

# Christina J Sigurdson

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

9,602  
citations

109137

35  
h-index

106150

65  
g-index

69  
all docs

69  
docs citations

69  
times ranked

16988  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Infectious Prions in the Saliva and Blood of Deer with Chronic Wasting Disease. <i>Science</i> , 2006, 314, 133-136.	6.0	448
3	Cryo-EM structure and polymorphism of A $\beta$ amyloid fibrils purified from Alzheimer's brain tissue. <i>Nature Communications</i> , 2019, 10, 4760.	5.8	411
4	Novel Pentameric Thiophene Derivatives for <i>in Vitro</i> and <i>in Vivo</i> Optical Imaging of a Plethora of Protein Aggregates in Cerebral Amyloidoses. <i>ACS Chemical Biology</i> , 2009, 4, 673-684.	1.6	290
5	Oral transmission and early lymphoid tropism of chronic wasting disease PrPres in mule deer fawns ( <i>Odocoileus hemionus</i> ). <i>Journal of General Virology</i> , 1999, 80, 2757-2764.	1.3	289
6	Prion strain discrimination using luminescent conjugated polymers. <i>Nature Methods</i> , 2007, 4, 1023-1030.	9.0	261
7	Prions in Skeletal Muscles of Deer with Chronic Wasting Disease. <i>Science</i> , 2006, 311, 1117-1117.	6.0	192
8	De novo generation of a transmissible spongiform encephalopathy by mouse transgenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 304-309.	3.3	185
9	The POM Monoclonals: A Comprehensive Set of Antibodies to Non-Overlapping Prion Protein Epitopes. <i>PLoS ONE</i> , 2008, 3, e3872.	1.1	162
10	Multiple Mechanisms of Unfolded Protein Response-Induced Cell Death. <i>American Journal of Pathology</i> , 2015, 185, 1800-1808.	1.9	152
11	PrPSc in mammary glands of sheep affected by scrapie and mastitis. <i>Nature Medicine</i> , 2005, 11, 1137-1138.	15.2	142
12	PrPCWD in the myenteric plexus, vagosympathetic trunk and endocrine glands of deer with chronic wasting disease. <i>Journal of General Virology</i> , 2001, 82, 2327-2334.	1.3	126
13	A molecular switch controls interspecies prion disease transmission in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2590-2599.	3.9	124
14	A prion disease of cervids: Chronic wasting disease. <i>Veterinary Research</i> , 2008, 39, 41.	1.1	119
15	Polymorphism of Amyloid Fibrils <i>In Vivo</i> . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4822-4825.	7.2	109
16	Chronic wasting disease prions are not transmissible to transgenic mice overexpressing human prion protein. <i>Journal of General Virology</i> , 2010, 91, 2651-2657.	1.3	106
17	Other animal prion diseases. <i>British Medical Bulletin</i> , 2003, 66, 199-212.	2.7	95
18	The Structural Basis for Optimal Performance of Oligothiophene-Based Fluorescent Amyloid Ligands: Conformational Flexibility is Essential for Spectral Assignment of a Diversity of Protein Aggregates. <i>Chemistry - A European Journal</i> , 2013, 19, 10179-10192.	1.7	95

