

M Neal Waxham

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

5,231
citations

41
h-index

71
g-index

98
ext. papers

5,766
ext. citations

6.2
avg. IF

5.38
L-index

#	Paper	IF	Citations
95	Calmodulin, Models of 2022 , 670-673		
94	Lipidomic atlas of mammalian cell membranes reveals hierarchical variation induced by culture conditions, subcellular membranes, and cell lineages. <i>Soft Matter</i> , 2021 , 17, 288-297	3.6	25
93	The role of the Arp2/3 complex in shaping the dynamics and structures of branched actomyosin networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10825-10831	11.5	12
92	Molecular Dynamics Ensemble Refinement of Intrinsically Disordered Peptides According to Deconvoluted Spectra from Circular Dichroism. <i>Biophysical Journal</i> , 2020 , 118, 1665-1678	2.9	10
91	Novel phospho-switch function of delta-catenin in dendrite development. <i>Journal of Cell Biology</i> , 2020 , 219,	7.3	6
90	Loss of PTEN-induced kinase 1 (Pink1) reduces hippocampal tyrosine hydroxylase and impairs learning and memory. <i>Experimental Neurology</i> , 2020 , 323, 113081	5.7	6
89	The ubiquitin ligase UBE4B regulates amyloid precursor protein ubiquitination, endosomal trafficking, and amyloid β 2 generation and secretion. <i>Molecular and Cellular Neurosciences</i> , 2020 , 108, 103542	4.8	7
88	Direct label-free imaging of nanodomains in biomimetic and biological membranes by cryogenic electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 19943-19952	11.5	35
87	Exploring the F-actin/CPEB3 interaction and its possible role in the molecular mechanism of long-term memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 22128-22134	11.5	4
86	On the Mechanism of Bilayer Separation by Extrusion, or Why Your LUVs Are Not Really Unilamellar. <i>Biophysical Journal</i> , 2019 , 117, 1381-1386	2.9	37
85	Assemblies of calcium/calmodulin-dependent kinase II with actin and their dynamic regulation by calmodulin in dendritic spines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 18937-18942	11.5	17
84	Distinct mechanisms enable inward or outward budding from late endosomes/multivesicular bodies. <i>Experimental Cell Research</i> , 2018 , 372, 1-15	4.2	4
83	Visualization of the type III secretion mediated -host cell interface using cryo-electron tomography. <i>ELife</i> , 2018 , 7,	8.9	62
82	Morphology of mitochondria in spatially restricted axons revealed by cryo-electron tomography. <i>PLoS Biology</i> , 2018 , 16, e2006169	9.7	28
81	Cytoskeletal-like Filaments of Ca-Calmodulin-Dependent Protein Kinase II Are Formed in a Regulated and Zn-Dependent Manner. <i>Biochemistry</i> , 2017 , 56, 2149-2160	3.2	4
80	Spatiotemporal Analysis of K-Ras Plasma Membrane Interactions Reveals Multiple High Order Homo-oligomeric Complexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13466-13475	16.4	49
79	Remodeling of the postsynaptic plasma membrane during neural development. <i>Molecular Biology of the Cell</i> , 2016 , 27, 3480-3489	3.5	65

