Joel C Watts

List of Publications by Citations

61	3,408	29	58
papers	citations	h-index	g-index
65	4,002	8.1	5.21
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
61	Evidence for -synuclein prions causing multiple system atrophy in humans with parkinsonism. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5308-17	11.5	450
60	Transmission of multiple system atrophy prions to transgenic mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19555-60	11.5	303
59	Purified and synthetic Alzheimer's amyloid beta (A) prions. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 11025-30	11.5	290
58	Serial propagation of distinct strains of A prions from Alzheimer's disease patients. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10323-8	11.5	214
57	Propagation of prions causing synucleinopathies in cultured cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4949-58	11.5	152
56	The in vivo brain interactome of the amyloid precursor protein. *Molecular and Cellular Proteomics*, **2008**, 7, 15-34	7.6	126
55	Distinct synthetic A prion strains producing different amyloid deposits in bigenic mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10329-34	11.5	124
54	The CNS glycoprotein Shadoo has PrP(C)-like protective properties and displays reduced levels in prion infections. *EMBO Journal*, **2007**, 26, 4038-50	13	104
53	The expanding universe of prion diseases. *PLoS Pathogens*, **2006**, 2, e26	7.6	100
52	Interactome analyses identify ties of PrP and its mammalian paralogs to oligomannosidic N-glycans and endoplasmic reticulum-derived chaperones. *PLoS Pathogens*, **2009**, 5, e1000608	7.6	98
51	Drug resistance confounding prion therapeutics. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4160-9	11.5	97
50	Evolutionary descent of prion genes from the ZIP family of metal ion transporters. *PLoS ONE*, **2009**, 4, e7208	3.7	94
49	-Synuclein-Based Animal Models of Parkinson's Disease: Challenges and Opportunities in a New Era. *Trends in Neurosciences*, **2016**, 39, 750-762	13.3	92
48	-Synuclein strains target distinct brain regions and cell types. *Nature Neuroscience*, **2020**, 23, 21-31	25.5	91
47	Bioluminescence imaging of Abeta deposition in bigenic mouse models of Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2528-33	11.5	90
46	The prion protein family: diversity, rivalry, and dysfunction. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2007**, 1772, 654-72	6.9	86
45	Evidence that bank vole PrP is a universal acceptor for prions. *PLoS Pathogens*, **2014**, 10, e1003990	7.6	71

44	Structural heterogeneity and intersubject variability of A□n familial and sporadic Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E782-E791	11.5	69
43	Mouse models for studying the formation and propagation of prions. *Journal of Biological Chemistry*, **2014**, 289, 19841-9	5.4	58
42	Spontaneous generation of anchorless prions in transgenic mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 21223-8	11.5	56
41	Genetic mapping of activity determinants within cellular prion proteins: N-terminal modules in PrPC offset pro-apoptotic activity of the Doppel helix B/BV region. *Journal of Biological Chemistry*, **2004**, 279, 55443-54	5.4	50
40	Spontaneous generation of rapidly transmissible prions in transgenic mice expressing wild-type bank vole prion protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 3498-503	11.5	49
39	Conformational transformation and selection of synthetic prion strains. *Journal of Molecular Biology*, **2011**, 413, 527-42	6.5	46
38	□Amyloid Prions and the Pathobiology of Alzheimer's Disease. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	44
37	The function of the cellular prion protein in health and disease. *Acta Neuropathologica*, **2018**, 135, 159-178	14.3	43
36	□Synuclein: Multiple System Atrophy Prions. *Cold Spring Harbor Perspectives in Medicine*, **2018**, 8,	5.4	40
35	Protease-resistant prions selectively decrease Shadoo protein. *PLoS Pathogens*, **2011**, 7, e1002382	7.6	37
34	Prion-like propagation of □amyloid aggregates in the absence of APP overexpression. *Acta Neuropathologica Communications*, **2018**, 6, 26	7.3	32
33	Family reunion--the ZIP/prion gene family. *Progress in Neurobiology*, **2011**, 93, 405-20	10.9	31
32	Towards authentic transgenic mouse models of heritable PrP prion diseases. *Acta Neuropathologica* , **2016**, 132, 593-610	14.3	28
31	Wild-type Shadoo proteins convert to amyloid-like forms under native conditions. *Journal of Neurochemistry*, **2010**, 113, 92-104	6	27
30	Structural studies of truncated forms of the prion protein PrP. *Biophysical Journal*, **2015**, 108, 1548-1554	2.9	23
29	Endoproteolytic processing of the mammalian prion glycoprotein family. *FEBS Journal*, **2014**, 281, 862-76	5.7	21
28	Somatostatin binds to the human amyloid □peptide and favors the formation of distinct oligomers. *ELife*, **2017**, 6,	8.9	21
27	Experimental Models of Inherited PrP Prion Diseases. *Cold Spring Harbor Perspectives in Medicine*, **2017**, 7,	5.4	19

