

Jan Bieschke

List of Publications by Citations

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42
papers

5,446
citations

29
h-index

49
g-index

49
ext. papers

6,009
ext. citations

7.9
avg, IF

5.29
L-index

#	Paper	IF	Citations
42	EGCG redirects amyloidogenic polypeptides into unstructured, off-pathway oligomers. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 558-66	17.6	1065
41	EGCG remodels mature alpha-synuclein and amyloid-beta fibrils and reduces cellular toxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7710-5	11.5	726
40	Opposing activities protect against age-onset proteotoxicity. <i>Science</i> , 2006 , 313, 1604-10	33.3	701
39	Small-molecule conversion of toxic oligomers to nontoxic β -sheet-rich amyloid fibrils. <i>Nature Chemical Biology</i> , 2011 , 8, 93-101	11.7	337
38	Ultrasensitive detection of pathological prion protein aggregates by dual-color scanning for intensely fluorescent targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 5468-73	11.5	196
37	Metabolite-initiated protein misfolding may trigger Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 4752-7	11.5	195
36	Structure-function-folding relationship in a WW domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10648-53	11.5	176
35	Kinetic investigations by fluorescence correlation spectroscopy: the analytical and diagnostic potential of diffusion studies. <i>Biophysical Chemistry</i> , 1997 , 66, 211-28	3.5	150
34	Tau Trimers Are the Minimal Propagation Unit Spontaneously Internalized to Seed Intracellular Aggregation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14893-903	5.4	140
33	Rapid assay processing by integration of dual-color fluorescence cross-correlation spectroscopy: high throughput screening for enzyme activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 1421-6	11.5	138
32	The green tea polyphenol (-)-epigallocatechin gallate prevents the aggregation of tau protein into toxic oligomers at substoichiometric ratios. <i>FEBS Letters</i> , 2015 , 589, 77-83	3.8	134
31	The oxidative stress metabolite 4-hydroxynonenal promotes Alzheimer protofibril formation. <i>Biochemistry</i> , 2007 , 46, 1503-10	3.2	129
30	Structural properties of EGCG-induced, nontoxic Alzheimer's disease A β oligomers. <i>Journal of Molecular Biology</i> , 2012 , 421, 517-24	6.5	126
29	Oxidative metabolites accelerate Alzheimer's amyloidogenesis by a two-step mechanism, eliminating the requirement for nucleation. <i>Biochemistry</i> , 2005 , 44, 4977-83	3.2	125
28	Black tea theaflavins inhibit formation of toxic amyloid- β and β -synuclein fibrils. <i>Biochemistry</i> , 2011 , 50, 10624-36	3.2	98
27	Autocatalytic self-propagation of misfolded prion protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 12207-11	11.5	97
26	Small molecule oxidation products trigger disease-associated protein misfolding. <i>Accounts of Chemical Research</i> , 2006 , 39, 611-9	24.3	92

25	Bacterial inclusion bodies of Alzheimer's disease amyloid peptides can be employed to study native-like aggregation intermediate states. <i>ChemBioChem</i> , 2011 , 12, 407-23	3.8	81
24	Differential constitutive and activation-dependent expression of prion protein in human peripheral blood leucocytes. <i>British Journal of Haematology</i> , 2000 , 108, 488-95	4.5	63
23	Systematic identification of antiprion drugs by high-throughput screening based on scanning for intensely fluorescent targets. <i>Journal of Virology</i> , 2005 , 79, 7785-91	6.6	62
22	Amyloid- β (1-42) Aggregation Initiates Its Cellular Uptake and Cytotoxicity. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19590-606	5.4	61
21	Natural compounds may open new routes to treatment of amyloid diseases. <i>Neurotherapeutics</i> , 2013 , 10, 429-39	6.4	55
20	670 nm laser light and EGCG complementarily reduce amyloid- β aggregates in human neuroblastoma cells: basis for treatment of Alzheimer's disease?. <i>Photomedicine and Laser Surgery</i> , 2012 , 30, 54-60		50
19	Single particle detection and characterization of synuclein co-aggregation. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 333, 1202-10	3.4	46
18	Detection of TAR DNA-binding protein 43 (TDP-43) oligomers as initial intermediate species during aggregate formation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 6696-6709	5.4	44
17	E-olefin dipeptide isostere incorporation into a polypeptide backbone enables hydrogen bond perturbation: probing the requirements for Alzheimer's amyloidogenesis. <i>Journal of the American Chemical Society</i> , 2005 , 127, 15366-7	16.4	43
16	The Effect of (-)-Epigallo-catechin-(3)-gallate on Amyloidogenic Proteins Suggests a Common Mechanism. <i>Advances in Experimental Medicine and Biology</i> , 2015 , 863, 139-61	3.6	40
15	Amide-to-E-olefin versus amide-to-ester backbone H-bond perturbations: Evaluating the O-O repulsion for extracting H-bond energies. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15948-9	16.4	36
14	Alzheimer's Abeta peptides containing an isostructural backbone mutation afford distinct aggregate morphologies but analogous cytotoxicity. Evidence for a common low-abundance toxic structure(s)?. <i>Biochemistry</i> , 2008 , 47, 50-9	3.2	35
13	Counting unstained, confluent cells by modified bright-field microscopy. <i>BioTechniques</i> , 2013 , 55, 28-33	2.5	29
12	A kinetic assessment of the <i>C. elegans</i> amyloid disaggregation activity enables uncoupling of disassembly and proteolysis. <i>Protein Science</i> , 2009 , 18, 2231-41	6.3	29
11	Aggregation of Full-length Immunoglobulin Light Chains from Systemic Light Chain Amyloidosis (AL) Patients Is Remodeled by Epigallocatechin-3-gallate. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2328-2344	5.4	26
10	Surface adsorption considerations when working with amyloid fibrils in multiwell plates and Eppendorf tubes. <i>Protein Science</i> , 2013 , 22, 1531-41	6.3	25
9	Stabilization of Synuclein Fibril Clusters Prevents Fragmentation and Reduces Seeding Activity and Toxicity. <i>Biochemistry</i> , 2016 , 55, 675-85	3.2	22
8	Super-resolution Imaging of Amyloid Structures over Extended Times by Using Transient Binding of Single Thioflavin T Molecules. <i>ChemBioChem</i> , 2018 , 19, 1944-1948	3.8	21

7	Desmin forms toxic, seeding-competent amyloid aggregates that persist in muscle fibers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16835-16840	11.5	18
6	Glucose directs amyloid-beta into membrane-active oligomers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18036-18046	3.6	14
5	Automated PrPres amplification using indirect sonication. <i>Journal of Proteomics</i> , 2005 , 63, 213-21		13
4	Brazilin Removes Toxic Alpha-Synuclein and Seeding Competent Assemblies from Parkinson Brain by Altering Conformational Equilibrium. <i>Journal of Molecular Biology</i> , 2021 , 433, 166878	6.5	3
3	Long-term, super-resolution imaging of amyloid structures using transient amyloid binding microscopy 2019 ,		2
2	Größer Tee [heute Einsichten für einen alten Wirkstoff. <i>Chemie in Unserer Zeit</i> , 2010 , 44, 306-307	0.2	1
1	VCP suppresses proteopathic seeding in neurons.. <i>Molecular Neurodegeneration</i> , 2022 , 17, 30	19	0