78	Domain Stability in Biomimetic Membranes Driven by Lipid Polyunsaturation. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 11930-11941	3.4	45
77	Altered Mitochondrial Dynamics and TBI Pathophysiology. <i>Frontiers in Systems Neuroscience</i> , 2016 , 10, 29	3.5	82
76	Relative Cosolute Size Influences the Kinetics of Protein-Protein Interactions. <i>Biophysical Journal</i> , 2015 , 109, 510-20	2.9	10
75	Electron tomographic structure and protein composition of isolated rat cerebellar, hippocampal and cortical postsynaptic densities. <i>Neuroscience</i> , 2015 , 304, 286-301	3.9	9
74	Lessons in Protein Design from Combined Evolution and Conformational Dynamics. <i>Scientific Reports</i> , 2015 , 5, 14259	4.9	10
73	Conformational frustration in calmodulin-target recognition. <i>Journal of Molecular Recognition</i> , 2015 , 28, 74-86	2.6	16
72	Precisely tunable engineering of sub-30 nm monodisperse oligonucleotide nanoparticles. <i>Journal of the American Chemical Society</i> , 2014 , 136, 234-40	16.4	22
71	Neurotransmitter Receptors 2014 , 285-321		1
70	Domain contributions to signaling specificity differences between Ras-guanine nucleotide releasing factor (Ras-GRF) 1 and Ras-GRF2. <i>Journal of Biological Chemistry</i> , 2014 , 289, 16551-64	5.4	7
69	Neurogranin alters the structure and calcium binding properties of calmodulin. <i>Journal of Biological Chemistry</i> , 2014 , 289, 14644-55	5.4	41
68	Calcium-calmodulin-dependent protein kinase II isoforms differentially impact the dynamics and structure of the actin cytoskeleton. <i>Biochemistry</i> , 2013 , 52, 1198-207	3.2	50
67	Protein recognition and selection through conformational and mutually induced fit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20545-50	11.5	41
66	Neurotransmitter Receptors 2013 , 163-187		
65	Electron cryotomography of postsynaptic densities during development reveals a mechanism of assembly. <i>Neuroscience</i> , 2012 , 212, 19-29	3.9	7
64	The impacts of geometry and binding on CaMKII diffusion and retention in dendritic spines. <i>Journal of Computational Neuroscience</i> , 2011 , 31, 1-12	1.4	33
63	The effect of macromolecular crowding, ionic strength and calcium binding on calmodulin dynamics. <i>PLoS Computational Biology</i> , 2011 , 7, e1002114	5	51
62	Quantifying translational mobility in neurons: comparison between current optical techniques. <i>Journal of Neuroscience</i> , 2010 , 30, 16409-16	6.6	17
61	Lobe specific Ca ²⁺ -calmodulin nano-domain in neuronal spines: a single molecule level analysis. <i>PLoS Computational Biology</i> , 2010 , 6, e1000987	5	18

60	Transient anomalous subdiffusion: effects of specific and nonspecific probe binding with actin gels. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 959-72	3.4	13
59	Cellular dynamic simulator: an event driven molecular simulation environment for cellular physiology. <i>Neuroinformatics</i> , 2010 , 8, 63-82	3.2	31
58	Structure and composition of the postsynaptic density during development. <i>Journal of Comparative Neurology</i> , 2010 , 518, 4243-60	3.4	36
57	Photounbinding of calmodulin from a family of CaM binding peptides. <i>PLoS ONE</i> , 2010 , 5, e14050	3.7	3
56	{beta}CaMKII regulates actin assembly and structure. <i>Journal of Biological Chemistry</i> , 2009 , 284, 9770-80	5.4	55
55	Dissecting cooperative calmodulin binding to CaM kinase II: a detailed stochastic model. <i>Journal of Computational Neuroscience</i> , 2009 , 27, 621-38	1.4	21
54	Modulation of calmodulin plasticity by the effect of macromolecular crowding. <i>Journal of Molecular Biology</i> , 2009 , 391, 933-43	6.5	49
53	Macromolecular crowding and size effects on probe microviscosity. <i>Biophysical Journal</i> , 2008 , 95, 5362-73	9	78
52	Spatial diffusivity and availability of intracellular calmodulin. <i>Biophysical Journal</i> , 2008 , 95, 6002-15	2.9	37
51	IQ-motif proteins influence intracellular free Ca ²⁺ in hippocampal neurons through their interactions with calmodulin. <i>Journal of Neurophysiology</i> , 2008 , 99, 264-76	3.2	23
50	Role of the N- and C-lobes of calmodulin in the activation of Ca(2+)/calmodulin-dependent protein kinase II. <i>Biochemistry</i> , 2008 , 47, 10587-99	3.2	31
49	Conformational changes of calmodulin upon Ca ²⁺ binding studied with a microfluidic mixer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 542-7	11.5	93
48	Acidic/IQ motif regulator of calmodulin. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1401-1410	5.4	28
47	Ca(2+)/calmodulin-dependent protein kinases. <i>Cellular and Molecular Life Sciences</i> , 2008 , 65, 2637-57	10.3	223
46	Multiple diffusion mechanisms due to nanostructuring in crowded environments. <i>Biophysical Journal</i> , 2007 , 92, 313-22	2.9	67
45	Neurogranin controls the spatiotemporal pattern of postsynaptic Ca ²⁺ /CaM signaling. <i>Biophysical Journal</i> , 2007 , 93, 3848-59	2.9	42
44	Molecular Mobility in Cells Examined with Optical Methods 2007 , 3-27		1
43	The endosome-associated protein Hrs is hexameric and controls cargo sorting as a "master molecule". <i>Structure</i> , 2006 , 14, 661-71	5.2	25

