

# Joel C Watts

## 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.

61  
papers

3,408  
citations

29  
h-index

58  
g-index

65  
ext. papers

4,002  
ext. citations

8.1  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
61	Alpha-synuclein seeding shows a wide heterogeneity in multiple system atrophy.. <i>Translational Neurodegeneration</i> , <b>2022</b> , 11, 7	10.3	2
60	The cellular prion protein interacts with and promotes the activity of Na,K-ATPases. <i>PLoS ONE</i> , <b>2021</b> , 16, e0258682	3.7	0
59	Viral alpha-synuclein knockdown prevents spreading synucleinopathy. <i>Brain Communications</i> , <b>2021</b> , 3, fcab247	4.5	0
58	The existence of A $\beta$ strains and their potential for driving phenotypic heterogeneity in Alzheimer's disease. <i>Acta Neuropathologica</i> , <b>2021</b> , 142, 17-39	14.3	18
57	A $\beta$ 3 aggregates exhibit enhanced prion-like seeding activity in mice. <i>Acta Neuropathologica Communications</i> , <b>2021</b> , 9, 83	7.3	3
56	Sensitive protein misfolding cyclic amplification of sporadic Creutzfeldt-Jakob disease prions is strongly seed and substrate dependent. <i>Scientific Reports</i> , <b>2021</b> , 11, 4058	4.9	6
55	The aminoglycoside G418 hinders de novo prion infection in cultured cells. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101073	5.4	1
54	Cellular models for discovering prion disease therapeutics: Progress and challenges. <i>Journal of Neurochemistry</i> , <b>2020</b> , 153, 150-172	6	9
53	$\beta$ Synuclein strains target distinct brain regions and cell types. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 21-31	25.5	91
52	The utility of bank voles for studying prion disease. <i>Progress in Molecular Biology and Translational Science</i> , <b>2020</b> , 175, 179-211	4	1
51	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion. <i>PLoS Pathogens</i> , <b>2020</b> , 16, e1008875	7.6	3
50	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion <b>2020</b> , 16, e1008875		
49	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion <b>2020</b> , 16, e1008875		
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45	Identification of a homology-independent linchpin domain controlling mouse and bank vole prion protein conversion <b>2020</b> , 16, e1008875		

44	Engineering a murine cell line for the stable propagation of hamster prions. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 4911-4923	5.4	9
43	Full restoration of specific infectivity and strain properties from pure mammalian prion protein. <i>PLoS Pathogens</i> , <b>2019</b> , 15, e1007662	7.6	16
42	Calling $\beta$ synuclein a prion is scientifically justifiable. <i>Acta Neuropathologica</i> , <b>2019</b> , 138, 505-508	14.3	7
41	Structural heterogeneity and intersubject variability of A $\beta$ in familial and sporadic Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E782-E791	11.5	69
40	Prion-like propagation of $\beta$ amyloid aggregates in the absence of APP overexpression. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 26	7.3	32
39	$\beta$ Amyloid Prions and the Pathobiology of Alzheimer's Disease. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2018</b> , 8,	5.4	44
38	$\beta$ Synuclein: Multiple System Atrophy Prions. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2018</b> , 8,	5.4	40
37	Discriminating Strains of Self-Propagating Protein Aggregates Using a Conformational Stability Assay. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1777, 339-354	1.4	3
36	The prion protein is embedded in a molecular environment that modulates transforming growth factor $\beta$ and integrin signaling. <i>Scientific Reports</i> , <b>2018</b> , 8, 8654	4.9	11
35	The function of the cellular prion protein in health and disease. <i>Acta Neuropathologica</i> , <b>2018</b> , 135, 159-178	11.3	43
34	Experimental Models of Inherited PrP Prion Diseases. <i>Cold Spring Harbor Perspectives in Medicine</i> , <b>2017</b> , 7,	5.4	19
33	The Biology and Pathobiology of $\beta$ Synuclein <b>2017</b> , 109-130		1
32	Strains of Pathological Protein Aggregates in Neurodegenerative Diseases. <i>Discoveries</i> , <b>2017</b> , 5, e78	3.7	6
31	Somatostatin binds to the human amyloid $\beta$ peptide and favors the formation of distinct oligomers. <i>ELife</i> , <b>2017</b> , 6,	8.9	21
30	Guinea Pig Prion Protein Supports Rapid Propagation of Bovine Spongiform Encephalopathy and Variant Creutzfeldt-Jakob Disease Prions. <i>Journal of Virology</i> , <b>2016</b> , 90, 9558-9569	6.6	2
29	$\beta$ Synuclein-Based Animal Models of Parkinson's Disease: Challenges and Opportunities in a New Era. <i>Trends in Neurosciences</i> , <b>2016</b> , 39, 750-762	13.3	92
28	Towards authentic transgenic mouse models of heritable PrP prion diseases. <i>Acta Neuropathologica</i> , <b>2016</b> , 132, 593-610	14.3	28
27	Structural studies of truncated forms of the prion protein PrP. <i>Biophysical Journal</i> , <b>2015</b> , 108, 1548-1554	2.9	23

