

Elizabeth Rhoades

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

2,794
citations

28
h-index

52
g-index

64
ext. papers

3,292
ext. citations

6.9
avg, IF

5.59
L-index

#	Paper	IF	Citations
58	Watching proteins fold one molecule at a time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 3197-202	11.5	311
57	Effects of curvature and composition on β -synuclein binding to lipid vesicles. <i>Biophysical Journal</i> , 2010 , 99, 2279-88	2.9	238
56	Quantification of alpha-synuclein binding to lipid vesicles using fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2006 , 90, 4692-700	2.9	207
55	Alpha-synuclein binds large unilamellar vesicles as an extended helix. <i>Biochemistry</i> , 2009 , 48, 2304-6	3.2	172
54	Two-state folding observed in individual protein molecules. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14686-7	16.4	153
53	Islet amyloid polypeptide demonstrates a persistent capacity to disrupt membrane integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 9460-5	11.5	113
52	N-Terminal acetylation is critical for forming β -helical oligomer of β -synuclein. <i>Protein Science</i> , 2012 , 21, 601-5	6.3	105
51	Identification of an aggregation-prone structure of tau. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16607-13	16.4	102
50	The conformational ensembles of β -synuclein and tau: combining single-molecule FRET and simulations. <i>Biophysical Journal</i> , 2012 , 103, 1940-9	2.9	101
49	Allostery in a disordered protein: oxidative modifications to β -synuclein act distally to regulate membrane binding. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7152-8	16.4	99
48	Single molecule characterization of β -synuclein in aggregation-prone states. <i>Biophysical Journal</i> , 2010 , 99, 3048-55	2.9	81
47	Fluorescence correlation spectroscopy reveals highly efficient cytosolic delivery of certain penta-arg proteins and stapled peptides. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2536-2541	16.4	78
46	The role of the lipid bilayer in tau aggregation. <i>Biophysical Journal</i> , 2010 , 98, 2722-30	2.9	78
45	Tau mutants bind tubulin heterodimers with enhanced affinity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6311-6	11.5	59
44	IDPs in macromolecular complexes: the roles of multivalent interactions in diverse assemblies. <i>Current Opinion in Structural Biology</i> , 2018 , 49, 36-43	8.1	54
43	Cross-Scale Integrin Regulation Organizes ECM and Tissue Topology. <i>Developmental Cell</i> , 2015 , 34, 33-44	10.2	52
42	Two Na ⁺ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1456-71	5.4	51

41	A functional role for intrinsic disorder in the tau-tubulin complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14336-14341	11.5	43
40	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016 , 7, 11412	17.4	43
39	Single-molecule fluorescence spectroscopy using phospholipid bilayer nanodiscs. <i>Methods in Enzymology</i> , 2010 , 472, 89-117	1.7	43
38	Islet amyloid-induced cell death and bilayer integrity loss share a molecular origin targetable with oligopyridylamide-based helical mimetics. <i>Chemistry and Biology</i> , 2015 , 22, 369-78		40
37	Conformation and Dynamics of the Troponin I C-Terminal Domain: Combining Single-Molecule and Computational Approaches for a Disordered Protein Region. <i>Journal of the American Chemical Society</i> , 2015 , 137, 11962-9	16.4	40
36	Tau Binds to Multiple Tubulin Dimers with Helical Structure. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9218-21	16.4	36
35	A membrane-bound antiparallel dimer of rat islet amyloid polypeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10859-62	16.4	35
34	Fluorescence characterization of denatured proteins. <i>Current Opinion in Structural Biology</i> , 2008 , 18, 516-24	8.1	35
33	Membrane remodeling and mechanics: Experiments and simulations of β synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1594-609	3.8	32
32	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018 , 9, 1312	17.4	30
31	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. <i>Alzheimers and Dementia</i> , 2019 , 15, 1489-1502	1.2	30
30	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated β synuclein. <i>PLoS Biology</i> , 2019 , 17, e3000318	9.7	25
29	Conformational changes in Arp2/3 complex induced by ATP, WASp-VCA, and actin filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8642-E8651	11.5	25
28	Single-Molecule FRET of Intrinsically Disordered Proteins. <i>Annual Review of Physical Chemistry</i> , 2020 , 71, 391-414	15.7	23
27	Using a FRET Library with Multiple Probe Pairs To Drive Monte Carlo Simulations of β synuclein. <i>Biophysical Journal</i> , 2018 , 114, 53-64	2.9	21
26	Cyclized NDGA modifies dynamic β synuclein monomers preventing aggregation and toxicity. <i>Scientific Reports</i> , 2019 , 9, 2937	4.9	20
25	Heterogeneous Tau-Tubulin Complexes Accelerate Microtubule Polymerization. <i>Biophysical Journal</i> , 2017 , 112, 2567-2574	2.9	20
24	Physico-chemical requirements and kinetics of membrane fusion of flavivirus-like particles. <i>Journal of General Virology</i> , 2015 , 96, 1702-11	4.9	18