42	Peak two-photon molecular brightness of fluorophores is a robust measure of quantum efficiency and photostability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006 , 23, 1420	1.7	12
41	Kinetics of calmodulin binding to calcineurin. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 674-80	3.4	63
40	Two-photon cross-correlation analysis of intracellular reactions with variable stoichiometry. <i>Biophysical Journal</i> , 2005 , 88, 4319-36	2.9	101
39	A novel Monte Carlo simulation for molecular interactions and diffusion in postsynaptic spines. <i>Neurocomputing</i> , 2005 , 65-66, 595-602	5.4	1
38	A mechanism for Ca ²⁺ /calmodulin-dependent protein kinase II clustering at synaptic and nonsynaptic sites based on self-association. <i>Journal of Neuroscience</i> , 2005 , 25, 6971-83	6.6	125
37	Intracellular calmodulin availability accessed with two-photon cross-correlation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 105-10	11.5	116
36	RC3/Neurogranin and Ca ²⁺ /calmodulin-dependent protein kinase II produce opposing effects on the affinity of calmodulin for calcium. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39374-82	5.4	75
35	Comparative analyses of the three-dimensional structures and enzymatic properties of alpha, beta, gamma and delta isoforms of Ca ²⁺ -calmodulin-dependent protein kinase II. <i>Journal of Biological Chemistry</i> , 2004 , 279, 12484-94	5.4	140
34	Calmodulin and Munc13 form a Ca ²⁺ sensor/effector complex that controls short-term synaptic plasticity. <i>Cell</i> , 2004 , 118, 389-401	56.2	207
33	Focal volume characterization using multiphoton fluorescence correlation spectroscopy (MP-FCS) 2004 , 5323, 146		1
32	A new role for IQ motif proteins in regulating calmodulin function. <i>Journal of Biological Chemistry</i> , 2003 , 278, 49667-70	5.4	86
31	Light scattering and transmission electron microscopy studies reveal a mechanism for calcium/calmodulin-dependent protein kinase II self-association. <i>Journal of Neurochemistry</i> , 2001 , 76, 1364-75	6	37
30	CaM-kinase II dephosphorylates Thr(286) by a reversal of the autophosphorylation reaction. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 282, 773-80	3.4	18
29	Interplay between the gamma isoform of PKC and calcineurin in regulation of vulnerability to focal cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 343-9	7.3	44
28	Skeletal muscle Ca(2+)-independent kinase activity increases during either hypertrophy or running. <i>Journal of Applied Physiology</i> , 2000 , 88, 352-8	3.7	58
27	Three-dimensional reconstructions of calcium/calmodulin-dependent (CaM) kinase IIalpha and truncated CaM kinase IIalpha reveal a unique organization for its structural core and functional domains. <i>Journal of Biological Chemistry</i> , 2000 , 275, 14354-9	5.4	136
26	Skeletal muscle CaMKII enriches in nuclei and phosphorylates myogenic factor SRF at multiple sites. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 270, 488-94	3.4	49
25	Complete reversal of run-down in rabbit cardiac Ca ²⁺ channels by patch-clamping in <i>Xenopus</i> oocytes; partial reversal by protein kinase A. <i>Pflugers Archiv European Journal of Physiology</i> , 1999 , 437, 888-94	4.6	15

