

Elizabeth Rhoades

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3229092/publications.pdf>

Version: 2024-02-01

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	Î±-Synuclein arginylation in the human brain. <i>Translational Neurodegeneration</i> , 2022, 11, 20.	8.0	8
2	Cysteine-Based Mimic of Arginylation Reproduces Neuroprotective Effects of the Authentic Post-Translational Modification on Î±-Synuclein. <i>Journal of the American Chemical Society</i> , 2022, 144, 7911-7918.	13.7	4
3	Chemoenzymatic Semi-synthesis Enables Efficient Production of Isotopically Labeled Î±-Synuclein with Site-specific Tyrosine Phosphorylation. <i>ChemBioChem</i> , 2021, 22, 1440-1447.	2.6	10
4	Potent inhibitors of toxic alpha-synuclein identified via cellular time-resolved FRET biosensors. <i>Npj Parkinson's Disease</i> , 2021, 7, 52.	5.3	22
5	Quantification of protein delivery in live cells using fluorescence correlation spectroscopy. <i>Methods in Enzymology</i> , 2020, 641, 477-505.	1.0	11
6	Effects of Glutamate Arginylation on Î±-Synuclein: Studying an Unusual Post-Translational Modification through Semisynthesis. <i>Journal of the American Chemical Society</i> , 2020, 142, 21786-21798.	13.7	16
7	Tau Avoids the GTP Cap at Growing Microtubule Plus-Ends. <i>IScience</i> , 2020, 23, 101782.	4.1	12
8	Single-Molecule FRET of Intrinsically Disordered Proteins. <i>Annual Review of Physical Chemistry</i> , 2020, 71, 391-414.	10.8	48
9	Chemoenzymatic Semisynthesis of Phosphorylated Î±-Synuclein Enables Identification of a Bidirectional Effect on Fibril Formation. <i>ACS Chemical Biology</i> , 2020, 15, 640-645.	3.4	25
10	Structural Characterization of Tau in Fuzzy Tau:Tubulin Complexes. <i>Structure</i> , 2020, 28, 378-384.e4.	3.3	8
11	Measuring Interactions Between Tau and Aggregation Inducers with Single-Molecule Förster Resonance Energy Transfer. <i>Methods in Molecular Biology</i> , 2020, 2141, 755-775.	0.9	2
12	Proteins: Disorder, Folding, and Crowding. <i>Biophysical Journal</i> , 2019, 117, 3-4.	0.5	1
13	Targeting the ensemble of heterogeneous tau oligomers in cells: A novel small molecule screening platform for tauopathies. <i>Alzheimer's and Dementia</i> , 2019, 15, 1489-1502.	0.8	53
14	Polyphosphate Initiates Tau Aggregation through Intra- and Intermolecular Scaffolding. <i>Biophysical Journal</i> , 2019, 117, 717-728.	0.5	30
15	Identification of N-linked glycans as specific mediators of neuronal uptake of acetylated Î±-Synuclein. <i>PLoS Biology</i> , 2019, 17, e3000318.	5.6	42
16	Cyclized NDGA modifies dynamic Î±-synuclein monomers preventing aggregation and toxicity. <i>Scientific Reports</i> , 2019, 9, 2937.	3.3	31
17	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.	3.4	33
18	Conformational switching within dynamic oligomers underpins toxic gain-of-function by diabetes-associated amyloid. <i>Nature Communications</i> , 2018, 9, 1312.	12.8	50