26	Modulation of Creutzfeldt-Jakob disease prion propagation by the A224V mutation. <i>Annals of Neurology</i> , <b>2015</b> , 78, 540-53	9.4	16
25	Evidence for Eynuclein prions causing multiple system atrophy in humans with parkinsonism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E5308-17	11.5	450
24	Propagation of prions causing synucleinopathies in cultured cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E4949-58	11.5	152
23	Distinct synthetic A $\beta$ prion strains producing different amyloid deposits in bigenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10329-34	11.5	124
22	Mouse models for studying the formation and propagation of prions. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 19841-9	5.4	58
21	Serial propagation of distinct strains of A $\beta$ prions from Alzheimer's disease patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10323-8	11.5	214
20	Evidence that bank vole PrP is a universal acceptor for prions. <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1003990	7.6	71
19	Endoproteolytic processing of the mammalian prion glycoprotein family. <i>FEBS Journal</i> , <b>2014</b> , 281, 862-76	7.7	21
18	Drug resistance confounding prion therapeutics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, E4160-9	11.5	97
17	Transmission of multiple system atrophy prions to transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 19555-60	11.5	303
16	The prion protein modulates A-type K <sup>+</sup> currents mediated by Kv4.2 complexes through dipeptidyl aminopeptidase-like protein 6. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 37241-55	5.4	17
15	Spontaneous generation of rapidly transmissible prions in transgenic mice expressing wild-type bank vole prion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 3498-503	11.5	49
14	Purified and synthetic Alzheimer's amyloid beta (A $\beta$ )prions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 11025-30	11.5	290
13	Conformational transformation and selection of synthetic prion strains. <i>Journal of Molecular Biology</i> , <b>2011</b> , 413, 527-42	6.5	46
12	Family reunion--the ZIP/prion gene family. <i>Progress in Neurobiology</i> , <b>2011</b> , 93, 405-20	10.9	31
11	Spontaneous generation of anchorless prions in transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 21223-8	11.5	56
10	Bioluminescence imaging of A $\beta$ deposition in bigenic mouse models of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 2528-33	11.5	90
9	Protease-resistant prions selectively decrease Shadoo protein. <i>PLoS Pathogens</i> , <b>2011</b> , 7, e1002382	7.6	37

8	Wild-type Shadoo proteins convert to amyloid-like forms under native conditions. <i>Journal of Neurochemistry</i> , <b>2010</b> , 113, 92-104	6	27
7	Interactome analyses identify ties of PrP and its mammalian paralogs to oligomannosidic N-glycans and endoplasmic reticulum-derived chaperones. <i>PLoS Pathogens</i> , <b>2009</b> , 5, e1000608	7.6	98
6	Evolutionary descent of prion genes from the ZIP family of metal ion transporters. <i>PLoS ONE</i> , <b>2009</b> , 4, e7208	3.7	94
5	The in vivo brain interactome of the amyloid precursor protein. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 15-34	7.6	126
4	The CNS glycoprotein Shadoo has PrP(C)-like protective properties and displays reduced levels in prion infections. <i>EMBO Journal</i> , <b>2007</b> , 26, 4038-50	13	104
3	The prion protein family: diversity, rivalry, and dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2007</b> , 1772, 654-72	6.9	86
2	The expanding universe of prion diseases. <i>PLoS Pathogens</i> , <b>2006</b> , 2, e26	7.6	100
1	Genetic mapping of activity determinants within cellular prion proteins: N-terminal modules in PrPC offset pro-apoptotic activity of the Doppel helix B/BVregion. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 55443-54	5.4	50