

Janet R Kumita

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72
papers

3,538
citations

33
h-index

59
g-index

77
ext. papers

4,258
ext. citations

7.2
avg, IF

4.91
L-index

#	Paper	IF	Citations
72	Intercellular propagated misfolding of wild-type Cu/Zn superoxide dismutase occurs via exosome-dependent and -independent mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3620-5	11.5	293
71	ANS binding reveals common features of cytotoxic amyloid species. <i>ACS Chemical Biology</i> , 2010 , 5, 735-40	10.9	291
70	The extracellular chaperone clusterin influences amyloid formation and toxicity by interacting with prefibrillar structures. <i>FASEB Journal</i> , 2007 , 21, 2312-22	0.9	237
69	Alpha-helix formation in a photoswitchable peptide tracked from picoseconds to microseconds by time-resolved IR spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2379-84	11.5	174
68	Protein amyloids develop an intrinsic fluorescence signature during aggregation. <i>Analyst, The</i> , 2013 , 138, 2156-62	5	140
67	Systematic development of small molecules to inhibit specific microscopic steps of A β 2 aggregation in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E200-E208	11.5	134
66	Using an azobenzene cross-linker to either increase or decrease peptide helix content upon trans-to-cis photoisomerization. <i>Chemistry and Biology</i> , 2002 , 9, 391-7		130
65	A prion-like domain in ELF3 functions as a thermosensor in Arabidopsis. <i>Nature</i> , 2020 , 585, 256-260	50.4	128
64	Cholesterol catalyses A β 2 aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. <i>Nature Chemistry</i> , 2018 , 10, 673-683	17.6	126
63	The non-core regions of human lysozyme amyloid fibrils influence cytotoxicity. <i>Journal of Molecular Biology</i> , 2010 , 402, 783-96	6.5	84
62	Molecular determinants of the aggregation behavior of alpha- and beta-synuclein. <i>Protein Science</i> , 2008 , 17, 887-98	6.3	84
61	Normal and aberrant biological self-assembly: Insights from studies of human lysozyme and its amyloidogenic variants. <i>Accounts of Chemical Research</i> , 2006 , 39, 603-10	24.3	84
60	A FRET sensor for non-invasive imaging of amyloid formation in vivo. <i>ChemPhysChem</i> , 2011 , 12, 673-680	3.2	76
59	Secondary nucleation and elongation occur at different sites on Alzheimer's amyloid- β aggregates. <i>Science Advances</i> , 2019 , 5, eaau3112	14.3	74
58	The extracellular chaperone clusterin potently inhibits human lysozyme amyloid formation by interacting with prefibrillar species. <i>Journal of Molecular Biology</i> , 2007 , 369, 157-67	6.5	74
57	alpha2-Macroglobulin and haptoglobin suppress amyloid formation by interacting with prefibrillar protein species. <i>Journal of Biological Chemistry</i> , 2009 , 284, 4246-54	5.4	72
56	A water-soluble azobenzene cross-linker for photocontrol of peptide conformation. <i>Bioconjugate Chemistry</i> , 2003 , 14, 824-9	6.3	69