23	βSynuclein Uniquely Long Amphipathic Helix Enhances its Membrane Binding and Remodeling Capacity. <i>Journal of Membrane Biology</i> , 2017 , 250, 183-193	2.3	16
22	Polyphosphate Initiates Tau Aggregation through Intra- and Intermolecular Scaffolding. <i>Biophysical Journal</i> , 2019 , 117, 717-728	2.9	15
21	Order-Disorder Transitions in the Cardiac Troponin Complex. <i>Journal of Molecular Biology</i> , 2016 , 428, 2965-77	6.5	15
20	Independent tubulin binding and polymerization by the proline-rich region of Tau is regulated by Tau's N-terminal domain. <i>Journal of Biological Chemistry</i> , 2019 , 294, 19381-19394	5.4	15
19	Unique arginine array improves cytosolic localization of hydrocarbon-stapled peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 1197-1202	3.4	15
18	Investigation of intramolecular dynamics and conformations of β and γ Synuclein. <i>PLoS ONE</i> , 2014 , 9, e86983	3.7	13
17	Chemoenzymatic Semisynthesis of Phosphorylated βSynuclein Enables Identification of a Bidirectional Effect on Fibril Formation. <i>ACS Chemical Biology</i> , 2020 , 15, 640-645	4.9	12
16	Insights into tau function and dysfunction through single-molecule fluorescence. <i>Methods in Cell Biology</i> , 2017 , 141, 27-44	1.8	10
15	Structure-Based Small Molecule Modulation of a Pre-Amyloid State: Pharmacological Enhancement of IAPP Membrane-Binding and Toxicity. <i>Biochemistry</i> , 2015 , 54, 3555-64	3.2	10
14	Effects of Glutamate Arginylation on βSynuclein: Studying an Unusual Post-Translational Modification through Semisynthesis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 21786-21798	16.4	10
13	Folding upon phosphorylation: translational regulation by a disorder-to-order transition. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 243-4	10.3	9
12	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. <i>Methods in Enzymology</i> , 2018 , 611, 703-734	1.7	9
11	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. <i>Npj Parkinsons Disease</i> , 2021 , 7, 52	9.7	6
10	Chemoenzymatic Semi-synthesis Enables Efficient Production of Isotopically Labeled βSynuclein with Site-Specific Tyrosine Phosphorylation. <i>ChemBioChem</i> , 2021 , 22, 1440-1447	3.8	6
9	Tau Avoids the GTP Cap at Growing Microtubule Plus-Ends. <i>iScience</i> , 2020 , 23, 101782	6.1	4
8	Structural Characterization of Tau in Fuzzy Tau:Tubulin Complexes. <i>Structure</i> , 2020 , 28, 378-384.e4	5.2	4
7	Quantification of protein delivery in live cells using fluorescence correlation spectroscopy. <i>Methods in Enzymology</i> , 2020 , 641, 477-505	1.7	3
6	A Membrane-Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. <i>Angewandte Chemie</i> , 2011 , 123, 11051-11054	3.6	2

5	βSynuclein arginylation in the human brain.. <i>Translational Neurodegeneration</i> , 2022 , 11, 20	10.3	2
4	Tau avoids the GTP cap at growing microtubule plus ends		1
3	Measuring Interactions Between Tau and Aggregation Inducers with Single-Molecule Förster Resonance Energy Transfer. <i>Methods in Molecular Biology</i> , 2020 , 2141, 755-775	1.4	1
2	Cysteine-Based Mimic of Arginylation Reproduces Neuroprotective Effects of the Authentic Post-Translational Modification on βSynuclein.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	1
1	Determining a Functional Mechanism for a Dysfunctional Protein. <i>FASEB Journal</i> , 2015 , 29, 226.2	0.9	