# Christina J Sigurdson

List of Publications by Year
in descending order



| 68 | 9,602 | 109321 35 | 106344 65 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 69 | 69 | 69 | 16988 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222. | 9.1 | 4,701 |
| 2 | Infectious Prions in the Saliva and Blood of Deer with Chronic Wasting Disease. Science, 2006, 314, 133-136. | 12.6 | 448 |
| 3 | Cryo-EM structure and polymorphism of AÎ² amyloid fibrils purified from Alzheimerâ€™s brain tissue. Nature Communications, 2019, 10, 4760. | 12.8 | 411 |
| 4 | Novel Pentameric Thiophene Derivatives for in Vitro and in Vivo Optical Imaging of a Plethora of Protein Aggregates in Cerebral Amyloidoses. ACS Chemical Biology, 2009, 4, 673-684. | 3.4 | 290 |
| 5 | Oral transmission and early lymphoid tropism of chronic wasting disease PrPres in mule deer fawns (Odocoileus hemionus ). Journal of General Virology, 1999, 80, 2757-2764. | 2.9 | 289 |
| 6 | Prion strain discrimination using luminescent conjugated polymers. Nature Methods, 2007, 4, 1023-1030. | 19.0 | 261 |
| 7 | Prions in Skeletal Muscles of Deer with Chronic Wasting Disease. Science, 2006, 311, 1117-1117. | 12.6 | 192 |
| 8 | De novo generation of a transmissible spongiform encephalopathy by mouse transgenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 304-309. | 7.1 | 185 |
| 9 | The POM Monoclonals: A Comprehensive Set of Antibodies to Non-Overlapping Prion Protein Epitopes. PLoS ONE, 2008, 3, e3872. | 2.5 | 162 |
| 10 | Multiple Mechanisms of Unfolded Protein Responseâ€“Induced Cell Death. American Journal of Pathology, 2015, 185, 1800-1808. | 3.8 | 152 |
| 11 | PrPSc in mammary glands of sheep affected by scrapie and mastitis. Nature Medicine, 2005, 11, 1137-1138. | 30.7 | 142 |
| 12 | PrPCWD in the myenteric plexus, vagosympathetic trunk and endocrine glands of deer with chronic wasting disease. Journal of General Virology, 2001, 82, 2327-2334. | 2.9 | 126 |
| 13 | A molecular switch controls interspecies prion disease transmission in mice. Journal of Clinical Investigation, 2010, 120, 2590-2599. | 8.2 | 124 |
| 14 | A prion disease of cervids: Chronic wasting disease. Veterinary Research, 2008, 39, 41. | 3.0 | 119 |
| 15 | Polymorphism of Amyloid Fibrils In Vivo. Angewandte Chemie - International Edition, 2016, 55, 4822-4825. | 13.8 | 109 |
| 16 | Chronic wasting disease prions are not transmissible to transgenic mice overexpressing human prion protein. Journal of General Virology, 2010, 91, 2651-2657. | 2.9 | 106 |
| 17 | Other animal prion diseases. British Medical Bulletin, 2003, 66, 199-212. | 6.9 | 95 |
| 18 | The Structural Basis for Optimal Performance of Oligothiopheneâ€Based Fluorescent Amyloid Ligands: Conformational Flexibility is Essential for Spectral Assignment of a Diversity of Protein Aggregates. Chemistry - A European Journal, 2013, 19, 10179-10192. | 3.3 | 95 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Seeding selectivity and ultrasensitive detection of tau aggregate conformers of Alzheimer disease. Acta Neuropathologica, 2019, 137, 585-598. | 7.7 | 95 |
| 20 | Cellular and Molecular Mechanisms of Prion Disease. Annual Review of Pathology: Mechanisms of Disease, 2019, 14, 497-516. | 22.4 | 83 |
| 21 | Experimental Oral Transmission of Chronic Wasting Disease to Reindeer (Rangifer tarandus tarandus). PLoS ONE, 2012, 7, e39055. | 2.5 | 82 |
| 22 | Strain Fidelity of Chronic Wasting Disease upon Murine Adaptation. Journal of Virology, 2006, 80, 12303-12311. | 3.4 | 74 |