#	ARTICLE	IF	CITATIONS
19	IDPs in macromolecular complexes: the roles of multivalent interactions in diverse assemblies. <i>Current Opinion in Structural Biology</i> , 2018, 49, 36-43.	5.7	98
20	Using a FRET Library with Multiple Probe Pairs To Drive Monte Carlo Simulations of τ -Synuclein. <i>Biophysical Journal</i> , 2018, 114, 53-64.	0.5	26
21	Unique arginine array improves cytosolic localization of hydrocarbon-stapled peptides. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 1197-1202.	3.0	18
22	Preface. <i>Methods in Enzymology</i> , 2018, 611, xix-xx.	1.0	1
23	Targeting the Intrinsically Disordered Proteome Using Small-Molecule Ligands. <i>Methods in Enzymology</i> , 2018, 611, 703-734.	1.0	14
24	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.	7.1	43
25	τ -Synuclein's Uniquely Long Amphipathic Helix Enhances its Membrane Binding and Remodeling Capacity. <i>Journal of Membrane Biology</i> , 2017, 250, 183-193.	2.1	27
26	Heterogeneous Tau-Tubulin Complexes Accelerate Microtubule Polymerization. <i>Biophysical Journal</i> , 2017, 112, 2567-2574.	0.5	29
27	Insights into tau function and dysfunction through single-molecule fluorescence. <i>Methods in Cell Biology</i> , 2017, 141, 27-44.	1.1	12
28	Order-Disorder Transitions in the Cardiac Troponin Complex. <i>Journal of Molecular Biology</i> , 2016, 428, 2965-2977.	4.2	22
29	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.	7.1	66
30	Foldamer-mediated manipulation of a pre-amyloid toxin. <i>Nature Communications</i> , 2016, 7, 11412.	12.8	56
31	Two Na ⁺ Sites Control Conformational Change in a Neurotransmitter Transporter Homolog. <i>Journal of Biological Chemistry</i> , 2016, 291, 1456-1471.	3.4	65
32	Membrane remodeling and mechanics: Experiments and simulations of τ -Synuclein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1594-1609.	2.6	43
33	Structure-Based Small Molecule Modulation of a Pre-Amyloid State: Pharmacological Enhancement of IAPP Membrane-Binding and Toxicity. <i>Biochemistry</i> , 2015, 54, 3555-3564.	2.5	11
34	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.	13.7	99
35	Folding upon phosphorylation: translational regulation by a disorder-to-order transition. <i>Trends in Biochemical Sciences</i> , 2015, 40, 243-244.	7.5	10
36	Cross-Scale Integrin Regulation Organizes ECM and Tissue Topology. <i>Developmental Cell</i> , 2015, 34, 33-44.	7.0	73

#	ARTICLE	IF	CITATIONS
37	Tau Binds to Multiple Tubulin Dimers with Helical Structure. <i>Journal of the American Chemical Society</i> , 2015, 137, 9218-9221.	13.7	51
38	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, 369-378.	6.0	55
39	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, 11962-11969.	13.7	54
40	Physico-chemical requirements and kinetics of membrane fusion of flavivirus-like particles. <i>Journal of General Virology</i> , 2015, 96, 1702-1711.	2.9	26
41	Determining a Functional Mechanism for a Dysfunctional Protein. <i>FASEB Journal</i> , 2015, 29, 226.2.	0.5	0
42	Investigation of Intramolecular Dynamics and Conformations of β ¹ -, β ² - and β ³ -Synuclein. <i>PLoS ONE</i> , 2014, 9, e86983.	2.5	14
43	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, 6311-6316.	7.1	67
44	The Conformational Ensembles of β -Synuclein and Tau: Combining Single-Molecule FRET and Simulations. <i>Biophysical Journal</i> , 2012, 103, 1940-1949.	0.5	119
45	Identification of an Aggregation-Prone Structure of Tau. <i>Journal of the American Chemical Society</i> , 2012, 134, 16607-16613.	13.7	127
46	N-terminal acetylation is critical for forming β -helical oligomer of β -synuclein. <i>Protein Science</i> , 2012, 21, 601-605.	7.6	128
47	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, 7152-7158.	13.7	124
48	A Membrane-Bound Antiparallel Dimer of Rat Islet Amyloid Polypeptide. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10859-10862.	13.8	37
49	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, 9460-9465.	7.1	127
50	Single-Molecule Fluorescence Spectroscopy Using Phospholipid Bilayer Nanodiscs. <i>Methods in Enzymology</i> , 2010, 472, 89-117.	1.0	49
51	The Role of the Lipid Bilayer in Tau Aggregation. <i>Biophysical Journal</i> , 2010, 98, 2722-2730.	0.5	108
52	Effects of Curvature and Composition on β -Synuclein Binding to Lipid Vesicles. <i>Biophysical Journal</i> , 2010, 99, 2279-2288.	0.5	306
53	Single Molecule Characterization of β -Synuclein in Aggregation-Prone States. <i>Biophysical Journal</i> , 2010, 99, 3048-3055.	0.5	104
54	β -Synuclein Binds Large Unilamellar Vesicles as an Extended Helix. <i>Biochemistry</i> , 2009, 48, 2304-2306.	2.5	199

#	ARTICLE	IF	CITATIONS
55	Fluorescence characterization of denatured proteins. <i>Current Opinion in Structural Biology</i> , 2008, 18, 516-524.	5.7	44
56	Quantification of $\hat{\text{I}}\pm$ -Synuclein Binding to Lipid Vesicles Using Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2006, 90, 4692-4700.	0.5	235
57	Two-State Folding Observed in Individual Protein Molecules. <i>Journal of the American Chemical Society</i> , 2004, 126, 14686-14687.	13.7	169
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, 3197-3202.	7.1	343