

Suren A Tatulian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5100866/publications.pdf>

Version: 2024-02-01

80
papers

3,410
citations

136950

32
h-index

144013

57
g-index

80
all docs

80
docs citations

80
times ranked

3604
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared spectroscopy of proteins and peptides in lipid bilayers. Quarterly Reviews of Biophysics, 1997, 30, 365-429.	5.7	609
2	Structure of a Peptide Adsorbed on Graphene and Graphite. Nano Letters, 2012, 12, 2342-2346.	9.1	134
3	Attenuated Total Reflection Fourier Transform Infrared Spectroscopy: A Method of Choice for Studying Membrane Proteins and Lipids. Biochemistry, 2003, 42, 11898-11907.	2.5	118
4	Effect of the N-terminal glycine on the secondary structure, orientation, and interaction of the influenza hemagglutinin fusion peptide with lipid bilayers. Biophysical Journal, 1996, 70, 2275-2286.	0.5	115
5	Secondary Structure, Orientation, Oligomerization, and Lipid Interactions of the Transmembrane Domain of Influenza Hemagglutinin. Biochemistry, 2000, 39, 496-507.	2.5	115
6	Effect of lipid phase transition on the binding of anions to dimyristoylphosphatidylcholine liposomes. Biochimica Et Biophysica Acta - Biomembranes, 1983, 736, 189-195.	2.6	113
7	Secondary Structure and Orientation of Phospholamban Reconstituted in Supported Bilayers from Polarized Attenuated Total Reflection FTIR Spectroscopy. Biochemistry, 1995, 34, 4448-4456.	2.5	112
8	Toward Understanding Interfacial Activation of Secretory Phospholipase A2 (PLA2): Membrane Surface Properties and Membrane-Induced Structural Changes in the Enzyme Contribute Synergistically to PLA2 Activation. Biophysical Journal, 2001, 80, 789-800.	0.5	109
9	Characterization of two membrane-bound forms of OmpA. Biochemistry, 1995, 34, 1921-1929.	2.5	101
10	Membrane Fluidity Is a Key Modulator of Membrane Binding, Insertion, and Activity of 5-Lipoxygenase. Biophysical Journal, 2005, 88, 4084-4094.	0.5	94
11	Challenges and hopes for Alzheimer's disease. Drug Discovery Today, 2022, 27, 1027-1043.	6.4	87
12	Functional Reconstitution of Recombinant Phospholamban with Rabbit Skeletal Ca ²⁺ -ATPase. Journal of Biological Chemistry, 1995, 270, 9390-9397.	3.4	78
13	Orientation of functional and nonfunctional PTS permease signal sequences in lipid bilayers. A polarized attenuated total reflection infrared study. Biochemistry, 1993, 32, 7720-7726.	2.5	76
14	Structural changes in a secretory phospholipase A2 Induced by membrane binding: a clue to interfacial activation?. Journal of Molecular Biology, 1997, 268, 809-815.	4.2	72
15	Structural Characterization of Membrane Proteins and Peptides by FTIR and ATR-FTIR Spectroscopy. Methods in Molecular Biology, 2013, 974, 177-218.	0.9	71
16	Conformational Instability of the Cholera Toxin A1 Polypeptide. Journal of Molecular Biology, 2007, 374, 1114-1128.	4.2	66
17	C2 Domain-Containing Phosphoprotein CDP138 Regulates GLUT4 Insertion into the Plasma Membrane. Cell Metabolism, 2011, 14, 378-389.	16.2	64
18	Membrane Binding and Pore Formation by a Cytotoxic Fragment of Amyloid β Peptide. Journal of Physical Chemistry B, 2017, 121, 10293-10305.	2.6	55