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19	Seeding selectivity and ultrasensitive detection of tau aggregate conformers of Alzheimer disease. <i>Acta Neuropathologica</i> , 2019, 137, 585-598.	3.9	95
20	Cellular and Molecular Mechanisms of Prion Disease. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2019, 14, 497-516.	9.6	83
21	Experimental Oral Transmission of Chronic Wasting Disease to Reindeer ( <i>Rangifer tarandus tarandus</i> ). <i>PLoS ONE</i> , 2012, 7, e39055.	1.1	82
22	Strain Fidelity of Chronic Wasting Disease upon Murine Adaptation. <i>Journal of Virology</i> , 2006, 80, 12303-12311.	1.5	74
23	A Palette of Fluorescent Thiophene-Based Ligands for the Identification of Protein Aggregates. <i>Chemistry - A European Journal</i> , 2015, 21, 15133-15137.	1.7	74
24	Preclinical diagnosis of chronic wasting disease in captive mule deer ( <i>Odocoileus hemionus</i> ) and white-tailed deer ( <i>Odocoileus virginianus</i> ) using tonsillar biopsy. <i>Journal of General Virology</i> , 2002, 83, 2629-2634.	1.3	69
25	Human prion protein sequence elements impede cross-species chronic wasting disease transmission. <i>Journal of Clinical Investigation</i> , 2015, 125, 1485-1496.	3.9	68
26	Prion Transmission Prevented by Modifying the $\beta$ 2-Loop Structure of Host PrP <sup>C</sup> . <i>Journal of Neuroscience</i> , 2014, 34, 1022-1027.	1.7	67
27	PrPCWD lymphoid cell targets in early and advanced chronic wasting disease of mule deer. <i>Journal of General Virology</i> , 2002, 83, 2617-2628.	1.3	67
28	Multimodal fluorescence microscopy of prion strain specific PrP deposits stained by thiophene-based amyloid ligands. <i>Prion</i> , 2014, 8, 319-329.	0.9	63
29	Biochemical Properties of Highly Neuroinvasive Prion Strains. <i>PLoS Pathogens</i> , 2012, 8, e1002522.	2.1	59
30	Spongiform Encephalopathy in Transgenic Mice Expressing a Point Mutation in the $\beta$ 2-Loop of the Prion Protein. <i>Journal of Neuroscience</i> , 2011, 31, 13840-13847.	1.7	56
31	Sheep with Scrapie and Mastitis Transmit Infectious Prions through the Milk. <i>Journal of Virology</i> , 2011, 85, 1136-1139.	1.5	54
32	Prion Seeds Distribute throughout the Eyes of Sporadic Creutzfeldt-Jakob Disease Patients. <i>MBio</i> , 2018, 9, .	1.8	48
33	Evidence for distinct chronic wasting disease (CWD) strains in experimental CWD in ferrets. <i>Journal of General Virology</i> , 2012, 93, 212-221.	1.3	45
34	Structure of the $\beta$ 2-loop and interspecies prion transmission. <i>FASEB Journal</i> , 2012, 26, 2868-2876.	0.2	41
35	Prion Strain Interactions Are Highly Selective. <i>Journal of Neuroscience</i> , 2010, 30, 12094-12102.	1.7	40
36	Cross-species transmission of CWD prions. <i>Prion</i> , 2016, 10, 83-91.	0.9	38

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37	A Proposed Mechanism for the Promotion of Prion Conversion Involving a Strictly Conserved Tyrosine Residue in the $\beta$ 2- $\beta$ 2 Loop of PrPC. <i>Journal of Biological Chemistry</i> , 2014, 289, 10660-10667.	1.6	37
38	Bacterial Colitis Increases Susceptibility to Oral Prion Disease. <i>Journal of Infectious Diseases</i> , 2009, 199, 243-252.	1.9	35
39	Prion protein glycans reduce intracerebral fibril formation and spongiosis in prion disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 1350-1362.	3.9	32
40	Post-translational modifications in PrP expand the conformational diversity of prions in vivo. <i>Scientific Reports</i> , 2017, 7, 43295.	1.6	30
41	Enhanced neuroinvasion by smaller, soluble prions. <i>Acta Neuropathologica Communications</i> , 2017, 5, 32.	2.4	29
42	Distinct conformers of amyloid beta accumulate in the neocortex of patients with rapidly progressive Alzheimer's disease. <i>Journal of Biological Chemistry</i> , 2021, 297, 101267.	1.6	25
43	Risk of Transmissibility From Neurodegenerative Disease-Associated Proteins: Experimental Knowns and Unknowns. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 1141-1146.	0.9	24
44	Asparagine and glutamine ladders promote cross-species prion conversion. <i>Journal of Biological Chemistry</i> , 2017, 292, 19076-19086.	1.6	23
45	Shortening heparan sulfate chains prolongs survival and reduces parenchymal plaques in prion disease caused by mobile, ADAM10-cleaved prions. <i>Acta Neuropathologica</i> , 2020, 139, 527-546.	3.9	23
46	Defining the Conformational Features of Anchorless, Poorly Neuroinvasive Prions. <i>PLoS Pathogens</i> , 2013, 9, e1003280.	2.1	22
47	Scaling analysis reveals the mechanism and rates of prion replication in vivo. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 365-372.	3.6	22
48	Solvation-Guided Design of Fluorescent Probes for Discrimination of Amyloids. <i>Scientific Reports</i> , 2018, 8, 6950.	1.6	21
49	A soluble derivative of PrPC activates cell-signaling and regulates cell physiology through LRP1 and the NMDA receptor. <i>Journal of Biological Chemistry</i> , 2020, 295, 14178-14188.	1.6	17
50	Proteomic Analysis of Highly Prevalent Amyloid A Amyloidosis Endemic to Endangered Island Foxes. <i>PLoS ONE</i> , 2014, 9, e113765.	1.1	16
51	Generation of novel neuroinvasive prions following intravenous challenge. <i>Brain Pathology</i> , 2018, 28, 999-1011.	2.1	15
52	Neuropathological assessment and validation of mouse models for Alzheimer's disease: applying NIA-AA guidelines. <i>Pathobiology of Aging &amp; Age Related Diseases</i> , 2016, 6, 32397.	1.1	13
53	Protein profiling of isolated uterine AA amyloidosis causing fetal death in goats. <i>FASEB Journal</i> , 2015, 29, 911-919.	0.2	12
54	Mucosal transmission and pathogenesis of chronic wasting disease in ferrets. <i>Journal of General Virology</i> , 2013, 94, 432-442.	1.3	11

