

# Susanne Wegmann

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

4,155  
citations

218677

26  
h-index

315739

38  
g-index

45  
all docs

45  
docs citations

45  
times ranked

5090  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tau protein liquid-liquid phase separation can initiate tau aggregation. <i>EMBO Journal</i> , 2018, 37, .	7.8	696
2	LRP1 is a master regulator of tau uptake and spread. <i>Nature</i> , 2020, 580, 381-385.	27.8	326
3	Tau Protein Disrupts Nucleocytoplasmic Transport in Alzheimer's Disease. <i>Neuron</i> , 2018, 99, 925-940.e7.	8.1	302
4	Neuronal uptake and propagation of a rare phosphorylated high-molecular-weight tau derived from Alzheimer's disease brain. <i>Nature Communications</i> , 2015, 6, 8490.	12.8	283
5	Local Nucleation of Microtubule Bundles through Tubulin Concentration into a Condensed Tau Phase. <i>Cell Reports</i> , 2017, 20, 2304-2312.	6.4	278
6	Tau impairs neural circuits, dominating amyloid- $\beta^2$ effects, in Alzheimer models in vivo. <i>Nature Neuroscience</i> , 2019, 22, 57-64.	14.8	278
7	A current view on Tau protein phosphorylation in Alzheimer's disease. <i>Current Opinion in Neurobiology</i> , 2021, 69, 131-138.	4.2	167
8	Atypical, non-standard functions of the microtubule associated Tau protein. <i>Acta Neuropathologica Communications</i> , 2017, 5, 91.	5.2	157
9	The fuzzy coat of pathological human Tau fibrils is a two-layered polyelectrolyte brush. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E313-21.	7.1	148
10	Oligomer Formation of Tau Protein Hyperphosphorylated in Cells. <i>Journal of Biological Chemistry</i> , 2014, 289, 34389-34407.	3.4	132
11	Removing endogenous tau does not prevent tau propagation yet reduces its neurotoxicity. <i>EMBO Journal</i> , 2015, 34, 3028-3041.	7.8	112
12	Experimental evidence for the age dependence of tau protein spread in the brain. <i>Science Advances</i> , 2019, 5, eaaw6404.	10.3	103
13	Acetylated tau inhibits chaperone-mediated autophagy and promotes tau pathology propagation in mice. <i>Nature Communications</i> , 2021, 12, 2238.	12.8	101
14	Human Tau Isoforms Assemble into Ribbon-like Fibrils That Display Polymorphic Structure and Stability. <i>Journal of Biological Chemistry</i> , 2010, 285, 27302-27313.	3.4	96
15	Multiparametric high-resolution imaging of native proteins by force-distance curve-based AFM. <i>Nature Protocols</i> , 2014, 9, 1113-1130.	12.0	95
16	Tau Antibody Targeting Pathological Species Blocks Neuronal Uptake and Interneuron Propagation of Tau in Vitro. <i>American Journal of Pathology</i> , 2017, 187, 1399-1412.	3.8	92
17	Seed-competent high-molecular-weight tau species accumulates in the cerebrospinal fluid of Alzheimer's disease mouse model and human patients. <i>Annals of Neurology</i> , 2016, 80, 355-367.	5.3	89
18	Propagation of tau pathology in Alzheimer's disease: identification of novel therapeutic targets. <i>Alzheimer's Research and Therapy</i> , 2013, 5, 49.	6.2	84