#	ARTICLE	IF	CITATIONS
19	Uncovering a Calcium-Regulated Membrane-Binding Mechanism for Soybean Lipoxygenase-1. <i>Biochemistry</i> , 1998, 37, 15481-15490.	2.5	53
20	Structural Dynamics of Insulin Receptor and Transmembrane Signaling. <i>Biochemistry</i> , 2015, 54, 5523-5532.	2.5	51
21	Protein-disulfide Isomerase Displaces the Cholera Toxin A1 Subunit from the Holotoxin without Unfolding the A1 Subunit. <i>Journal of Biological Chemistry</i> , 2011, 286, 22090-22100.	3.4	48
22	The N-terminal α -Helix of Pancreatic Phospholipase A2 Determines Productive-mode Orientation of the Enzyme at the Membrane Surface. <i>Journal of Molecular Biology</i> , 2004, 344, 71-89.	4.2	46
23	Modulation of Human 5-Lipoxygenase Activity by Membrane Lipids. <i>Biochemistry</i> , 2004, 43, 14653-14666.	2.5	43
24	Stabilization of the Tertiary Structure of the Cholera Toxin A1 Subunit Inhibits Toxin Dislocation and Cellular Intoxication. <i>Journal of Molecular Biology</i> , 2009, 393, 1083-1096.	4.2	43
25	Structure of amyloid β 25-35 in lipid environment and cholesterol-dependent membrane pore formation. <i>Scientific Reports</i> , 2019, 9, 2689.	3.3	43
26	Structural dynamics of the <i>Streptomyces lividans</i> K ⁺ channel (SKC1): secondary structure characterization from FTIR spectroscopy. <i>FEBS Letters</i> , 1998, 423, 205-212.	2.8	42
27	The Pertussis Toxin S1 Subunit Is a Thermally Unstable Protein Susceptible to Degradation by the 20S Proteasome. <i>Biochemistry</i> , 2006, 45, 13734-13740.	2.5	39
28	Positioning Membrane Proteins by Novel Protein Engineering and Biophysical Approaches. <i>Journal of Molecular Biology</i> , 2005, 351, 939-947.	4.2	38
29	Evidence for the Regulatory Role of the N-terminal Helix of Secretory Phospholipase A2 from Studies on Native and Chimeric Proteins. <i>Journal of Biological Chemistry</i> , 2005, 280, 36773-36783.	3.4	37
30	FTIR Analysis of Proteins and Protein-Membrane Interactions. <i>Methods in Molecular Biology</i> , 2019, 2003, 281-325.	0.9	35
31	The Inhibitory Action of Phospholamban Involves Stabilization of α -Helices within the Ca-ATPase. <i>Biochemistry</i> , 2002, 41, 741-751.	2.5	33
32	Structural Effects of Covalent Inhibition of Phospholipase A2 Suggest Allosteric Coupling between Membrane Binding and Catalytic Sites. <i>Biophysical Journal</i> , 2003, 84, 1773-1783.	0.5	33
33	Isoform-Specific Membrane Insertion of Secretory Phospholipase A2 and Functional Implications. <i>Biochemistry</i> , 2006, 45, 12436-12447.	2.5	33
34	A novel mode of translocation for cytolethal distending toxin. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 489-495.	4.1	33
35	Co- and Post-translocation Roles for HSP90 in Cholera Intoxication. <i>Journal of Biological Chemistry</i> , 2014, 289, 33644-33654.	3.4	33
36	Effects of Lipid Phase Transition and Membrane Surface Charge on the Interfacial Activation of Phospholipase A ₂ . <i>Biochemistry</i> , 2007, 46, 13089-13100.	2.5	31

