nuclear Pore Complex through Nup62, Inhibiting Host Nucleocytoplasmic Transport Pathways. Journal of Biological Chemistry, 2012, 287, 12277-12292.	3.4	42
35	Lamin A molecular compression and sliding as mechanisms behind nucleoskeleton elasticity. Nature Communications, 2019, 10, 3056.	12.8	41
36	A multistage sequencing strategy pinpoints novel candidate alleles for Emery-Dreifuss muscular dystrophy and supports gene misregulation as its pathomechanism. EBioMedicine, 2020, 51, 102587.	6.1	40

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37	An Arabidopsis Heat Shock Protein Complements a Thermotolerance Defect in Yeast. Plant Cell, 1994, 6, 1899.	6.6	36
38	Tissue-specific NETs alter genome organization and regulation even in a heterologous system. Nucleus, 2017, 8, 81-97.	2.2	35
39	Inner nuclear membrane protein transport is mediated by multiple mechanisms. Biochemical Society Transactions, 2008, 36, 1373-1377.	3.4	34
40	Single-point single-molecule FRAP distinguishes inner and outer nuclear membrane protein distribution. Nature Communications, 2016, 7, 12562.	12.8	33
41	Guilt by Association. Molecular and Cellular Proteomics, 2006, 5, 1865-1875.	3.8	27
42	Telomere elongation through hTERT immortalization leads to chromosome repositioning in control cells and genomic instability in Hutchinsonâ€Gilford progeria syndrome fibroblasts, expressing a novel SUN1 isoform. Genes Chromosomes and Cancer, 2019, 58, 341-356.	2.8	27
43	Nuclear Envelope: Connecting Structural Genome Organization to Regulation of Gene Expression. Advances in Experimental Medicine and Biology, 2014, 773, 209-244.	1.6	26
44	Comparative proteomic analyses of the nuclear envelope and pore complex suggests a wide range of heretofore unexpected functions. Journal of Proteomics, 2009, 72, 56-70.	2.4	24
45	Genomic loci mispositioning in Tmem120a knockout mice yields latent lipodystrophy. Nature Communications, 2022, 13, 321.	12.8	24
46	NET23/STING Promotes Chromatin Compaction from the Nuclear Envelope. PLoS ONE, 2014, 9, e111851.	2.5	23
47	Spatial Genome Organization: From Development to Disease. Frontiers in Cell and Developmental Biology, 2019, 7, 18.	3.7	23
48	Nucleoplasmic signals promote directed transmembrane protein import simultaneously via multiple channels of nuclear pores. Nature Communications, 2020, 11, 2184.	12.8	22
49	STING nuclear partners contribute to innate immune signaling responses. IScience, 2021, 24, 103055.	4.1	22
50	Abnormal proliferation and spontaneous differentiation of myoblasts from a symptomatic female carrier of X-linked Emeryâ€"Dreifuss muscular dystrophy. Neuromuscular Disorders, 2015, 25, 127-136.	0.6	21
51	Purification of Nuclei and Preparation of Nuclear Envelopes from Skeletal Muscle. Methods in Molecular Biology, 2008, 463, 23-41.	0.9	21
52	A Flow Cytometry-Based Screen of Nuclear Envelope Transmembrane Proteins Identifies NET4/Tmem53 as Involved in Stress-Dependent Cell Cycle Withdrawal. PLoS ONE, 2011, 6, e18762.	2.5	21
53	Use of Sequential Chemical Extractions to Purify Nuclear Membrane Proteins for Proteomics Identification. Methods in Molecular Biology, 2009, 528, 201-225.	0.9	20
54	The increasing relevance of nuclear envelope myopathies. Current Opinion in Neurology, 2016, 29, 651-661.	3.6	19