| 23 | A Palette of Fluorescent Thiopheneâ€Based Ligands for the Identification of Protein Aggregates. Chemistry - A European Journal, 2015, 21, 15133-15137. | 3.3 | 74 |
| 24 | Preclinical diagnosis of chronic wasting disease in captive mule deer (Odocoileus hemionus) and white-tailed deer (Odocoileus virginianus) using tonsillar biopsy. Journal of General Virology, 2002, 83, 2629-2634. | 2.9 | 69 |
| 25 | Human prion protein sequence elements impede cross-species chronic wasting disease transmission. Journal of Clinical Investigation, 2015, 125, 1485-1496. | 8.2 | 68 |
| 26 | Prion Transmission Prevented by Modifying the Î²2-Î±2 Loop Structure of Host PrP<sup>C</sup>. Journal of Neuroscience, 2014, 34, 1022-1027. | 3.6 | 67 |
| 27 | PrPCWD lymphoid cell targets in early and advanced chronic wasting disease of mule deer. Journal of General Virology, 2002, 83, 2617-2628. | 2.9 | 67 |
| 28 | Multimodal fluorescence microscopy of prion strain specific PrP deposits stained by thiophene-based amyloid ligands. Prion, 2014, 8, 319-329. | 1.8 | 63 |
| 29 | Biochemical Properties of Highly Neuroinvasive Prion Strains. PLoS Pathogens, 2012, 8, e1002522. | 4.7 | 59 |
| 30 | Spongiform Encephalopathy in Transgenic Mice Expressing a Point Mutation in the Î²2â€“Î±2 Loop of the Prion Protein. Journal of Neuroscience, 2011, 31, 13840-13847. | 3.6 | 56 |
| 31 | Sheep with Scrapie and Mastitis Transmit Infectious Prions through the Milk. Journal of Virology, 2011, 85, 1136-1139. | 3.4 | 54 |
| 32 | Prion Seeds Distribute throughout the Eyes of Sporadic Creutzfeldt-Jakob Disease Patients. MBio, 2018, 9, . | 4.1 | 48 |
| 33 | Evidence for distinct chronic wasting disease (CWD) strains in experimental CWD in ferrets. Journal of General Virology, 2012, 93, 212-221. | 2.9 | 45 |
| 34 | Structure of the Î²2â€Î±2 loop and interspecies prion transmission. FASEB Journal, 2012, 26, 2868-2876. | 0.5 | 41 |
| 35 | Prion Strain Interactions Are Highly Selective. Journal of Neuroscience, 2010, 30, 12094-12102. | 3.6 | 40 |
| 36 | Cross-species transmission of CWD prions. Prion, 2016, 10, 83-91. | 1.8 | 38 |

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|---|---|---|---|
| 37 | A Proposed Mechanism for the Promotion of Prion Conversion Involving a Strictly Conserved Tyrosine Residue in the Î²2-Î±2 Loop of PrPC. Journal of Biological Chemistry, 2014, 289, 10660-10667. | 3.4 | 37 |
| 38 | Bacterial Colitis Increases Susceptibility to Oral Prion Disease. Journal of Infectious Diseases, 2009, 199, 243-252. | 4.0 | 35 |
| 39 | Prion protein glycans reduce intracerebral fibril formation and spongiosis in prion disease. Journal of Clinical Investigation, 2020, 130, 1350-1362. | 8.2 | 32 |
| 40 | Post-translational modifications in PrP expand the conformational diversity of prions in vivo. Scientific Reports, 2017, 7, 43295. | 3.3 | 30 |
| 41 | Enhanced neuroinvasion by smaller, soluble prions. Acta Neuropathologica Communications, 2017, 5, 32. | 5.2 | 29 |
| 42 | Distinct conformers of amyloid beta accumulate in the neocortex of patients with rapidly progressive Alzheimer's disease. Journal of Biological Chemistry, 2021, 297, 101267. | 3.4 | 25 |
| 43 | Risk of Transmissibility From Neurodegenerative Disease-Associated Proteins: Experimental Knowns and Unknowns. Journal of Neuropathology and Experimental Neurology, 2020, 79, 1141-1146. | 1.7 | 24 |
| 44 | Asparagine and glutamine ladders promote cross-species prion conversion. Journal of Biological Chemistry, 2017, 292, 19076-19086. | 3.4 | 23 |
