

# Yeon-Kyun Shin

## List of Publications by Year in descending order

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108  
papers

5,556  
citations

76326

40  
h-index

91884

69  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cooperative inhibition of SNARE-mediated vesicle fusion by $\hat{\alpha}$ -synuclein monomers and oligomers. <i>Scientific Reports</i> , 2021, 11, 10955.	3.3	20
2	Membrane Binding of $\hat{\alpha}$ -Synuclein Stimulates Expansion of SNARE-Dependent Fusion Pore. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 663431.	3.7	19
3	Stabilization of the SNARE Core by Complexin-1 Facilitates Fusion Pore Expansion. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 805000.	3.5	4
4	Munc18-1 induces conformational changes of syntaxin-1 in multiple intermediates for SNARE assembly. <i>Scientific Reports</i> , 2020, 10, 11623.	3.3	11
5	Search for a minimal machinery for $\text{Ca}^{2+}$ -triggered millisecond neuroexocytosis. <i>Neuroscience</i> , 2019, 420, 4-11.	2.3	4
6	Alpha-Synuclein Continues to Enhance SNARE-Dependent Vesicle Docking at Exorbitant Concentrations. <i>Frontiers in Neuroscience</i> , 2019, 13, 216.	2.8	30
7	Virucidal nano-perforator of viral membrane trapping viral RNAs in the endosome. <i>Nature Communications</i> , 2019, 10, 185.	12.8	35
8	EPR Lineshape Analysis to Investigate the SNARE Folding Intermediates. <i>Methods in Molecular Biology</i> , 2019, 1860, 33-51.	0.9	0
9	Regulation of SNARE-Dependent Membrane Fusion by Alpha-Synuclein. <i>FASEB Journal</i> , 2019, 33, 791.9.	0.5	0
10	$\hat{\alpha}$ -Synuclein may cross-bridge v-SNARE and acidic phospholipids to facilitate SNARE-dependent vesicle docking. <i>Biochemical Journal</i> , 2017, 474, 2039-2049.	3.7	68
11	Botulinum Toxins A and E Inflict Dynamic Destabilization on t-SNARE to Impair SNARE Assembly and Membrane Fusion. <i>Structure</i> , 2017, 25, 1679-1686.e5.	3.3	13
12	Structures and transport dynamics of a <i>Campylobacter jejuni</i> multidrug efflux pump. <i>Nature Communications</i> , 2017, 8, 171.	12.8	69
13	Real-Time Observation of Target Search by the CRISPR Surveillance Complex Cascade. <i>Cell Reports</i> , 2017, 21, 3717-3727.	6.4	39
14	Hemifusion in Synaptic Vesicle Cycle. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 65.	2.9	26
15	Visualization of SNARE-Mediated Hemifusion between Giant Unilamellar Vesicles Arrested by Myricetin. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 93.	2.9	12
16	Productive and Non-productive Pathways for Synaptotagmin 1 to Support $\text{Ca}^{2+}$ -Triggered Fast Exocytosis. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 380.	2.9	10
17	Inositol pyrophosphates inhibit synaptotagmin-dependent exocytosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8314-8319.	7.1	41
18	SNARE zippering. <i>Bioscience Reports</i> , 2016, 36, .	2.4	34

