

# David Eliezer

## List of Publications by Citations

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95  
papers

7,535  
citations

45  
h-index

86  
g-index

108  
ext. papers

8,633  
ext. citations

6.8  
avg, IF

6.2  
L-index

#	Paper	IF	Citations
95	Conformational properties of alpha-synuclein in its free and lipid-associated states. <i>Journal of Molecular Biology</i> , <b>2001</b> , 307, 1061-73	6.5	838
94	βSynuclein in central nervous system and from erythrocytes, mammalian cells, and Escherichia coli exists predominantly as disordered monomer. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 15345-64	5.4	375
93	A structural and functional role for 11-mer repeats in alpha-synuclein and other exchangeable lipid binding proteins. <i>Journal of Molecular Biology</i> , <b>2003</b> , 329, 763-78	6.5	345
92	Structural and dynamic characterization of partially folded states of apomyoglobin and implications for protein folding. <i>Nature Structural Biology</i> , <b>1998</b> , 5, 148-55		318
91	Biophysical characterization of intrinsically disordered proteins. <i>Current Opinion in Structural Biology</i> , <b>2009</b> , 19, 23-30	8.1	270
90	Biophysics of Parkinson's disease: structure and aggregation of alpha-synuclein. <i>Current Protein and Peptide Science</i> , <b>2009</b> , 10, 483-99	2.8	250
89	Phosphorylation at Ser-129 but not the phosphomimics S129E/D inhibits the fibrillation of alpha-synuclein. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 16895-905	5.4	240
88	Membrane-bound alpha-synuclein forms an extended helix: long-distance pulsed ESR measurements using vesicles, bicelles, and rodlike micelles. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12856-7	16.4	222
87	Phosphorylation at S87 is enhanced in synucleinopathies, inhibits alpha-synuclein oligomerization, and influences synuclein-membrane interactions. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 3184-98	6.6	207
86	Quantification of alpha-synuclein binding to lipid vesicles using fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , <b>2006</b> , 90, 4692-700	2.9	207
85	Residual structure and dynamics in Parkinson's disease-associated mutants of alpha-synuclein. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 45996-6003	5.4	207
84	NMR structural and dynamic characterization of the acid-unfolded state of apomyoglobin provides insights into the early events in protein folding. <i>Biochemistry</i> , <b>2001</b> , 40, 3561-71	3.2	203
83	The impact of the E46K mutation on the properties of alpha-synuclein in its monomeric and oligomeric states. <i>Biochemistry</i> , <b>2007</b> , 46, 7107-18	3.2	178
82	The novel Parkinson's disease linked mutation G51D attenuates in vitro aggregation and membrane binding of βsynuclein, and enhances its secretion and nuclear localization in cells. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 4491-509	5.6	153
81	Identification of a helical intermediate in trifluoroethanol-induced alpha-synuclein aggregation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 18850-5	11.5	140
80	Alpha-synuclein function and dysfunction on cellular membranes. <i>Experimental Neurobiology</i> , <b>2014</b> , 23, 292-313	4	138
79	Folding and misfolding of alpha-synuclein on membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 1013-8	3.8	132

