Witold K Surewicz

List of Publications by Year in descending order

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28274 39675 9,513 121 55 94 citations h-index g-index papers 125 125 125 6499 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|--|-------------|-----------|
| 1 | Tau liquid–liquid phase separation in neurodegenerative diseases. Trends in Cell Biology, 2022, 32, 611-623. | 7.9 | 46 |
| 2 | Influence of the Dynamically Disordered N-Terminal Tail Domain on the Amyloid Core Structure of Human Y145Stop Prion Protein Fibrils. Frontiers in Molecular Biosciences, 2022, 9, 841790. | 3.5 | 1 |
| 3 | 13C and 15N chemical shift assignments of A117V and M129V human Y145Stop prion protein amyloid fibrils. Biomolecular NMR Assignments, 2021, 15, 45-51. | 0.8 | 1 |
| 4 | Cryo-EM structure of amyloid fibrils formed by the entire low complexity domain of TDP-43. Nature Communications, 2021, 12, 1620. | 12.8 | 85 |
| 5 | Regulatory mechanisms of tau protein fibrillation under the conditions of liquid–liquid phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31882-31890. | 7.1 | 70 |
| 6 | Small molecules as potent biphasic modulators of protein liquid-liquid phase separation. Nature Communications, 2020, 11, 5574. | 12.8 | 96 |
| 7 | A novel mechanism of phenotypic heterogeneity in Creutzfeldt-Jakob disease. Acta Neuropathologica Communications, 2020, 8, 85. | 5. 2 | 12 |
| 8 | Liquid–Liquid Phase Separation and Its Mechanistic Role in Pathological Protein Aggregation. Journal of Molecular Biology, 2020, 432, 1910-1925. | 4.2 | 163 |
| 9 | Zinc promotes liquid–liquid phase separation of tau protein. Journal of Biological Chemistry, 2020, 295, 5850-5856. | 3.4 | 80 |
| 10 | Studying Protein Aggregation in the Context of Liquid-liquid Phase Separation Using Fluorescence and Atomic Force Microscopy, Fluorescence and Turbidity Assays, and FRAP. Bio-protocol, 2020, 10, . | 0.4 | 11 |
| 11 | The prion 2018 round tables (I): the structure of PrP ^{Sc} . Prion, 2019, 13, 46-52. | 1.8 | 34 |
| 12 | Gerstmann-Str \tilde{A} g ssler-Scheinker disease revisited: accumulation of covalently-linked multimers of internal prion protein fragments. Acta Neuropathologica Communications, 2019, 7, 85. | 5.2 | 22 |
| 13 | Liquid–liquid phase separation of tau protein: The crucial role of electrostatic interactions. Journal of Biological Chemistry, 2019, 294, 11054-11059. | 3.4 | 155 |
| 14 | The role of liquid–liquid phase separation in aggregation of the TDP-43 low-complexity domain. Journal of Biological Chemistry, 2019, 294, 6306-6317. | 3.4 | 238 |
| 15 | A Metastable Contact and Structural Disorder in the Estrogen Receptor Transactivation Domain. Structure, 2019, 27, 229-240.e4. | 3.3 | 39 |
| 16 | Early preclinical detection of prions in the skin of prion-infected animals. Nature Communications, 2019, 10, 247. | 12.8 | 46 |
| 17 | Conformational Dynamics in the Core of Human Y145Stop Prion Protein Amyloid Probed by Relaxation Dispersion NMR. ChemPhysChem, 2019, 20, 311-317. | 2.1 | 21 |
| 18 | Protein-solvent interfaces in human Y145Stop prion protein amyloid fibrils probed by paramagnetic solid-state NMR spectroscopy. Journal of Structural Biology, 2019, 206, 36-42. | 2.8 | 20 |