#	ARTICLE	IF	CITATIONS
37	Contribution of Subdomain Structure to the Thermal Stability of the Cholera Toxin A1 Subunit. <i>Biochemistry</i> , 2010, 49, 8839-8846.	2.5	29
38	Lipid Rafts Alter the Stability and Activity of the Cholera Toxin A1 Subunit*. <i>Journal of Biological Chemistry</i> , 2012, 287, 30395-30405.	3.4	29
39	Substrate-Induced Unfolding of Protein Disulfide Isomerase Displaces the Cholera Toxin A1 Subunit from Its Holotoxin. <i>PLoS Pathogens</i> , 2014, 10, e1003925.	4.7	29
40	A Therapeutic Chemical Chaperone Inhibits Cholera Intoxication and Unfolding/Translocation of the Cholera Toxin A1 Subunit. <i>PLoS ONE</i> , 2011, 6, e18825.	2.5	28
41	Effect of Guggulsterone and Cembranoids of <i>Commiphora mukul</i> on Pancreatic Phospholipase A ₂ : Role in Hypocholesterolemia. <i>Journal of Natural Products</i> , 2009, 72, 24-28.	3.0	24
42	Pyroglutamylated Amyloid- β^2 Peptide Reverses Cross β^2 -Sheets by a Prion-Like Mechanism. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5637-5643.	2.6	22
43	Thermal Unfolding of the Pertussis Toxin S1 Subunit Facilitates Toxin Translocation to the Cytosol by the Mechanism of Endoplasmic Reticulum-Associated Degradation. <i>Infection and Immunity</i> , 2016, 84, 3388-3398.	2.2	22
44	Reversible pH-dependent Conformational Change of Reconstituted Influenza Hemagglutinin. <i>Journal of Molecular Biology</i> , 1996, 260, 312-316.	4.2	21
45	Transmembrane pore formation by the carboxyl terminus of Bax protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 732-742.	2.6	21
46	ADP-ribosylation factor 6 acts as an allosteric activator for the folded but not disordered cholera toxin A ₁ polypeptide. <i>Molecular Microbiology</i> , 2014, 94, 898-912.	2.5	21
47	Molecular Basis for Membrane Pore Formation by Bax Protein Carboxyl Terminus. <i>Biochemistry</i> , 2012, 51, 9406-9419.	2.5	19
48	Structural and Functional Effects of Tryptophans Inserted into the Membrane-binding and Substrate-binding Sites of Human Group IIA Phospholipase A2. <i>Biochemistry</i> , 2006, 45, 12448-12460.	2.5	18
49	HSC70 and HSP90 chaperones perform complementary roles in translocation of the cholera toxin A1 subunit from the endoplasmic reticulum to the cytosol. <i>Journal of Biological Chemistry</i> , 2019, 294, 12122-12131.	3.4	18
50	Fluidity-dependence of membrane adhesiveness can be explained by thermotropic shifts in surface potential. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 901, 161-165.	2.6	16
51	Unmodified and pyroglutamylated amyloid β^2 peptides form hypertoxic hetero-oligomers of unique secondary structure. <i>FEBS Journal</i> , 2017, 284, 1355-1369.	4.7	15
52	Isotope-edited FTIR reveals distinct aggregation and structural behaviors of unmodified and pyroglutamylated amyloid β^2 peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32149-32160.	2.8	14
53	Interfacial Enzymes. <i>Methods in Enzymology</i> , 2017, 583, 197-230.	1.0	13
54	Structural Characteristics of the Plasmid-Encoded Toxin from Enteroaggregative <i>Escherichia coli</i> . <i>Biochemistry</i> , 2008, 47, 9582-9591.	2.5	11