26	The existence of A□strains and their potential for driving phenotypic heterogeneity in Alzheimer's disease. *Acta Neuropathologica*, **2021**, 142, 17-39	14.3	18
25	The prion protein modulates A-type K+ currents mediated by Kv4.2 complexes through dipeptidyl aminopeptidase-like protein 6. *Journal of Biological Chemistry*, **2013**, 288, 37241-55	5.4	17
24	Full restoration of specific infectivity and strain properties from pure mammalian prion protein. *PLoS Pathogens*, **2019**, 15, e1007662	7.6	16
23	Modulation of Creutzfeldt-Jakob disease prion propagation by the A224V mutation. *Annals of Neurology*, **2015**, 78, 540-53	9.4	16
22	The prion protein is embedded in a molecular environment that modulates transforming growth factor □and integrin signaling. *Scientific Reports*, **2018**, 8, 8654	4.9	11
21	Engineering a murine cell line for the stable propagation of hamster prions. *Journal of Biological Chemistry*, **2019**, 294, 4911-4923	5.4	9
20	Cellular models for discovering prion disease therapeutics: Progress and challenges. *Journal of Neurochemistry*, **2020**, 153, 150-172	6	9
19	Calling □synuclein a prion is scientifically justifiable. *Acta Neuropathologica*, **2019**, 138, 505-508	14.3	7
18	Strains of Pathological Protein Aggregates in Neurodegenerative Diseases. *Discoveries*, **2017**, 5, e78	3.7	6
17	Sensitive protein misfolding cyclic amplification of sporadic Creutzfeldt-Jakob disease prions is strongly seed and substrate dependent. *Scientific Reports*, **2021**, 11, 4058	4.9	6
16	Discriminating Strains of Self-Propagating Protein Aggregates Using a Conformational Stability Assay. *Methods in Molecular Biology*, **2018**, 1777, 339-354	1.4	3
15	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion. *PLoS Pathogens*, **2020**, 16, e1008875	7.6	3
14	A□3 aggregates exhibit enhanced prion-like seeding activity in mice. *Acta Neuropathologica Communications*, **2021**, 9, 83	7.3	3
13	Guinea Pig Prion Protein Supports Rapid Propagation of Bovine Spongiform Encephalopathy and Variant Creutzfeldt-Jakob Disease Prions. *Journal of Virology*, **2016**, 90, 9558-9569	6.6	2
12	Alpha-synuclein seeding shows a wide heterogeneity in multiple system atrophy.. *Translational Neurodegeneration*, **2022**, 11, 7	10.3	2
11	The Biology and Pathobiology of □Synuclein **2017**, 109-130		1
10	The utility of bank voles for studying prion disease. *Progress in Molecular Biology and Translational Science*, **2020**, 175, 179-211	4	1
9	The aminoglycoside G418 hinders de novo prion infection in cultured cells. *Journal of Biological Chemistry*, **2021**, 297, 101073	5.4	1

8	The cellular prion protein interacts with and promotes the activity of Na,K-ATPases. *PLoS ONE*, **2021**, 16, e0258682	3.7	0
7	Viral alpha-synuclein knockdown prevents spreading synucleinopathy. *Brain Communications*, **2021**, 3, fcab247	4.5	0
6	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion **2020**, 16, e1008875		
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2	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion **2020**, 16, e1008875		
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