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19	Stages and Conformations of the Tau Repeat Domain during Aggregation and Its Effect on Neuronal Toxicity. <i>Journal of Biological Chemistry</i> , 2014, 289, 20318-20332.	3.4	77
20	TIA1 potentiates tau phase separation and promotes generation of toxic oligomeric tau. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	72
21	Formation, release, and internalization of stable tau oligomers in cells. <i>Journal of Neurochemistry</i> , 2016, 139, 1163-1174.	3.9	49
22	Competing Interactions Stabilize Pro- and Anti-aggregant Conformations of Human Tau. <i>Journal of Biological Chemistry</i> , 2011, 286, 20512-20524.	3.4	44
23	Tau Causes Synapse Loss without Disrupting Calcium Homeostasis in the rTg4510 Model of Tauopathy. <i>PLoS ONE</i> , 2013, 8, e80834.	2.5	38
24	Characterization of TauC3 antibody and demonstration of its potential to block tau propagation. <i>PLoS ONE</i> , 2017, 12, e0177914.	2.5	36
25	Molecular crowding and RNA synergize to promote phase separation, microtubule interaction, and seeding of Tau condensates. <i>EMBO Journal</i> , 2022, 41, e108882.	7.8	33
26	Structural studies on the mechanism of protein aggregation in age related neurodegenerative diseases. <i>Mechanisms of Ageing and Development</i> , 2016, 156, 1-13.	4.6	31
27	Reversible Cation-Selective Attachment and Self-Assembly of Human Tau on Supported Brain Lipid Membranes. <i>Nano Letters</i> , 2018, 18, 3271-3281.	9.1	31
28	Persistent repression of tau in the brain using engineered zinc finger protein transcription factors. <i>Science Advances</i> , 2021, 7, .	10.3	31
29	Biomolecular condensation of the microtubule-associated protein tau. <i>Seminars in Cell and Developmental Biology</i> , 2020, 99, 202-214.	5.0	27
30	3D Visualization of the Temporal and Spatial Spread of Tau Pathology Reveals Extensive Sites of Tau Accumulation Associated with Neuronal Loss and Recognition Memory Deficit in Aged Tau Transgenic Mice. <i>PLoS ONE</i> , 2016, 11, e0159463.	2.5	27
31	Studying tau protein propagation and pathology in the mouse brain using adeno-associated viruses. <i>Methods in Cell Biology</i> , 2017, 141, 307-322.	1.1	23
32	Nuclear Transport Deficits in Tau-Related Neurodegenerative Diseases. <i>Frontiers in Neurology</i> , 2020, 11, 1056.	2.4	23
33	Isoform- and cell type-specific structure of apolipoprotein E lipoparticles as revealed by a novel Forster resonance energy transfer assay. <i>Journal of Biological Chemistry</i> , 2017, 292, 14720-14729.	3.4	20
34	Isoform-selective decrease of glycogen synthase kinase-3-beta (GSK-3 $\beta$ ) reduces synaptic tau phosphorylation, transcellular spreading, and aggregation. <i>iScience</i> , 2021, 24, 102058.	4.1	16
35	Liquid-Liquid Phase Separation of Tau Protein in Neurobiology and Pathology. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1184, 341-357.	1.6	13
36	A flow cytometry-based in vitro assay reveals that formation of apolipoprotein E (ApoE)-amyloid beta complexes depends on ApoE isoform and cell type. <i>Journal of Biological Chemistry</i> , 2018, 293, 13247-13256.	3.4	11

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37	Investigating Fibrillar Aggregates of Tau Protein by Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2012, 849, 169-183.	0.9	7
38	Phosphorylation but Not Oligomerization Drives the Accumulation of Tau with Nucleoporin Nup98. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3495.	4.1	6
39	O2-01-01: Neurofibrillary tangles remain functionally integrated in cortical networks. , 2013, 9, P314-P314.		0
40	O4-09-04: UNRAVELING THE ROLE OF APOLIPOPROTEIN E IN AGE- AND ABETA-RELATED NEURONAL DYSFUNCTION. , 2014, 10, P269-P269.		0
41	P3-071: A unique high-molecular-weight tau species is involved in propagation and accumulates in the cerebrospinal fluid of Alzheimer's disease patients. , 2015, 11, P644-P644.		0
42	O2-06-01: Lack of endogenous tau permits tau spreading and protects against tau toxicity in transgenic mice. , 2015, 11, P186-P186.		0
43	ECâ€³â€³: Tau Spreading and Toxicity. <i>Alzheimer's and Dementia</i> , 2016, 12, P269.	0.8	0