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19	Complexin splits the membrane-proximal region of a single SNAREpin. <i>Biochemical Journal</i> , 2016, 473, 2219-2224.	3.7	15
20	Biophysical characterization of the structural change of Nopp140, an intrinsically disordered protein, in the interaction with CK2 $\beta$ . <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 181-187.	2.1	5
21	Preincubation of t-SNAREs with Complexin I Increases Content-Mixing Efficiency. <i>Biochemistry</i> , 2016, 55, 3667-3673.	2.5	9
22	A Chemical Controller of SNARE-Driven Membrane Fusion That Primes Vesicles for Ca <sup>2+</sup> -Triggered Millisecond Exocytosis. <i>Journal of the American Chemical Society</i> , 2016, 138, 4512-4521.	13.7	21
23	Molecular origins of synaptotagmin 1 activities on vesicle docking and fusion pore opening. <i>Scientific Reports</i> , 2015, 5, 9267.	3.3	20
24	$\beta$ -Amyloid and $\alpha$ -Synuclein Cooperate To Block SNARE-Dependent Vesicle Fusion. <i>Biochemistry</i> , 2015, 54, 1831-1840.	2.5	23
25	Lipid molecules influence early stages of yeast SNARE-mediated membrane fusion. <i>Physical Biology</i> , 2015, 12, 025003.	1.8	12
26	Synaptotagmin-1 Is an Antagonist for Munc18-1 in SNARE Zippering. <i>Journal of Biological Chemistry</i> , 2015, 290, 10535-10543.	3.4	18
27	Structural and biochemical insights into the role of testis-expressed gene 14 (TEX14) in forming the stable intercellular bridges of germ cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12372-12377.	7.1	28
28	Amyloid- $\beta$ Oligomers May Impair SNARE-Mediated Exocytosis by Direct Binding to Syntaxin 1a. <i>Cell Reports</i> , 2015, 12, 1244-1251.	6.4	54
29	An amphipathic polypeptide derived from poly $\alpha$ -glutamic acid for the stabilization of membrane proteins. <i>Protein Science</i> , 2014, 23, 1800-1807.	7.6	13
30	Multiple conformations of a single SNAREpin between two nanodisc membranes reveal diverse pre-fusion states. <i>Biochemical Journal</i> , 2014, 459, 95-102.	3.7	34
31	Switch for the Necroptotic Permeation Pore. <i>Structure</i> , 2014, 22, 1374-1376.	3.3	6
32	Beta-Amyloid Oligomers Activate Apoptotic BAK Pore for Cytochrome c Release. <i>Biophysical Journal</i> , 2014, 107, 1601-1608.	0.5	29
33	SNARE zippering is hindered by polyphenols in the neuron. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 831-836.	2.1	3
34	Nonaggregated $\alpha$ -Synuclein Influences SNARE-Dependent Vesicle Docking via Membrane Binding. <i>Biochemistry</i> , 2014, 53, 3889-3896.	2.5	70
35	Real-Time Observation of Multiple-Protein Complex Formation with Single-Molecule FRET. <i>Journal of the American Chemical Society</i> , 2013, 135, 10254-10257.	13.7	18
36	Mechanical unzipping and re-zipping of a single SNARE complex reveals hysteresis as a force-generating mechanism. <i>Nature Communications</i> , 2013, 4, 1705.	12.8	96

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37	Bacterially expressed human serotonin receptor 3A is functionally reconstituted in proteoliposomes. <i>Protein Expression and Purification</i> , 2013, 88, 190-195.	1.3	13
38	Large $\hat{\pm}$ -synuclein oligomers inhibit neuronal SNARE-mediated vesicle docking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4087-4092.	7.1	233
39	Fusion pore formation and expansion induced by $\text{Ca}^{2+}$ and synaptotagmin 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1333-1338.	7.1	94
40	The synaptotagmin 1 linker may function as an electrostatic zipper that opens for docking but closes for fusion pore opening. <i>Biochemical Journal</i> , 2013, 456, 25-33.	3.7	26
41	Polyphenols differentially inhibit degranulation of distinct subsets of vesicles in mast cells by specific interaction with granule-type-dependent SNARE complexes. <i>Biochemical Journal</i> , 2013, 450, 537-546.	3.7	26
42	Two gigs of Munc18 in membrane fusion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14116-14117.	7.1	11
43	Solution single-vesicle assay reveals $\text{PIP}_2$ -mediated sequential actions of synaptotagmin-1 on SNAREs. <i>EMBO Journal</i> , 2012, 31, 2144-2155.	7.8	71
44	The importance of an asymmetric distribution of acidic lipids for synaptotagmin 1 function as a $\text{Ca}^{2+}$ sensor. <i>Biochemical Journal</i> , 2012, 443, 223-229.	3.7	18
45	A single vesicle-vesicle fusion assay for in vitro studies of SNAREs and accessory proteins. <i>Nature Protocols</i> , 2012, 7, 921-934.	12.0	98
46	Chasing the Trails of SNAREs and Lipids Along the Membrane Fusion Pathway. <i>Current Topics in Membranes</i> , 2011, 68, 161-184.	0.9	3
47	$\text{Mg}^{2+}$ Channel Selectivity Probed by EPR. <i>Structure</i> , 2010, 18, 759-760.	3.3	0
48	Dynamic $\text{Ca}^{2+}$ -Dependent Stimulation of Vesicle Fusion by Membrane-Anchored Synaptotagmin 1. <i>Science</i> , 2010, 328, 760-763.	12.6	117
49	Molecular Basis of the Potent Membrane-remodeling Activity of the Epsin 1 N-terminal Homology Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 531-540.	3.4	59
50	Dissection of SNARE-driven membrane fusion and neuroexocytosis by wedging small hydrophobic molecules into the SNARE zipper. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22145-22150.	7.1	47
51	Single-Vesicle Fusion Assay Reveals Munc18-1 Binding to the SNARE Core Is Sufficient for Stimulating Membrane Fusion. <i>ACS Chemical Neuroscience</i> , 2010, 1, 168-174.	3.5	43
52	Accessory $\hat{\pm}$ -Helix of Complexin I Can Displace VAMP2 Locally in the Complexin-SNARE Quaternary Complex. <i>Journal of Molecular Biology</i> , 2010, 396, 602-609.	4.2	28
53	A single-vesicle content mixing assay for SNARE-mediated membrane fusion. <i>Nature Communications</i> , 2010, 1, 54.	12.8	73
54	Cholesterol, Statins, and Brain Function: A Hypothesis from a Molecular Perspective. <i>Interdisciplinary Bio Central</i> , 2009, 1, 6-8.	0.1	4

