

Elizabeth Rhoades

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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	βSynuclein arginylation in the human brain.. <i>Translational Neurodegeneration</i> , 2022 , 11, 20	10.3	2
57	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
56	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. <i>Npj Parkinsons Disease</i> , 2021 , 7, 52	9.7	6
55	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
54	Tau Avoids the GTP Cap at Growing Microtubule Plus-Ends. <i>iScience</i> , 2020 , 23, 101782	6.1	4
53	Single-Molecule FRET of Intrinsically Disordered Proteins. <i>Annual Review of Physical Chemistry</i> , 2020 , 71, 391-414	15.7	23
52	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
51	Structural Characterization of Tau in Fuzzy Tau:Tubulin Complexes. <i>Structure</i> , 2020 , 28, 378-384.e4	5.2	4
50	Quantification of protein delivery in live cells using fluorescence correlation spectroscopy. <i>Methods in Enzymology</i> , 2020 , 641, 477-505	1.7	3
49	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
48	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
47	Polyphosphate Initiates Tau Aggregation through Intra- and Intermolecular Scaffolding. <i>Biophysical Journal</i> , 2019 , 117, 717-728	2.9	15
46	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated βSynuclein. <i>PLoS Biology</i> , 2019 , 17, e3000318	9.7	25
45	Cyclized NDGA modifies dynamic βSynuclein monomers preventing aggregation and toxicity. <i>Scientific Reports</i> , 2019 , 9, 2937	4.9	20
44	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
43	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
42	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018 , 9, 1312	17.4	30

41	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
40	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
39	Unique arginine array improves cytosolic localization of hydrocarbon-stapled peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2018 , 26, 1197-1202	3.4	15
38	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. <i>Methods in Enzymology</i> , 2018 , 611, 703-734	1.7	9
37	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
36	β Synuclein Uniquely Long Amphipathic Helix Enhances its Membrane Binding and Remodeling Capacity. <i>Journal of Membrane Biology</i> , 2017 , 250, 183-193	2.3	16
35	Heterogeneous Tau-Tubulin Complexes Accelerate Microtubule Polymerization. <i>Biophysical Journal</i> , 2017 , 112, 2567-2574	2.9	20
34	Insights into tau function and dysfunction through single-molecule fluorescence. <i>Methods in Cell Biology</i> , 2017 , 141, 27-44	1.8	10
33	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
32	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016 , 7, 11412	17.4	43
31	Two Na ⁺ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1456-71	5.4	51
30	Membrane remodeling and mechanics: Experiments and simulations of β Synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016 , 1858, 1594-609	3.8	32
29	Order-Disorder Transitions in the Cardiac Troponin Complex. <i>Journal of Molecular Biology</i> , 2016 , 428, 2965-77	6.5	15
28	Folding upon phosphorylation: translational regulation by a disorder-to-order transition. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 243-4	10.3	9
27	Cross-Scale Integrin Regulation Organizes ECM and Tissue Topology. <i>Developmental Cell</i> , 2015 , 34, 33-44	10.2	52
26	Tau Binds to Multiple Tubulin Dimers with Helical Structure. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9218-21	16.4	36
25	Islet amyloid-induced cell death and bilayer integrity loss share a molecular origin targetable with oligopyridylamide-based β helical mimetics. <i>Chemistry and Biology</i> , 2015 , 22, 369-78		40
24	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

23	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
22	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
21	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
20	Determining a Functional Mechanism for a Dysfunctional Protein. <i>FASEB Journal</i> , 2015 , 29, 226.2	0.9	
19	Investigation of intramolecular dynamics and conformations of β and β synuclein. <i>PLoS ONE</i> , 2014 , 9, e86983	3.7	13
18	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
17	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
16	Identification of an aggregation-prone structure of tau. <i>Journal of the American Chemical Society</i> , 2012 , 134, 16607-13	16.4	102
15	N-Terminal acetylation is critical for forming β helical oligomer of β synuclein. <i>Protein Science</i> , 2012 , 21, 601-5	6.3	105
14	A Membrane-Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. <i>Angewandte Chemie</i> , 2011 , 123, 11051-11054	3.6	2
13	A membrane-bound antiparallel dimer of rat islet amyloid polypeptide. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10859-62	16.4	35
12	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
11	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
10	Single-molecule fluorescence spectroscopy using phospholipid bilayer nanodiscs. <i>Methods in Enzymology</i> , 2010 , 472, 89-117	1.7	43
9	The role of the lipid bilayer in tau aggregation. <i>Biophysical Journal</i> , 2010 , 98, 2722-30	2.9	78
8	Effects of curvature and composition on β synuclein binding to lipid vesicles. <i>Biophysical Journal</i> , 2010 , 99, 2279-88	2.9	238
7	Single molecule characterization of β synuclein in aggregation-prone states. <i>Biophysical Journal</i> , 2010 , 99, 3048-55	2.9	81
6	Alpha-synuclein binds large unilamellar vesicles as an extended helix. <i>Biochemistry</i> , 2009 , 48, 2304-6	3.2	172

5	Fluorescence characterization of denatured proteins. <i>Current Opinion in Structural Biology</i> , 2008 , 18, 516-24	8.1	35
4	Quantification of alpha-synuclein binding to lipid vesicles using fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2006 , 90, 4692-700	2.9	207
3	Two-state folding observed in individual protein molecules. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14686-7	16.4	153
2	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
1	Tau avoids the GTP cap at growing microtubule plus ends		1