

David Eliezer

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3023409/david-eliezer-publications-by-year.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Altered succinylation of mitochondrial proteins, APP and tau in Alzheimer's disease.. <i>Nature Communications</i> , 2022 , 13, 159	17.4	3
94	Homogalacturonan from squash: Characterization and tau-binding pattern of a sulfated derivative.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119250	10.3	1
93	Synaptic vesicle binding of β synuclein is modulated by β and γ synucleins.. <i>Cell Reports</i> , 2022 , 39, 110675	10.6	0
92	Intrinsically Disordered Proteins 2022 , 1-7		
91	Post-translational modifications within tau paired helical filament nucleating motifs perturb microtubule interactions and oligomer formation. <i>Journal of Biological Chemistry</i> , 2021 , 101442	5.4	1
90	Fisetin inhibits tau aggregation by interacting with the protein and preventing the formation of β strands. <i>International Journal of Biological Macromolecules</i> , 2021 , 178, 381-393	7.9	6
89	Chemoenzymatic Semi-synthesis Enables Efficient Production of Isotopically Labeled β Synuclein with Site-Specific Tyrosine Phosphorylation. <i>ChemBioChem</i> , 2021 , 22, 1440-1447	3.8	6
88	Use of paramagnetic F NMR to monitor domain movement in a glutamate transporter homolog. <i>Nature Chemical Biology</i> , 2020 , 16, 1006-1012	11.7	14
87	Inhibition of alpha-synuclein seeded fibril formation and toxicity by herbal medicinal extracts. <i>BMC Complementary Medicine and Therapies</i> , 2020 , 20, 73	2.9	12
86	Phosphorylation of the overlooked tyrosine 310 regulates the structure, aggregation, and microtubule- and lipid-binding properties of Tau. <i>Journal of Biological Chemistry</i> , 2020 , 295, 7905-7922	5.4	15
85	Probing IDP Interactions with Membranes by Fluorescence Spectroscopy. <i>Methods in Molecular Biology</i> , 2020 , 2141, 555-567	1.4	1
84	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie</i> , 2020 , 132, 1834-1843	3.6	0
83	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1818-1827	16.4	40
82	Tau induces PSD95-neuronal NOS uncoupling and neurovascular dysfunction independent of neurodegeneration. <i>Nature Neuroscience</i> , 2020 , 23, 1079-1089	25.5	35
81	Interactions of IDPs with Membranes Using Dark-State Exchange NMR Spectroscopy. <i>Methods in Molecular Biology</i> , 2020 , 2141, 585-608	1.4	3
80	Intrinsically disordered proteins in synaptic vesicle trafficking and release. <i>Journal of Biological Chemistry</i> , 2019 , 294, 3325-3342	5.4	34
79	Membrane interactions of intrinsically disordered proteins: The example of alpha-synuclein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019 , 1867, 879-889	4	23