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55	Systemic Amyloid A Amyloidosis in Island Foxes ( <i>Urocyon littoralis</i> ). <i>Veterinary Pathology</i> , 2016, 53, 637-647.	0.8	11
56	ARCAM-1 Facilitates Fluorescence Detection of Amyloid-Containing Deposits in the Retina. <i>Translational Vision Science and Technology</i> , 2021, 10, 5.	1.1	11
57	A Soluble PrPC Derivative and Membrane-Anchored PrPC in Extracellular Vesicles Attenuate Innate Immunity by Engaging the NMDA-R/LRP1 Receptor Complex. <i>Journal of Immunology</i> , 2022, 208, 85-96.	0.4	10
58	Short and sweet: How glycans impact prion conversion, cofactor interactions, and cross-species transmission. <i>PLoS Pathogens</i> , 2021, 17, e1009123.	2.1	9
59	Polymorphism von Amyloidfibrillen inâ€...vivo. <i>Angewandte Chemie</i> , 2016, 128, 4903-4906.	1.6	7
60	Prion protein post-translational modifications modulate heparan sulfate binding and limit aggregate size in prion disease. <i>Neurobiology of Disease</i> , 2020, 142, 104955.	2.1	5
61	Tracking protein aggregate interactions. <i>Prion</i> , 2011, 5, 52-55.	0.9	4
62	Reconstructing Prions: Fibril Assembly from Simple Yeast to Complex Mammals. <i>Neurodegenerative Diseases</i> , 2005, 2, 1-5.	0.8	3
63	Cellular prion protein in human plasmaâ€derived extracellular vesicles promotes neurite outgrowth via the NMDA receptorâ€LRP1 receptor system. <i>Journal of Biological Chemistry</i> , 2022, 298, 101642.	1.6	3
64	Noninvasive Antemortem Detection of Retinal Prions by a Fluorescent Tracer. <i>Journal of Alzheimer's Disease</i> , 2022, 88, 1137-1145.	1.2	1
65	Minimal change prion retinopathy: Morphometric comparison of retinal and brain prion deposits in Creutzfeldt-Jakob disease. <i>Experimental Eye Research</i> , 2022, 222, 109172.	1.2	1
66	S4-01-04: The spread of prions. , 2013, 9, P673-P673.		0
67	Electron microscopic and confocal laser microscopy analysis of amyloid plaques in chronic wasting disease transmitted to transgenic mice. <i>Prion</i> , 2017, 11, 431-439.	0.9	0
68	Recent advances on the molecular pathogenesis of prion diseases. <i>Brain Pathology</i> , 2019, 29, 245-247.	2.1	0