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55	Casting a Wider Net: Differentiating between Inner Nuclear Envelope and Outer Nuclear Envelope Transmembrane Proteins. International Journal of Molecular Sciences, 2019, 20, 5248.	4.1	19
56	[34] Purification and properties of Hsp104 from yeast. Methods in Enzymology, 1998, 290, 430-444.	1.0	17
57	Subcellular Fractionation and Proteomics of Nuclear Envelopes. Methods in Molecular Biology, 2008, 432, 117-137.	0.9	16
58	Immunohistochemistry on a panel of Emeryâ€"Dreifuss muscular dystrophy samples reveals nuclear envelope proteins as inconsistent markers for pathology. Neuromuscular Disorders, 2017, 27, 338-351.	0.6	15
59	The Application of DamID to Identify Peripheral Gene Sequences in Differentiated and Primary Cells. Methods in Molecular Biology, 2016, 1411, 359-386.	0.9	14
60	The cell-wide web coordinates cellular processes by directing site-specific Ca2+ flux across cytoplasmic nanocourses. Nature Communications, 2019, 10, 2299.	12.8	14
61	Organelle Proteome Variation Among Different Cell Types: Lessons from Nuclear Membrane Proteins. , 2007, 43, 51-76.		14
62	Organellar proteomics: the prizes and pitfalls of opening the nuclear envelope. Genome Biology, 2002, 3, reviews1008.1.	9.6	13
63	The epigenetics of nuclear envelope organization and disease. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 647, 112-121.	1.0	13
64	Host Vesicle Fusion Protein VAPB Contributes to the Nuclear Egress Stage of Herpes Simplex Virus Type-1 (HSV-1) Replication. Cells, 2019, 8, 120.	4.1	13
65	Chemical Interrogation of Nuclear Size Identifies Compounds with Cancer Cell Line-Specific Effects on Migration and Invasion. ACS Chemical Biology, 2022, 17, 680-700.	3.4	12
66	Identification of Novel Integral Membrane Proteins of the Nuclear Envelope with Potential Disease Links Using Subtractive Proteomics. Novartis Foundation Symposium, 2008, , 63-80.	1.1	11
67	The NEMP family supports metazoan fertility and nuclear envelope stiffness. Science Advances, 2020, 6, eabb4591.	10.3	11
68	Breaking the scale: how disrupting the karyoplasmic ratio gives cancer cells an advantage for metastatic invasion. Biochemical Society Transactions, 2017, 45, 1333-1344.	3.4	10
69	Analysis of RNA-Seq datasets reveals enrichment of tissue-specific splice variants for nuclear envelope proteins. Nucleus, 2018, 9, 410-430.	2.2	10
70	Optimization of DamID for use in primary cultures of mouse hepatocytes. Methods, 2019, 157, 88-99.	3.8	10
71	FG repeats facilitate integral protein trafficking to the inner nuclear membrane. Communicative and Integrative Biology, 2011, 4, 557-559.	1.4	8
72	Microinjection of Antibodies Targeting the Lamin A/C Histone-Binding Site Blocks Mitotic Entry and Reveals Separate Chromatin Interactions with HP1, CenpB and PML. Cells, 2017, 6, 9.	4.1	8

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73	Nuclear envelope influences on genome organization. Biochemical Society Transactions, 2010, 38, 268-272.	3.4	7
74	Isolation, Proteomic Analysis, and Microscopy Confirmation of the Liver Nuclear Envelope Proteome. Methods in Molecular Biology, 2016, 1411, 3-44.	0.9	7
75	Identification of novel integral membrane proteins of the nuclear envelope with potential disease links using subtractive proteomics. Novartis Foundation Symposium, 2005, 264, 63-76; discussion 76-80, 227-30.	1.1	7
76	Nuclear envelope influences on cell-cycle progression. Biochemical Society Transactions, 2011, 39, 1742-1746.	3.4	6
77	FG repeats facilitate integral protein trafficking to the inner nuclear membrane. Communicative and Integrative Biology, 2011, 4, 557-9.	1.4	6
78	Purification of Lamins and Soluble Fragments of NETs. Methods in Enzymology, 2016, 569, 79-100.	1.0	4
79	Tm7sf2 Disruption Alters Radial Gene Positioning in Mouse Liver Leading to Metabolic Defects and Diabetes Characteristics. Frontiers in Cell and Developmental Biology, 2020, 8, 592573.	3.7	4
80	Lipids contribute to epigenetic control via chromatin structure and functions. ScienceOpen Research, 2015, .	0.6	4
81	Reduction of a 4q35-encoded nuclear envelope protein in muscle differentiation. Biochemical and Biophysical Research Communications, 2009, 389, 279-283.	2.1	3
82	NETs and Cell Cycle Regulation. Advances in Experimental Medicine and Biology, 2014, 773, 165-185.	1.6	3
83	Considering Discrete Protein Pools when Measuring the Dynamics of Nuclear Membrane Proteins. Methods in Molecular Biology, 2013, 1042, 275-298.	0.9	3
84	Nucleoskeleton dynamics and functions in health and disease. Cell Health and Cytoskeleton, 2015, , 55.	0.7	2
85	Lipids contribute to epigenetic control via chromatin structure and functions. ScienceOpen Research, 2015, .	0.6	1
86	Spatial Organization of the Nucleus Compartmentalizes and Regulates the Genome. , 2018, , 1-34.		0
87	Navigating the Nuclear Envelope: One or Multiple Transport Mechanisms for Integral Membrane Proteins?. Nucleic Acids and Molecular Biology, 2018, , 151-177.	0.2	0
88	Whole-Genome Epigenomic Analysis in Multiple Myeloma Reveals DNA Hypermethylation of B-Cell Specific Enhancers. Blood, 2014, 124, 2032-2032.	1.4	0
89	Nuclear organization and dynamics: The final Frontier for understanding genome regulation. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	0