78	Probing Structural Changes in Alpha-Synuclein by Nuclear Magnetic Resonance Spectroscopy. <i>Methods in Molecular Biology</i> , 2019 , 1948, 157-181	1.4	2
77	Regulation of exocytosis and mitochondrial relocalization by Alpha-synuclein in a mammalian cell model. <i>Npj Parkinsons Disease</i> , 2019 , 5, 12	9.7	11
76	Exchange of water for sterol underlies sterol egress from a StARkin domain. <i>ELife</i> , 2019 , 8,	8.9	8
75	Role of Parkinson's Disease-Linked Mutations and N-Terminal Acetylation on the Oligomerization of β Synuclein Induced by 3,4-Dihydroxyphenylacetaldehyde. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 690-703	5.7	15
74	Structural basis of sterol binding and transport by a yeast StARkin domain. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5522-5531	5.4	31
73	Structure and dynamics of the extended-helix state of alpha-synuclein: Intrinsic lability of the linker region. <i>Protein Science</i> , 2018 , 27, 1314-1324	6.3	7
72	Parkinson's Disease and Melanoma: Co-Occurrence and Mechanisms. <i>Journal of Parkinsons Disease</i> , 2018 , 8, 385-398	5.3	40
71	A Protofilament-Protofilament Interface in the Structure of Mouse β Synuclein Fibrils. <i>Biophysical Journal</i> , 2018 , 114, 2811-2819	2.9	10
70	Spectroscopic Characterization of Structure-Function Relationships in the Intrinsically Disordered Protein Complexin. <i>Methods in Enzymology</i> , 2018 , 611, 227-286	1.7	2
69	Exploring the role of methionine residues on the oligomerization and neurotoxic properties of DOPAL-modified β Synuclein. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 505, 295-301	3.4	7
68	Glycan Determinants of Heparin-Tau Interaction. <i>Biophysical Journal</i> , 2017 , 112, 921-932	2.9	47
67	Discovery and characterization of stable and toxic Tau/phospholipid oligomeric complexes. <i>Nature Communications</i> , 2017 , 8, 1678	17.4	77
66	Phosphorylation regulates the secondary structure and function of dentin phosphoprotein peptides. <i>Bone</i> , 2017 , 95, 65-75	4.7	8
65	Evolutionary Divergence of the C-terminal Domain of Complexin Accounts for Functional Disparities between Vertebrate and Invertebrate Complexins. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 146	6.1	13
64	Unique Structural Features of Membrane-Bound C-Terminal Domain Motifs Modulate Complexin Inhibitory Function. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 154	6.1	12
63	Proteins acting out of (dis)order. <i>ELife</i> , 2017 , 6,	8.9	1
62	Conformational heterogeneity in closed and open states of the KcsA potassium channel in lipid bicelles. <i>Journal of General Physiology</i> , 2016 , 148, 119-32	3.4	15
61	Exposure to bacterial endotoxin generates a distinct strain of β Synuclein fibril. <i>Scientific Reports</i> , 2016 , 6, 30891	4.9	85

60	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> , 2016 , 11, 2428-37	4.9	39
59	STARD4 Membrane Interactions and Sterol Binding. <i>Biochemistry</i> , 2015 , 54, 4623-36	3.2	39
58	Oligomerization and Membrane-binding Properties of Covalent Adducts Formed by the Interaction of β Synuclein with the Toxic Dopamine Metabolite 3,4-Dihydroxyphenylacetaldehyde (DOPAL). <i>Journal of Biological Chemistry</i> , 2015 , 290, 27660-79	5.4	77
57	Ginsenoside Rb1 inhibits fibrillation and toxicity of alpha-synuclein and disaggregates preformed fibrils. <i>Neurobiology of Disease</i> , 2015 , 74, 89-101	7.5	67
56	Functional Interactions of Disease-Linked Disordered Proteins: Alpha-Synuclein, Tau and Complexin. <i>FASEB Journal</i> , 2015 , 29, 226.1	0.9	
55	c-Abl phosphorylates β Synuclein and regulates its degradation: implication for β Synuclein clearance and contribution to the pathogenesis of Parkinson's disease. <i>Human Molecular Genetics</i> , 2014 , 23, 2858-79	5.6	126
54	N-terminal acetylation stabilizes N-terminal helicity in lipid- and micelle-bound β Synuclein and increases its affinity for physiological membranes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 3652-65	5.4	116
53	The novel Parkinson's disease linked mutation G51D attenuates in vitro aggregation and membrane binding of β Synuclein, and enhances its secretion and nuclear localization in cells. <i>Human Molecular Genetics</i> , 2014 , 23, 4491-509	5.6	153
52	The H50Q mutation enhances β Synuclein aggregation, secretion, and toxicity. <i>Journal of Biological Chemistry</i> , 2014 , 289, 21856-76	5.4	126
51	Tau binds to lipid membrane surfaces via short amphipathic helices located in its microtubule-binding repeats. <i>Biophysical Journal</i> , 2014 , 107, 1441-52	2.9	64
50	Alpha-synuclein function and dysfunction on cellular membranes. <i>Experimental Neurobiology</i> , 2014 , 23, 292-313	4	138
49	Membrane curvature sensing by the C-terminal domain of complexin. <i>Nature Communications</i> , 2014 , 5, 4955	17.4	45
48	Structure activity relationship of phenolic acid inhibitors of β Synuclein fibril formation and toxicity. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 197	5.3	78
47	The accessory helix of complexin functions by stabilizing central helix secondary structure. <i>ELife</i> , 2014 , 3,	8.9	24
46	Synaptic vesicles position complexin to block spontaneous fusion. <i>Neuron</i> , 2013 , 77, 323-34	13.9	59
45	The mysterious C-terminal tail of alpha-synuclein: nanobody's guess. <i>Journal of Molecular Biology</i> , 2013 , 425, 2393-6	6.5	14
44	^1H , ^{13}C , and ^{15}N backbone resonance assignments of the L124D mutant of StAR-related lipid transfer domain protein 4 (StARD4). <i>Biomolecular NMR Assignments</i> , 2013 , 7, 245-8	0.7	3
43	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> , 2013 , 22, 1037-48	6.3	38