78	c-Abl phosphorylates $\beta$ synuclein and regulates its degradation: implication for $\beta$ synuclein clearance and contribution to the pathogenesis of Parkinson's disease. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 2858-79	5.6	126
77	The H50Q mutation enhances $\beta$ synuclein aggregation, secretion, and toxicity. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 21856-76	5.4	126
76	Helix periodicity, topology, and dynamics of membrane-associated alpha-synuclein. <i>Protein Science</i> , <b>2005</b> , 14, 862-72	6.3	126
75	Residual structure, backbone dynamics, and interactions within the synuclein family. <i>Journal of Molecular Biology</i> , <b>2007</b> , 372, 689-707	6.5	125
74	Effects of Parkinson's disease-linked mutations on the structure of lipid-associated alpha-synuclein. <i>Biochemistry</i> , <b>2004</b> , 43, 4810-8	3.2	124
73	Characterization of semisynthetic and naturally N-acetylated $\beta$ synuclein in vitro and in intact cells: implications for aggregation and cellular properties of $\beta$ synuclein. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 28243-62	5.4	121
72	N-terminal acetylation stabilizes N-terminal helicity in lipid- and micelle-bound $\beta$ synuclein and increases its affinity for physiological membranes. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 3652-65	5.4	116
71	The lipid-binding domain of wild type and mutant alpha-synuclein: compactness and interconversion between the broken and extended helix forms. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 28261-74	5.4	104
70	Residual structure in the repeat domain of tau: echoes of microtubule binding and paired helical filament formation. <i>Biochemistry</i> , <b>2005</b> , 44, 1026-36	3.2	94
69	NMR mapping of copper binding sites in alpha-synuclein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2006</b> , 1764, 5-12	4	94
68	STARD4 abundance regulates sterol transport and sensing. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 4004-15	3.5	92
67	Exposure to bacterial endotoxin generates a distinct strain of $\beta$ synuclein fibril. <i>Scientific Reports</i> , <b>2016</b> , 6, 30891	4.9	85
66	Inter-helix distances in lysophospholipid micelle-bound alpha-synuclein from pulsed ESR measurements. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 10004-5	16.4	83
65	E46K Parkinson's-linked mutation enhances C-terminal-to-N-terminal contacts in alpha-synuclein. <i>Journal of Molecular Biology</i> , <b>2009</b> , 388, 1022-32	6.5	81
64	Structure activity relationship of phenolic acid inhibitors of $\beta$ synuclein fibril formation and toxicity. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 197	5.3	78
63	Oligomerization and Membrane-binding Properties of Covalent Adducts Formed by the Interaction of $\beta$ Synuclein with the Toxic Dopamine Metabolite 3,4-Dihydroxyphenylacetaldehyde (DOPAL). <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 27660-79	5.4	77
62	Discovery and characterization of stable and toxic Tau/phospholipid oligomeric complexes. <i>Nature Communications</i> , <b>2017</b> , 8, 1678	17.4	77
61	Elucidating the role of C-terminal post-translational modifications using protein semisynthesis strategies: $\beta$ synuclein phosphorylation at tyrosine 125. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 5196-210	16.4	75

60	Charge neutralization and collapse of the C-terminal tail of alpha-synuclein at low pH. <i>Protein Science</i> , <b>2009</b> , 18, 1531-40	6.3	75
59	Ginsenoside Rb1 inhibits fibrillation and toxicity of alpha-synuclein and disaggregates preformed fibrils. <i>Neurobiology of Disease</i> , <b>2015</b> , 74, 89-101	7.5	67
58	Tau binds to lipid membrane surfaces via short amphipathic helices located in its microtubule-binding repeats. <i>Biophysical Journal</i> , <b>2014</b> , 107, 1441-52	2.9	64
57	Synaptic vesicles position complexin to block spontaneous fusion. <i>Neuron</i> , <b>2013</b> , 77, 323-34	13.9	59
56	Structural effects of Parkinson's disease linked DJ-1 mutations. <i>Protein Science</i> , <b>2008</b> , 17, 855-68	6.3	57
55	Characterizing residual structure in disordered protein States using nuclear magnetic resonance. <i>Methods in Molecular Biology</i> , <b>2007</b> , 350, 49-67	1.4	55
54	Binding of the three-repeat domain of tau to phospholipid membranes induces an aggregated-like state of the protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 2302-13	3.8	49
53	Folding of the repeat domain of tau upon binding to lipid surfaces. <i>Journal of Molecular Biology</i> , <b>2006</b> , 362, 312-26	6.5	49
52	Glycan Determinants of Heparin-Tau Interaction. <i>Biophysical Journal</i> , <b>2017</b> , 112, 921-932	2.9	47
51	Populating the equilibrium molten globule state of apomyoglobin under conditions suitable for structural characterization by NMR. <i>FEBS Letters</i> , <b>1997</b> , 417, 92-6	3.8	47
50	Membrane curvature sensing by the C-terminal domain of complexin. <i>Nature Communications</i> , <b>2014</b> , 5, 4955	17.4	45
49	Secondary structure and dynamics of micelle bound beta- and gamma-synuclein. <i>Protein Science</i> , <b>2006</b> , 15, 1162-74	6.3	45
48	Parkinson's Disease and Melanoma: Co-Occurrence and Mechanisms. <i>Journal of Parkinsons Disease</i> , <b>2018</b> , 8, 385-398	5.3	40
47	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1818-1827	16.4	40
46	STARD4 Membrane Interactions and Sterol Binding. <i>Biochemistry</i> , <b>2015</b> , 54, 4623-36	3.2	39
45	Semisynthetic and in Vitro Phosphorylation of Alpha-Synuclein at Y39 Promotes Functional Partly Helical Membrane-Bound States Resembling Those Induced by PD Mutations. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 2428-37	4.9	39
44	Structural transitions in tau k18 on micelle binding suggest a hierarchy in the efficacy of individual microtubule-binding repeats in filament nucleation. <i>Protein Science</i> , <b>2013</b> , 22, 1037-48	6.3	38
43	Tau induces PSD95-neuronal NOS uncoupling and neurovascular dysfunction independent of neurodegeneration. <i>Nature Neuroscience</i> , <b>2020</b> , 23, 1079-1089	25.5	35