55	Trodusquemine enhances A β aggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019 , 10, 225	17.4	69
54	Population of nonnative states of lysozyme variants drives amyloid fibril formation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7737-7743	16.4	67
53	Towards multiparametric fluorescent imaging of amyloid formation: studies of a YFP model of alpha-synuclein aggregation. <i>Journal of Molecular Biology</i> , 2010 , 395, 627-42	6.5	62
52	The kinetics of helix unfolding of an azobenzene cross-linked peptide probed by nanosecond time-resolved optical rotatory dispersion. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12443-9	16.4	60
51	Engineering a camelid antibody fragment that binds to the active site of human lysozyme and inhibits its conversion into amyloid fibrils. <i>Biochemistry</i> , 2008 , 47, 11041-54	3.2	58
50	Defining β synuclein species responsible for Parkinson's disease phenotypes in mice. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10392-10406	5.4	55
49	Multistep Inhibition of β Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. <i>ACS Chemical Biology</i> , 2018 , 13, 2308-2319	4.9	52
48	Hypochlorite-induced structural modifications enhance the chaperone activity of human α -macroglobulin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, E2081-90	11.5	49
47	Local cooperativity in an amyloidogenic state of human lysozyme observed at atomic resolution. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15580-8	16.4	49
46	Disulfide bonds reduce the toxicity of the amyloid fibrils formed by an extracellular protein. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7048-51	16.4	48
45	Inhibition of β Synuclein Fibril Elongation by Hsp70 Is Governed by a Kinetic Binding Competition between β Synuclein Species. <i>Biochemistry</i> , 2017 , 56, 1177-1180	3.2	45
44	Impact of the native-state stability of human lysozyme variants on protein secretion by <i>Pichia pastoris</i> . <i>FEBS Journal</i> , 2006 , 273, 711-20	5.7	43
43	Single-Molecule Characterization of the Interactions between Extracellular Chaperones and Toxic β Synuclein Oligomers. <i>Cell Reports</i> , 2018 , 23, 3492-3500	10.6	42
42	Native-state stability determines the extent of degradation relative to secretion of protein variants from <i>Pichia pastoris</i> . <i>PLoS ONE</i> , 2011 , 6, e22692	3.7	41
41	Rationalising lysozyme amyloidosis: insights from the structure and solution dynamics of T70N lysozyme. <i>Journal of Molecular Biology</i> , 2005 , 352, 823-36	6.5	39
40	Clusterin protects neurons against intracellular proteotoxicity. <i>Acta Neuropathologica Communications</i> , 2017 , 5, 81	7.3	33
39	A nanobody binding to non-amyloidogenic regions of the protein human lysozyme enhances partial unfolding but inhibits amyloid fibril formation. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 13245-13258	3.4	33
38	Human pregnancy zone protein stabilizes misfolded proteins including preeclampsia- and Alzheimer's-associated amyloid beta peptide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6101-6110	11.5	32

37	Protease-activated alpha-2-macroglobulin can inhibit amyloid formation via two distinct mechanisms. <i>FEBS Letters</i> , 2013 , 587, 398-403	3.8	32
36	The Influence of Pathogenic Mutations in β Synuclein on Biophysical and Structural Characteristics of Amyloid Fibrils. <i>ACS Nano</i> , 2020 , 14, 5213-5222	16.7	24
35	Achieving photo-control of protein conformation and activity: producing a photo-controlled leucine zipper. <i>Faraday Discussions</i> , 2003 , 122, 89-103; discussion 171-90	3.6	24
34	Fabrication and Characterization of Reconstituted Silk Microgels for the Storage and Release of Small Molecules. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800898	4.8	23
33	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020 , 3, 435	6.7	23
32	Analysis of the native structure, stability and aggregation of biotinylated human lysozyme. <i>PLoS ONE</i> , 2012 , 7, e50192	3.7	20
31	A non-natural variant of human lysozyme (I59T) mimics the in vitro behaviour of the I56T variant that is responsible for a form of familial amyloidosis. <i>Protein Engineering, Design and Selection</i> , 2010 , 23, 499-506	1.9	17
30	Flow cytometric measurement of the cellular propagation of TDP-43 aggregation. <i>Prion</i> , 2017 , 11, 195-204	2.4	16
29	Structure and dynamics of the integrin LFA-1 I-domain in the inactive state underlie its inside-out/outside-in signaling and allosteric mechanisms. <i>Structure</i> , 2015 , 23, 745-53	5.2	15
28	The influence of novel gemini surfactants containing cycloalkyl side-chains on the structural phases of DNA in solution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 131, 83-92	6	15
27	Disease-related amyloidogenic variants of human lysozyme trigger the unfolded protein response and disturb eye development in <i>Drosophila melanogaster</i> . <i>FASEB Journal</i> , 2012 , 26, 192-202	0.9	15
26	Amyloid-like Fibrils from an β Helical Transmembrane Protein. <i>Biochemistry</i> , 2017 , 56, 3225-3233	3.2	14
25	The relevance of contact-independent cell-to-cell transfer of TDP-43 and SOD1 in amyotrophic lateral sclerosis. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 2762-2771	6.9	14
24	A cysteine-free firefly luciferase retains luminescence activity. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 267, 394-7	3.4	13
23	The Significance of the Location of Mutations for the Native-State Dynamics of Human Lysozyme. <i>Biophysical Journal</i> , 2016 , 111, 2358-2367	2.9	12
22	Chemical and mechanistic analysis of photodynamic inhibition of Alzheimer's β amyloid aggregation. <i>Chemical Communications</i> , 2019 , 55, 1152-1155	5.8	11
21	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid- β and β Synuclein and Suppress the Toxicity of Their Oligomers. <i>Frontiers in Neuroscience</i> , 2021 , 15, 680026	5.1	11
20	Solvent exposure of Tyr10 as a probe of structural differences between monomeric and aggregated forms of the amyloid- β peptide. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 468, 696-701	3.4	8