42	Elucidating the role of C-terminal post-translational modifications using protein semisynthesis strategies: β -synuclein phosphorylation at tyrosine 125. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5196-210	16.4	75
41	Folding and misfolding of alpha-synuclein on membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 1013-8	3.8	132
40	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> , 2012 , 1818, 2302-13	3.8	49
39	Distance information for disordered proteins from NMR and ESR measurements using paramagnetic spin labels. <i>Methods in Molecular Biology</i> , 2012 , 895, 127-38	1.4	16
38	β -Synuclein in central nervous system and from erythrocytes, mammalian cells, and Escherichia coli exists predominantly as disordered monomer. <i>Journal of Biological Chemistry</i> , 2012 , 287, 15345-64	5.4	375
37	Biochemistry. Visualizing amyloid assembly. <i>Science</i> , 2012 , 336, 308-9	33.3	3
36	Characterization of semisynthetic and naturally N-acetylated β -synuclein in vitro and in intact cells: implications for aggregation and cellular properties of β -synuclein. <i>Journal of Biological Chemistry</i> , 2012 , 287, 28243-62	5.4	121
35	Assigning backbone NMR resonances for full length tau isoforms: efficient compromise between manual assignments and reduced dimensionality. <i>PLoS ONE</i> , 2012 , 7, e34679	3.7	30
34	Structural characterization of two alternate conformations in a calbindin D _{9k} -based molecular switch. <i>Biochemistry</i> , 2011 , 50, 5583-9	3.2	9
33	STARD4 abundance regulates sterol transport and sensing. <i>Molecular Biology of the Cell</i> , 2011 , 22, 4004-15	3.5	92
32	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> , 2010 , 285, 28261-74	5.4	104
31	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> , 2010 , 107, 18850-5	11.5	140
30	Phosphorylation at S87 is enhanced in synucleinopathies, inhibits alpha-synuclein oligomerization, and influences synuclein-membrane interactions. <i>Journal of Neuroscience</i> , 2010 , 30, 3184-98	6.6	207
29	Biophysical characterization of intrinsically disordered proteins. <i>Current Opinion in Structural Biology</i> , 2009 , 19, 23-30	8.1	270
28	Charge neutralization and collapse of the C-terminal tail of alpha-synuclein at low pH. <i>Protein Science</i> , 2009 , 18, 1531-40	6.3	75
27	E46K Parkinson's-linked mutation enhances C-terminal-to-N-terminal contacts in alpha-synuclein. <i>Journal of Molecular Biology</i> , 2009 , 388, 1022-32	6.5	81
26	Synuclein Structure and Function in Parkinson's Disease. <i>Focus on Structural Biology</i> , 2009 , 159-174		2
25	Biophysics of Parkinson's disease: structure and aggregation of alpha-synuclein. <i>Current Protein and Peptide Science</i> , 2009 , 10, 483-99	2.8	250