42	Intrinsically disordered proteins in synaptic vesicle trafficking and release. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 3325-3342	5.4	34
41	Structural basis of sterol binding and transport by a yeast StArkin domain. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 5522-5531	5.4	31
40	Assigning backbone NMR resonances for full length tau isoforms: efficient compromise between manual assignments and reduced dimensionality. <i>PLoS ONE</i> , <b>2012</b> , 7, e34679	3.7	30
39	Amyloid ion channels: a porous argument or a thin excuse?. <i>Journal of General Physiology</i> , <b>2006</b> , 128, 631-3	3.4	25
38	The accessory helix of complexin functions by stabilizing central helix secondary structure. <i>ELife</i> , <b>2014</b> , 3,	8.9	24
37	Membrane interactions of intrinsically disordered proteins: The example of alpha-synuclein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2019</b> , 1867, 879-889	4	23
36	Distance information for disordered proteins from NMR and ESR measurements using paramagnetic spin labels. <i>Methods in Molecular Biology</i> , <b>2012</b> , 895, 127-38	1.4	16
35	Phosphorylation of the overlooked tyrosine 310 regulates the structure, aggregation, and microtubule- and lipid-binding properties of Tau. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7905-7922	5.4	15
34	Conformational heterogeneity in closed and open states of the KcsA potassium channel in lipid bicelles. <i>Journal of General Physiology</i> , <b>2016</b> , 148, 119-32	3.4	15
33	Role of Parkinson's Disease-Linked Mutations and N-Terminal Acetylation on the Oligomerization of $\beta$ Synuclein Induced by 3,4-Dihydroxyphenylacetaldehyde. <i>ACS Chemical Neuroscience</i> , <b>2019</b> , 10, 690-703	5.7	15
32	Use of paramagnetic F NMR to monitor domain movement in a glutamate transporter homolog. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 1006-1012	11.7	14
31	The mysterious C-terminal tail of alpha-synuclein: nanobody's guess. <i>Journal of Molecular Biology</i> , <b>2013</b> , 425, 2393-6	6.5	14
30	Evolutionary Divergence of the C-terminal Domain of Complexin Accounts for Functional Disparities between Vertebrate and Invertebrate Complexins. <i>Frontiers in Molecular Neuroscience</i> , <b>2017</b> , 10, 146	6.1	13
29	Inhibition of alpha-synuclein seeded fibril formation and toxicity by herbal medicinal extracts. <i>BMC Complementary Medicine and Therapies</i> , <b>2020</b> , 20, 73	2.9	12
28	Unique Structural Features of Membrane-Bound C-Terminal Domain Motifs Modulate Complexin Inhibitory Function. <i>Frontiers in Molecular Neuroscience</i> , <b>2017</b> , 10, 154	6.1	12
27	Regulation of exocytosis and mitochondrial relocalization by Alpha-synuclein in a mammalian cell model. <i>Npj Parkinsons Disease</i> , <b>2019</b> , 5, 12	9.7	11
26	Protein Folding and Aggregation in in vitro Models of Parkinson's Disease <b>2008</b> , 575-595		11
25	A Protofilament-Protofilament Interface in the Structure of Mouse $\beta$ Synuclein Fibrils. <i>Biophysical Journal</i> , <b>2018</b> , 114, 2811-2819	2.9	10

