Elizabeth Rhoades

List of Publications by Year
in descending order

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58 papers	3,611 citations	147801 31 h-index	138484 58 g-index
64 all docs	64 docs citations	64 times ranked	4569 citing authors

#	Article	IF	Citations
1	Watching proteins fold one molecule at a time. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3197-3202.	7.1	343
2	Effects of Curvature and Composition on Î±-Synuclein Binding to Lipid Vesicles. Biophysical Journal, 2010, 99, 2279-2288.	0.5	306
3	Quantification of Î±-Synuclein Binding to Lipid Vesicles Using Fluorescence Correlation Spectroscopy. Biophysical Journal, 2006, 90, 4692-4700.	0.5	235
4	Î±-Synuclein Binds Large Unilamellar Vesicles as an Extended Helix. Biochemistry, 2009, 48, 2304-2306.	2.5	199
5	Two-State Folding Observed in Individual Protein Molecules. Journal of the American Chemical Society, 2004, 126, 14686-14687.	13.7	169
6	Nâ€terminal acetylation is critical for forming Î±â€helical oligomer of Î±â€synuclein. Protein Science, 2012, 21, 601-605.	7.6	128
7	Islet amyloid polypeptide demonstrates a persistent capacity to disrupt membrane integrity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9460-9465.	7.1	127
8	Identification of an Aggregation-Prone Structure of Tau. Journal of the American Chemical Society, 2012, 134, 16607-16613.	13.7	127
9	Allostery in a Disordered Protein: Oxidative Modifications to Î±-Synuclein Act Distally To Regulate Membrane Binding. Journal of the American Chemical Society, 2011, 133, 7152-7158.	13.7	124
10	The Conformational Ensembles of Î±-Synuclein and Tau: Combining Single-Molecule FRET and Simulations. Biophysical Journal, 2012, 103, 1940-1949.	0.5	119
11	The Role of the Lipid Bilayer in Tau Aggregation. Biophysical Journal, 2010, 98, 2722-2730.	0.5	108
12	Single Molecule Characterization of Î±-Synuclein in Aggregation-Prone States. Biophysical Journal, 2010, 99, 3048-3055.	0.5	104
13	Fluorescence Correlation Spectroscopy Reveals Highly Efficient Cytosolic Delivery of Certain Penta-Arg Proteins and Stapled Peptides. Journal of the American Chemical Society, 2015, 137, 2536-2541.	13.7	99
14	IDPs in macromolecular complexes: the roles of multivalent interactions in diverse assemblies. Current Opinion in Structural Biology, 2018, 49, 36-43.	5.7	98
15	Cross-Scale Integrin Regulation Organizes ECM and Tissue Topology. Developmental Cell, 2015, 34, 33-44.	7.0	73
16	Tau mutants bind tubulin heterodimers with enhanced affinity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6311-6316.	7.1	67
17	A functional role for intrinsic disorder in the tau-tubulin complex. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14336-14341.	7.1	66
18	Two Na+ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. Journal of Biological Chemistry, 2016, 291, 1456-1471.	3.4	65

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19	Foldamer-mediated manipulation of a pre-amyloid toxin. Nature Communications, 2016, 7, 11412.	12.8	56
20	Islet Amyloid-Induced Cell Death and Bilayer Integrity Loss Share a Molecular Origin Targetable with Oligopyridylamide-Based Î±-Helical Mimetics. Chemistry and Biology, 2015, 22, 369-378.	6.0	55
21	Conformation and Dynamics of the Troponin I C-Terminal Domain: Combining Single-Molecule and Computational Approaches for a Disordered Protein Region. Journal of the American Chemical Society, 2015, 137, 11962-11969.	13.7	54
22	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. Alzheimer's and Dementia, 2019, 15, 1489-1502.	0.8	53
23	Tau Binds to Multiple Tubulin Dimers with Helical Structure. Journal of the American Chemical Society, 2015, 137, 9218-9221.	13.7	51
24	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. Nature Communications, 2018, 9, 1312.	12.8	50
25	Single-Molecule Fluorescence Spectroscopy Using Phospholipid Bilayer Nanodiscs. Methods in Enzymology, 2010, 472, 89-117.	1.0	49
26	Single-Molecule FRET of Intrinsically Disordered Proteins. Annual Review of Physical Chemistry, 2020, 71, 391-414.	10.8	48
27	Fluorescence characterization of denatured proteins. Current Opinion in Structural Biology, 2008, 18, 516-524.	5.7	44
28	Membrane remodeling and mechanics: Experiments and simulations of Î±-Synuclein. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1594-1609.	2.6	43
29	Conformational changes in Arp2/3 complex induced by ATP, WASp-VCA, and actin filaments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8642-E8651.	7.1	43
30	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated Î±-Synuclein. PLoS Biology, 2019, 17, e3000318.	5.6	42
31	A Membraneâ€Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. Angewandte Chemie - International Edition, 2011, 50, 10859-10862.	13.8	37
32	Independent tubulin binding and polymerization by the proline-rich region of Tau is regulated by Tau's N-terminal domain. Journal of Biological Chemistry, 2019, 294, 19381-19394.	3.4	33
33	Cyclized NDGA modifies dynamic Î±-synuclein monomers preventing aggregation and toxicity. Scientific Reports, 2019, 9, 2937.	3.3	31
34	Polyphosphate Initiates Tau Aggregation through Intra- and Intermolecular Scaffolding. Biophysical Journal, 2019, 117, 717-728.	0.5	30
35	Heterogeneous Tau-Tubulin Complexes Accelerate Microtubule Polymerization. Biophysical Journal, 2017, 112, 2567-2574.	0.5	29
36	Î±-Synucleinâ€™s Uniquely Long Amphipathic Helix Enhances its Membrane Binding and Remodeling Capacity. Journal of Membrane Biology, 2017, 250, 183-193.	2.1	27