19	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid- β Oligomers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
18	NMR characterization of the conformational fluctuations of the human lymphocyte function-associated antigen-1 I-domain. <i>Protein Science</i> , 2014 , 23, 1596-606	6.3	7
17	Alpha-2-Macroglobulin Is Acutely Sensitive to Freezing and Lyophilization: Implications for Structural and Functional Studies. <i>PLoS ONE</i> , 2015 , 10, e0130036	3.7	7
16	Protein Chemistry of Amyloid Fibrils and Chaperones: Implications for Amyloid Formation and Disease. <i>Current Chemical Biology</i> , 2010 , 4, 89-98	0.4	7
15	Different Folding States from the Same Protein Sequence Determine Reversible vs Irreversible Amyloid Fate. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11473-11481	16.4	7
14	Disulfide Bonds Reduce the Toxicity of the Amyloid Fibrils Formed by an Extracellular Protein. <i>Angewandte Chemie</i> , 2011 , 123, 7186-7189	3.6	6
13	Cholesterol-rich naked mole-rat brain lipid membranes are susceptible to amyloid beta-induced damage. <i>Aging</i> , 2020 , 12, 22266-22290	5.6	6
12	A dopamine metabolite stabilizes neurotoxic amyloid- β oligomers. <i>Communications Biology</i> , 2021 , 4, 19	6.7	6
11	Application of Lysine-specific Labeling to Detect Transient Interactions Present During Human Lysozyme Amyloid Fibril Formation. <i>Scientific Reports</i> , 2017 , 7, 15018	4.9	5
10	Rapid Structural, Kinetic, and Immunochemical Analysis of Alpha-Synuclein Oligomers in Solution. <i>Nano Letters</i> , 2020 , 20, 8163-8169	11.5	5
9	Comparative Studies in the A30P and A53T β synuclein Strains to Investigate the Molecular Origins of Parkinson's Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 552549	5.7	5
8	Engineering mono- and multi-valent inhibitors on a modular scaffold. <i>Chemical Science</i> , 2021 , 12, 880-895	5.4	4
7	Using Tetracysteine-Tagged TDP-43 with a Biarsenical Dye To Monitor Real-Time Trafficking in a Cell Model of Amyotrophic Lateral Sclerosis. <i>Biochemistry</i> , 2019 , 58, 4086-4095	3.2	3
6	Mapping pathogenic processes contributing to neurodegeneration in Drosophila models of Alzheimer's disease. <i>FEBS Open Bio</i> , 2020 , 10, 338-350	2.7	3
5	Probing the unfolded protein response in long-lived naked mole-rats. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 529, 1151-1157	3.4	3
4	Serum amyloid P component promotes formation of distinct aggregated lysozyme morphologies and reduces toxicity in Drosophila flies expressing F57I lysozyme. <i>PLoS ONE</i> , 2020 , 15, e0227227	3.7	1
3	Characterisation of the structural, dynamic and aggregation properties of the W64R amyloidogenic variant of human lysozyme. <i>Biophysical Chemistry</i> , 2021 , 271, 106563	3.5	1
2	Exogenous misfolded protein oligomers can cross the intestinal barrier and cause a disease phenotype in <i>C. elegans</i> . <i>Scientific Reports</i> , 2021 , 11, 14391	4.9	1

1 Homage to Chris Dobson. *Frontiers in Molecular Biosciences*, **2019**, 6, 137

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