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| 19 | Identification of prion protein-derived peptides of potential use in Alzheimer's disease therapy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 2143-2153. | 3.8 | 14 |
| 20 | Structural Studies of Amyloid Fibrils by Paramagnetic Solid-State Nuclear Magnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2018, 140, 13161-13166. | 13.7 | 32 |
| 21 | Structural attributes of mammalian prion infectivity: Insights from studies with synthetic prions. Journal of Biological Chemistry, 2018, 293, 18494-18503. | 3.4 | 26 |
| 22 | Pharmacological Modulation of Three Modalities of CA1 Hippocampal Long-Term Potentiation in the Ts65Dn Mouse Model of Down Syndrome. Neural Plasticity, 2018, 2018, 1-14. | 2.2 | 12 |
| 23 | Artificial strain of human prions created in vitro. Nature Communications, 2018, 9, 2166. | 12.8 | 33 |
| 24 | Post-translational modifications in PrP expand the conformational diversity of prions in vivo. Scientific Reports, 2017, 7, 43295. | 3.3 | 30 |
| 25 | 13C and 15N chemical shift assignments of mammalian Y145Stop prion protein amyloid fibrils. Biomolecular NMR Assignments, 2017, 11, 75-80. | 0.8 | 21 |
| 26 | Species-dependent structural polymorphism of Y145Stop prion protein amyloid revealed by solid-state NMR spectroscopy. Nature Communications, 2017, 8, 753. | 12.8 | 59 |
| 27 | Enhanced neuroinvasion by smaller, soluble prions. Acta Neuropathologica Communications, 2017, 5, 32. | 5. 2 | 29 |
| 28 | Soluble polymorphic bank vole prion proteins induced by co-expression of quiescin sulfhydryl oxidase in E. coli and their aggregation behaviors. Microbial Cell Factories, 2017, 16, 170. | 4.0 | 4 |
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| 30 | Amyloid fibrils from the N-terminal prion protein fragment are infectious. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13851-13856. | 7.1 | 68 |
| 31 | Soluble prion protein and its N-terminal fragment prevent impairment of synaptic plasticity by ${\rm A\hat{l}^2}$ oligomers: Implications for novel therapeutic strategy in Alzheimer's disease. Neurobiology of Disease, 2016, 91, 124-131. | 4.4 | 40 |
| 32 | Rapidly progressive Alzheimer's disease features distinct structures of amyloid-β. Brain, 2015, 138, 1009-1022. | 7.6 | 166 |
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| 34 | From Neurodegeneration to Brain Health: AnÂlntegrated Approach. Journal of Alzheimer's Disease, 2015, 46, 271-283. | 2.6 | 6 |
| 35 | Soluble Prion Protein Binds Isolated Low Molecular Weight Amyloid- \hat{l}^2 Oligomers Causing Cytotoxicity Inhibition. ACS Chemical Neuroscience, 2015, 6, 1972-1980. | 3.5 | 19 |
| 36 | Conformational Stability of Mammalian Prion Protein Amyloid Fibrils Is Dictated by a Packing Polymorphism within the Core Region. Journal of Biological Chemistry, 2014, 289, 2643-2650. | 3.4 | 46 |