24	Identification of domains essential for the assembly of calcium/calmodulin-dependent protein kinase II holoenzymes. <i>Journal of Biological Chemistry</i> , 1998 , 273, 31555-64	5.4	56
23	A mechanism for calmodulin (CaM) trapping by CaM-kinase II defined by a family of CaM-binding peptides. <i>Journal of Biological Chemistry</i> , 1998 , 273, 17579-84	5.4	56
22	Interactions of FLT-1 and KDR with phospholipase C gamma: identification of the phosphotyrosine binding sites. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 240, 635-9	3.4	79
21	Ischemia-induced neuronal damage: a role for calcium/calmodulin-dependent protein kinase II. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996 , 16, 1-6	7.3	89
20	Inactivation and self-association of Ca ²⁺ /calmodulin-dependent protein kinase II during autophosphorylation. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8800-8	5.4	52
19	A peptide model for calmodulin trapping by calcium/calmodulin-dependent protein kinase II. <i>Journal of Biological Chemistry</i> , 1996 , 271, 29619-23	5.4	75
18	Neuronal activity increases the phosphorylation of the transcription factor cAMP response element-binding protein (CREB) in rat hippocampus and cortex. <i>Journal of Biological Chemistry</i> , 1996 , 271, 14214-20	5.4	107
17	Ca ²⁺ /calmodulin kinase II translocates in a hippocampal slice model of ischemia. <i>Journal of Neurochemistry</i> , 1995 , 64, 2147-56	6	39
16	Interaction of the Flt-1 tyrosine kinase receptor with the p85 subunit of phosphatidylinositol 3-kinase. Mapping of a novel site involved in binding. <i>Journal of Biological Chemistry</i> , 1995 , 270, 20254-7	5.4	103
15	Activity of Ca ²⁺ /calmodulin-dependent protein kinase II following ischemia: a comparison between CA1 and dentate gyrus in a hippocampal slice model. <i>Journal of Neurochemistry</i> , 1994 , 63, 2217-24	6	22
14	Calcium/calmodulin-dependent protein kinase II activity in focal ischemia with reperfusion in rats. <i>Stroke</i> , 1994 , 25, 466-73	6.7	45
13	Ca ²⁺ /calmodulin-dependent protein kinase II is phosphorylated by protein kinase C in vitro. <i>Biochemistry</i> , 1993 , 32, 2923-30	3.2	34
12	Neuronal protection and preservation of calcium/calmodulin-dependent protein kinase II and protein kinase C activity by dextrorphan treatment in global ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1993 , 13, 550-7	7.3	29
11	Calcium/calmodulin-dependent protein kinase II regulates hippocampal synaptic transmission. <i>Brain Research</i> , 1993 , 609, 1-8	3.7	46
10	Ischemia-induced translocation of Ca ²⁺ /calmodulin-dependent protein kinase II: potential role in neuronal damage. <i>Journal of Neurochemistry</i> , 1992 , 58, 1743-53	6	129
9	Down-regulation of protein kinase C blocks 5-HT-induced enhancement in Hermissenda B photoreceptors. <i>Neuroscience Letters</i> , 1991 , 121, 107-10	3.3	25
8	An essential role for postsynaptic calmodulin and protein kinase activity in long-term potentiation. <i>Nature</i> , 1989 , 340, 554-7	50.4	1014
7	Identification of amino acids involved in the sialidase activity of the mumps virus hemagglutinin-neuraminidase protein. <i>Virology</i> , 1988 , 167, 226-32	3.6	29

6	Sequence determination of the mumps virus HN gene. <i>Virology</i> , 1988 , 164, 318-25	3.6	39
5	Active site-directed inhibition of Ca ²⁺ /calmodulin-dependent protein kinase type II by a bifunctional calmodulin-binding peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 4991-5	11.5	79
4	Sequence similarities between human immunodeficiency virus gp41 and paramyxovirus fusion proteins. <i>AIDS Research and Human Retroviruses</i> , 1987 , 3, 245-52	1.6	77
3	Antibody response to the rubella virus structural proteins in infants with the congenital rubella syndrome. <i>Journal of Medical Virology</i> , 1986 , 19, 111-22	19.7	24
2	Postembedding immunocytochemical localization of paramyxovirus antigens by light and electron microscopy. <i>Journal of Histochemistry and Cytochemistry</i> , 1982 , 30, 1313-9	3.4	11
1	Direct label-free imaging of nanodomains in biomimetic and biological membranes by cryogenic electron microscopy		1