24	Protein Folding and Aggregation in in vitro Models of Parkinson's Disease 2008 , 575-595		11
23	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> , 2008 , 130, 12856-7	16.4	222
22	Phosphorylation at Ser-129 but not the phosphomimics S129E/D inhibits the fibrillation of alpha-synuclein. <i>Journal of Biological Chemistry</i> , 2008 , 283, 16895-905	5.4	240
21	Structural effects of Parkinson's disease linked DJ-1 mutations. <i>Protein Science</i> , 2008 , 17, 855-68	6.3	57
20	The impact of the E46K mutation on the properties of alpha-synuclein in its monomeric and oligomeric states. <i>Biochemistry</i> , 2007 , 46, 7107-18	3.2	178
19	Residual structure, backbone dynamics, and interactions within the synuclein family. <i>Journal of Molecular Biology</i> , 2007 , 372, 689-707	6.5	125
18	Characterizing residual structure in disordered protein States using nuclear magnetic resonance. <i>Methods in Molecular Biology</i> , 2007 , 350, 49-67	1.4	55
17	Amyloid ion channels: a porous argument or a thin excuse?. <i>Journal of General Physiology</i> , 2006 , 128, 631-3	3.4	25
16	Quantification of alpha-synuclein binding to lipid vesicles using fluorescence correlation spectroscopy. <i>Biophysical Journal</i> , 2006 , 90, 4692-700	2.9	207
15	Inter-helix distances in lysophospholipid micelle-bound alpha-synuclein from pulsed ESR measurements. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10004-5	16.4	83
14	Folding of the repeat domain of tau upon binding to lipid surfaces. <i>Journal of Molecular Biology</i> , 2006 , 362, 312-26	6.5	49
13	NMR mapping of copper binding sites in alpha-synuclein. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 5-12	4	94
12	Secondary structure and dynamics of micelle bound beta- and gamma-synuclein. <i>Protein Science</i> , 2006 , 15, 1162-74	6.3	45
11	Residual structure in the repeat domain of tau: echoes of microtubule binding and paired helical filament formation. <i>Biochemistry</i> , 2005 , 44, 1026-36	3.2	94
10	Helix periodicity, topology, and dynamics of membrane-associated alpha-synuclein. <i>Protein Science</i> , 2005 , 14, 862-72	6.3	126
9	Effects of Parkinson's disease-linked mutations on the structure of lipid-associated alpha-synuclein. <i>Biochemistry</i> , 2004 , 43, 4810-8	3.2	124
8	A structural and functional role for 11-mer repeats in alpha-synuclein and other exchangeable lipid binding proteins. <i>Journal of Molecular Biology</i> , 2003 , 329, 763-78	6.5	345
7	Residual structure and dynamics in Parkinson's disease-associated mutants of alpha-synuclein. <i>Journal of Biological Chemistry</i> , 2001 , 276, 45996-6003	5.4	207

6	NMR structural and dynamic characterization of the acid-unfolded state of apomyoglobin provides insights into the early events in protein folding. <i>Biochemistry</i> , 2001 , 40, 3561-71	3.2	203
5	Conformational properties of alpha-synuclein in its free and lipid-associated states. <i>Journal of Molecular Biology</i> , 2001 , 307, 1061-73	6.5	838
4	Structural and dynamic characterization of partially folded states of apomyoglobin and implications for protein folding. <i>Nature Structural Biology</i> , 1998 , 5, 148-55		318
3	Populating the equilibrium molten globule state of apomyoglobin under conditions suitable for structural characterization by NMR. <i>FEBS Letters</i> , 1997 , 417, 92-6	3.8	47
2	BETA- AND GAMMA-SYNUCLEINS MODULATE SYNAPTIC VESICLE-BINDING OF ALPHA-SYNUCLEIN		1
1	Regulation of Exocytosis and Mitochondrial Relocalization by Alpha-Synuclein in a Mammalian Cell Model		1