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| 37 | Interaction between Prion Protein and A \hat{l}^2 Amyloid Fibrils Revisited. ACS Chemical Neuroscience, 2014, 5, 340-345. | 3.5 | 28 |
| 38 | Crystal Structure of a Human Prion Protein Fragment Reveals a Motif for Oligomer Formation. Journal of the American Chemical Society, 2013, 135, 10202-10205. | 13.7 | 55 |
| 39 | The effect of β2â€Î±2 loop mutation on amyloidogenic properties of the prion protein. FEBS Letters, 2013, 587, 2918-2923. | 2.8 | 14 |
| 40 | Recombinant Human Prion Protein Inhibits Prion Propagation in vitro. Scientific Reports, 2013, 3, 2911. | 3.3 | 27 |
| 41 | Small Protease Sensitive Oligomers of PrPSc in Distinct Human Prions Determine Conversion Rate of PrPC. PLoS Pathogens, 2012, 8, e1002835. | 4.7 | 72 |
| 42 | Cellular Prion Protein Regulates Its Own \hat{l}_{\pm} -Cleavage through ADAM8 in Skeletal Muscle. Journal of Biological Chemistry, 2012, 287, 16510-16520. | 3.4 | 42 |
| 43 | Soluble Prion Protein Inhibits Amyloid- \hat{l}^2 (A \hat{l}^2) Fibrillization and Toxicity. Journal of Biological Chemistry, 2012, 287, 33104-33108. | 3.4 | 79 |
| 44 | Intermolecular Alignment in Y145Stop Human Prion Protein Amyloid Fibrils Probed by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2011, 133, 13934-13937. | 13.7 | 57 |
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| 46 | Structural organization of brain-derived mammalian prions examined by hydrogen-deuterium exchange. Nature Structural and Molecular Biology, 2011, 18, 504-506. | 8.2 | 206 |
| 47 | Molecular biology and pathology of prion strains in sporadic human prion diseases. Acta Neuropathologica, 2011, 121, 79-90. | 7.7 | 96 |
| 48 | Structural Polymorphism in Amyloids. Journal of Biological Chemistry, 2011, 286, 42777-42784. | 3.4 | 38 |
| 49 | Conformational diversity in prion protein variants influences intermolecular \hat{l}^2 -sheet formation. EMBO Journal, 2010, 29, 251-262. | 7.8 | 105 |
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| 51 | Mammalian Prions Generated from Bacterially Expressed Prion Protein in the Absence of Any Mammalian Cofactors. Journal of Biological Chemistry, 2010, 285, 14083-14087. | 3.4 | 195 |
| 52 | Reply to Kascsak: Definition of the PrP 3F4 Epitope Revisited. Journal of Biological Chemistry, 2010, 285, le6. | 3.4 | 0 |
| 53 | Interaction between Human Prion Protein and Amyloid- \hat{l}^2 (A \hat{l}^2) Oligomers. Journal of Biological Chemistry, 2010, 285, 26377-26383. | 3.4 | 244 |
| 54 | Conformational Flexibility of Y145Stop Human Prion Protein Amyloid Fibrils Probed by Solid-State Nuclear Magnetic Resonance Spectroscopy. Journal of the American Chemical Society, 2010, 132, 2393-2403. | 13.7 | 126 |

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| 57 | Prion Diseases and Their Biochemical Mechanisms. Biochemistry, 2009, 48, 2574-2585. | 2.5 | 181 |
| 58 | Antimicrobial Activity of Human Prion Protein Is Mediated by Its N-Terminal Region. PLoS ONE, 2009, 4, e7358. | 2.5 | 73 |
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| 62 | Molecular architecture of human prion protein amyloid: A parallel, in-register \hat{l}^2 -structure. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18946-18951. | 7.1 | 302 |
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| 75 | Nucleation-dependent conformational conversion of the Y145Stop variant of human prion protein: Structural clues for prion propagation. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12069-12074. | 7.1 | 92 |
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| 84 | The Prion Protein Has RNA Binding and Chaperoning Properties Characteristic of Nucleocapsid Protein NCp7 of HIV-1. Journal of Biological Chemistry, 2001, 276, 19301-19309. | 3.4 | 163 |
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| 113 | Conformational properties of azurin in solution as determined from resolution-enhanced Fourier-transform infrared spectra. FEBS Journal, 1987, 167, 519-523. | 0.2 | 68 |
| 114 | Effect of Lipid Structure on the Capacity of Myelin Basic Protein to Alter Vesicle Properties: Potent Effects of Aliphatic Aldehydes in Promoting Basic Protein-Induced Vesicle Aggregation. Journal of Neurochemistry, 1984, 43, 1550-1555. | 3.9 | 17 |
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