| 45 | Shortening heparan sulfate chains prolongs survival and reduces parenchymal plaques in prion disease caused by mobile, ADAM10-cleaved prions. Acta Neuropathologica, 2020, 139, 527-546. | 7.7 | 23 |
| 46 | Defining the Conformational Features of Anchorless, Poorly Neuroinvasive Prions. PLoS Pathogens, 2013, 9, e1003280. | 4.7 | 22 |
| 47 | Scaling analysis reveals the mechanism and rates of prion replication in vivo. Nature Structural and Molecular Biology, 2021, 28, 365-372. | 8.2 | 22 |
| 48 | Solvation-Guided Design of Fluorescent Probes for Discrimination of Amyloids. Scientific Reports, 2018, 8, 6950. | 3.3 | 21 |
| 49 | A soluble derivative of PrPC activates cell-signaling and regulates cell physiology through LRP1 and the NMDA receptor. Journal of Biological Chemistry, 2020, 295, 14178-14188. | 3.4 | 17 |
| 50 | Proteomic Analysis of Highly Prevalent Amyloid A Amyloidosis Endemic to Endangered Island Foxes. PLoS ONE, 2014, 9, e113765. | 2.5 | 16 |
| 51 | Generation of novel neuroinvasive prions following intravenous challenge. Brain Pathology, 2018, 28, 999-1011. | 4.1 | 15 |
| 52 | Neuropathological assessment and validation of mouse models for Alzheimer's disease: applying NIA-AA guidelines. Pathobiology of Aging & Age Related Diseases, 2016, 6, 32397. | 1.1 | 13 |
| 53 | Protein profiling of isolated uterine AA amyloidosis causing fetal death in goats. FASEB Journal, 2015, 29, 911-919. | 0.5 | 12 |
| 54 | Mucosal transmission and pathogenesis of chronic wasting disease in ferrets. Journal of General Virology, 2013, 94, 432-442. | 2.9 | 11 |

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|---|---|---|---|
| 55 | Systemic Amyloid A Amyloidosis in Island Foxes (Urocyon littoralis). Veterinary Pathology, 2016, 53, 637-647. | 1.7 | 11 |
| 56 | ARCAM-1 Facilitates Fluorescence Detection of Amyloid-Containing Deposits in the Retina. Translational Vision Science and Technology, 2021, 10, 5. | 2.2 | 11 |
| 57 | A Soluble PrPC Derivative and Membrane-Anchored PrPC in Extracellular Vesicles Attenuate Innate Immunity by Engaging the NMDA-R/LRP1 Receptor Complex. Journal of Immunology, 2022, 208, 85-96. | 0.8 | 10 |
| 58 | Short and sweet: How glycans impact prion conversion, cofactor interactions, and cross-species transmission. PLoS Pathogens, 2021, 17, e1009123. | 4.7 | 9 |
| 59 | Polymorphismus von Amyloidfibrillen inâ€…vivo. Angewandte Chemie, 2016, 128, 4903-4906. | 2.0 | 7 |
| 60 | Prion protein post-translational modifications modulate heparan sulfate binding and limit aggregate size in prion disease. Neurobiology of Disease, 2020, 142, 104955. | 4.4 | 5 |
| 61 | Tracking protein aggregate interactions. Prion, 2011, 5, 52-55. | 1.8 | 4 |
| 62 | Reconstructing Prions: Fibril Assembly from Simple Yeast to Complex Mammals. Neurodegenerative Diseases, 2005, 2, 1-5. | 1.4 | 3 |
| 63 | Cellular prion protein in human plasmaâ€“derived extracellular vesicles promotes neurite outgrowth via the NMDA receptorâ€“LRP1 receptor system. Journal of Biological Chemistry, 2022, 298, 101642. | 3.4 | 3 |
| 64 | Noninvasive Antemortem Detection of Retinal Prions by a Fluorescent Tracer. Journal of Alzheimer's Disease, 2022, 88, 1137-1145. | 2.6 | 1 |
| 65 | Minimal change prion retinopathy: Morphometric comparison of retinal and brain prion deposits in Creutzfeldt-Jakob disease. Experimental Eye Research, 2022, 222, 109172. | 2.6 | 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. Prion, 2017, 11, 431-439. | 1.8 | 0 |
| 68 | Recent advances on the molecular pathogenesis of prion diseases. Brain Pathology, 2019, 29, 245-247. | 4.1 | 0 |