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37	Using a FRET Library with Multiple Probe Pairs ToÂDrive Monte Carlo Simulations of Î±-Synuclein. Biophysical Journal, 2018, 114, 53-64.	0.5	26
38	Physico-chemical requirements and kinetics of membrane fusion of flavivirus-like particles. Journal of General Virology, 2015, 96, 1702-1711.	2.9	26
39	Chemoenzymatic Semisynthesis of Phosphorylated Î±-Synuclein Enables Identification of a Bidirectional Effect on Fibril Formation. ACS Chemical Biology, 2020, 15, 640-645.	3.4	25
40	Orderâ€“Disorder Transitions in the Cardiac Troponin Complex. Journal of Molecular Biology, 2016, 428, 2965-2977.	4.2	22
41	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. Npj Parkinson's Disease, 2021, 7, 52.	5.3	22
42	Unique arginine array improves cytosolic localization of hydrocarbon-stapled peptides. Bioorganic and Medicinal Chemistry, 2018, 26, 1197-1202.	3.0	18
43	Effects of Glutamate Arginylation on Î±-Synuclein: Studying an Unusual Post-Translational Modification through Semisynthesis. Journal of the American Chemical Society, 2020, 142, 21786-21798.	13.7	16
44	Investigation of Intramolecular Dynamics and Conformations of Î±-, Î²- and Î³-Synuclein. PLoS ONE, 2014, 9, e86983.	2.5	14
45	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. Methods in Enzymology, 2018, 611, 703-734.	1.0	14
46	Insights into tau function and dysfunction through single-molecule fluorescence. Methods in Cell Biology, 2017, 141, 27-44.	1.1	12
47	Tau Avoids the GTP Cap at Growing Microtubule Plus-Ends. IScience, 2020, 23, 101782.	4.1	12
48	Structure-Based Small Molecule Modulation of a Pre-Amyloid State: Pharmacological Enhancement of IAPP Membrane-Binding and Toxicity. Biochemistry, 2015, 54, 3555-3564.	2.5	11
49	Quantification of protein delivery in live cells using fluorescence correlation spectroscopy. Methods in Enzymology, 2020, 641, 477-505.	1.0	11
50	Folding upon phosphorylation: translational regulation by a disorder-to-order transition. Trends in Biochemical Sciences, 2015, 40, 243-244.	7.5	10
51	Chemoenzymatic Semiâ€synthesis Enables Efficient Production of Isotopically Labeled Î±â€Synuclein with Siteâ€Specific Tyrosine Phosphorylation. ChemBioChem, 2021, 22, 1440-1447.	2.6	10
52	Structural Characterization of Tau in Fuzzy Tau:Tubulin Complexes. Structure, 2020, 28, 378-384.e4.	3.3	8
53	Î±-Synuclein arginylation in the human brain. Translational Neurodegeneration, 2022, 11, 20.	8.0	8
54	Cysteine-Based Mimic of Arginylation Reproduces Neuroprotective Effects of the Authentic Post-Translational Modification on Î±-Synuclein. Journal of the American Chemical Society, 2022, 144, 7911-7918.	13.7	4

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55	Measuring Interactions Between Tau and Aggregation Inducers with Single-Molecule FÃ¶rster Resonance Energy Transfer. Methods in Molecular Biology, 2020, 2141, 755-775.	0.9	2
56	Preface. Methods in Enzymology, 2018, 611, xix-xx.	1.0	1
57	Proteins: Disorder, Folding, and Crowding. Biophysical Journal, 2019, 117, 3-4.	0.5	1
58	Determining a Functional Mechanism for a Dysfunctional Protein. FASEB Journal, 2015, 29, 226.2.	0.5	0