24	Structural characterization of two alternate conformations in a calbindin D <sub>9k</sub> -based molecular switch. <i>Biochemistry</i> , <b>2011</b> , 50, 5583-9	3.2	9
23	Phosphorylation regulates the secondary structure and function of dentin phosphoprotein peptides. <i>Bone</i> , <b>2017</b> , 95, 65-75	4.7	8
22	Exchange of water for sterol underlies sterol egress from a StARkin domain. <i>ELife</i> , <b>2019</b> , 8,	8.9	8
21	Structure and dynamics of the extended-helix state of alpha-synuclein: Intrinsic lability of the linker region. <i>Protein Science</i> , <b>2018</b> , 27, 1314-1324	6.3	7
20	Exploring the role of methionine residues on the oligomerization and neurotoxic properties of DOPAL-modified $\beta$ -synuclein. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 505, 295-301	3.4	7
19	Fisetin inhibits tau aggregation by interacting with the protein and preventing the formation of $\beta$ -strands. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 178, 381-393	7.9	6
18	Chemoenzymatic Semi-synthesis Enables Efficient Production of Isotopically Labeled $\beta$ -Synuclein with Site-Specific Tyrosine Phosphorylation. <i>ChemBioChem</i> , <b>2021</b> , 22, 1440-1447	3.8	6
17	$^1\text{H}$ , $^{13}\text{C}$ , and $^{15}\text{N}$ backbone resonance assignments of the L124D mutant of StAR-related lipid transfer domain protein 4 (StARD4). <i>Biomolecular NMR Assignments</i> , <b>2013</b> , 7, 245-8	0.7	3
16	Biochemistry. Visualizing amyloid assembly. <i>Science</i> , <b>2012</b> , 336, 308-9	33.3	3
15	Altered succinylation of mitochondrial proteins, APP and tau in Alzheimer's disease.. <i>Nature Communications</i> , <b>2022</b> , 13, 159	17.4	3
14	Interactions of IDPs with Membranes Using Dark-State Exchange NMR Spectroscopy. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2141, 585-608	1.4	3
13	Probing Structural Changes in Alpha-Synuclein by Nuclear Magnetic Resonance Spectroscopy. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1948, 157-181	1.4	2
12	Synuclein Structure and Function in Parkinson's Disease. <i>Focus on Structural Biology</i> , <b>2009</b> , 159-174		2
11	Spectroscopic Characterization of Structure-Function Relationships in the Intrinsically Disordered Protein Complexin. <i>Methods in Enzymology</i> , <b>2018</b> , 611, 227-286	1.7	2
10	BETA- AND GAMMA-SYNUCLEINS MODULATE SYNAPTIC VESICLE-BINDING OF ALPHA-SYNUCLEIN		1
9	Post-translational modifications within tau paired helical filament nucleating motifs perturb microtubule interactions and oligomer formation. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 101442	5.4	1
8	Proteins acting out of (dis)order. <i>ELife</i> , <b>2017</b> , 6,	8.9	1
7	Regulation of Exocytosis and Mitochondrial Relocalization by Alpha-Synuclein in a Mammalian Cell Model		1

6	Probing IDP Interactions with Membranes by Fluorescence Spectroscopy. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2141, 555-567	1.4	1
5	Homogalacturonan from squash: Characterization and tau-binding pattern of a sulfated derivative.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 285, 119250	10.3	1
4	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1834-1843	3.6	0
3	Synaptic vesicle binding of $\beta$ -synuclein is modulated by $\beta$ and $\gamma$ -synucleins.. <i>Cell Reports</i> , <b>2022</b> , 39, 110675	10.6	0
2	Functional Interactions of Disease-Linked Disordered Proteins: Alpha-Synuclein, Tau and Complexin. <i>FASEB Journal</i> , <b>2015</b> , 29, 226.1	0.9	
1	Intrinsically Disordered Proteins <b>2022</b> , 1-7		