#	ARTICLE	IF	CITATIONS
55	Structural analysis of proteins by isotope-edited FTIR spectroscopy. <i>Spectroscopy</i> , 2010, 24, 37-43.	0.8	11
56	Use of the amicyanin signal sequence for efficient periplasmic expression in <i>E. coli</i> of a human antibody light chain variable domain. <i>Protein Expression and Purification</i> , 2015, 108, 9-12.	1.3	11
57	Quercetin-3-Rutinoside Blocks the Disassembly of Cholera Toxin by Protein Disulfide Isomerase. <i>Toxins</i> , 2019, 11, 458.	3.4	11
58	Effects of A β -derived peptide fragments on fibrillogenesis of A β . <i>Scientific Reports</i> , 2021, 11, 19262.	3.3	10
59	Evaluation of Divalent Cation Binding to Phosphatidylserine Membranes by an Analysis of Concentration Dependence of Surface Potential. <i>Journal of Colloid and Interface Science</i> , 1995, 175, 131-137.	9.4	9
60	Determination of helix orientations in proteins. <i>Computational Biology and Chemistry</i> , 2008, 32, 370-374.	2.3	9
61	Stability and Conformational Resilience of Protein Disulfide Isomerase. <i>Biochemistry</i> , 2019, 58, 3572-3584.	2.5	9
62	Holotoxin disassembly by protein disulfide isomerase is less efficient for <i>Escherichia coli</i> heat-labile enterotoxin than cholera toxin. <i>Scientific Reports</i> , 2022, 12, 34.	3.3	9
63	A host-specific factor is necessary for efficient folding of the autotransporter plasmid-encoded toxin α . <i>Biochimie</i> , 2010, 92, 171-177.	2.6	8
64	Protein disulfide isomerase does not act as an unfoldase in the disassembly of cholera toxin. <i>Bioscience Reports</i> , 2018, 38, .	2.4	8
65	Quantitative Characterization of Membrane Binding of Peripheral Proteins by Spin-Label EPR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 8870-8877.	2.6	7
66	The sole tryptophan of amicyanin enhances its thermal stability but does not influence the electronic properties of the type 1 copper site. <i>Archives of Biochemistry and Biophysics</i> , 2014, 550-551, 20-27.	3.0	7
67	Reversal of Alpha-Synuclein Fibrillization by Protein Disulfide Isomerase. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 726.	3.7	7
68	Modulation of Toxin Stability by 4-Phenylbutyric Acid and Negatively Charged Phospholipids. <i>PLoS ONE</i> , 2011, 6, e23692.	2.5	7
69	Membrane Pore Formation by Peptides Studied by Fluorescence Techniques. <i>Methods in Molecular Biology</i> , 2019, 2003, 449-464.	0.9	5
70	From the Wave Equation to Biomolecular Structure and Dynamics. <i>Trends in Biochemical Sciences</i> , 2018, 43, 749-751.	7.5	3
71	Mutual structural effects of unmodified and pyroglutamylated amyloid β peptides during aggregation. <i>Journal of Peptide Science</i> , 2021, 27, e3312.	1.4	3
72	Unusual Thermal Stability of Human Secreted Phospholipase A2 Enzymes. <i>Biophysical Journal</i> , 2010, 98, 86a-87a.	0.5	1

#	ARTICLE	IF	CITATIONS
73	Molecular-Scale GPS: Positioning a Biosensor Peptide on RyR. <i>Biophysical Journal</i> , 2014, 107, 2003-2005.	0.5	1
74	Morphology-Dependent HIV-Enhancing Effect of Semen-Derived Enhancer of Viral Infection. <i>Biophysical Journal</i> , 2015, 108, 2028-2037.	0.5	1
75	Mechanisms of Interfacial Activation of Human and Bee Venom Phospholipase A2 Enzymes. <i>Biophysical Journal</i> , 2011, 100, 509a.	0.5	0
76	Membrane Destabilization by Alzheimer's Amyloid $\hat{1}^2$ Peptide. <i>Biophysical Journal</i> , 2013, 104, 239a-240a.	0.5	0
77	Structural Transitions in Unmodified and Pyroglutamylated Amyloid $\hat{1}^2$ Peptides upon Hydration by Water Vapor. <i>Biophysical Journal</i> , 2016, 110, 218a-219a.	0.5	0
78	Biophysical Characterization of Membrane Pores Formed by Amyloid Beta(25-35). <i>Biophysical Journal</i> , 2017, 112, 226a.	0.5	0
79	INSR. , 2016, , 1-12.		0
80	INSR. , 2018, , 2608-2619.		0