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55	A scissors mechanism for stimulation of SNARE-mediated lipid mixing by cholesterol. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5141-5146.	7.1	107
56	Disulfide Bond as a Structural Determinant of Prion Protein Membrane Insertion. Molecules and Cells, 2009, 27, 673-680.	2.6	12
57	Inhibition of SNARE-driven neuroexocytosis by plant extracts. Biotechnology Letters, 2009, 31, 361-369.	2.2	10
58	C2AB: A Molecular Glue for Lipid Vesicles with a Negatively Charged Surface. Langmuir, 2009, 25, 7177-7180.	3.5	29
59	Fusion Step-Specific Influence of Cholesterol on SNARE-Mediated Membrane Fusion. Biophysical Journal, 2009, 96, 1839-1846.	0.5	34
60	A search for synthetic peptides that inhibit soluble N-ethylmaleimide sensitive factor attachment receptor-mediated membrane fusion. FEBS Journal, 2008, 275, 3051-3063.	4.7	17
61	Supramolecular SNARE assembly precedes hemifusion in SNARE-mediated membrane fusion. Nature Structural and Molecular Biology, 2008, 15, 700-706.	8.2	49
62	Complexin and Ca <sup>2+</sup> stimulate SNARE-mediated membrane fusion. Nature Structural and Molecular Biology, 2008, 15, 707-713.	8.2	113
63	The SNARE Complex from Yeast Is Partially Unstructured on the Membrane. Structure, 2008, 16, 1138-1146.	3.3	21
64	The Mechanism of Temperature-Induced Bacterial HtrA Activation. Journal of Molecular Biology, 2008, 377, 410-420.	4.2	19
65	Deep membrane insertion of prion protein upon reduction of disulfide bond. Biochemical and Biophysical Research Communications, 2008, 377, 995-1000.	2.1	11
66	Transmembrane Organization of Yeast Syntaxin-Analogue Sso1p. Biochemistry, 2006, 45, 4173-4181.	2.5	23
67	Synaptotagmin I and Ca <sup>2+</sup> -promote half fusion more than full fusion in SNARE-mediated bilayer fusion. FEBS Letters, 2006, 580, 2238-2246.	2.8	22
68	Hemifusion arrest by complexin is relieved by Ca <sup>2+</sup> -synaptotagmin I. Nature Structural and Molecular Biology, 2006, 13, 748-750.	8.2	203
69	C2B Polylysine Motif of Synaptotagmin Facilitates a Ca <sup>2+</sup> -independent Stage of Synaptic Vesicle Priming In Vivo. Molecular Biology of the Cell, 2006, 17, 5211-5226.	2.1	52
70	Multiple intermediates in SNARE-induced membrane fusion. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19731-19736.	7.1	207
71	Membrane topology of helix 0 of the Epsin N-terminal homology domain. Molecules and Cells, 2006, 21, 428-35.	2.6	28
72	Hemifusion in SNARE-mediated membrane fusion. Nature Structural and Molecular Biology, 2005, 12, 417-422.	8.2	226

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73	Membrane Fusion Induced by Neuronal SNAREs Transits through Hemifusion. <i>Journal of Biological Chemistry</i> , 2005, 280, 30538-30541.	3.4	114
74	A Partially Zipped SNARE Complex Stabilized by the Membrane. <i>Journal of Biological Chemistry</i> , 2005, 280, 15595-15600.	3.4	30
75	YKT6 is a Core Constituent of Membrane Fusion Machineries at the Arabidopsis trans-Golgi Network. <i>Journal of Molecular Biology</i> , 2005, 350, 92-101.	4.2	48
76	SNARE Assembly and Membrane Fusion, a Kinetic Analysis. <i>Journal of Biological Chemistry</i> , 2004, 279, 38668-38672.	3.4	27
77	Constitutive versus regulated SNARE assembly: a structural basis. <i>EMBO Journal</i> , 2004, 23, 681-689.	7.8	50
78	Regulation of neuronal SNARE assembly by the membrane. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 440-447.	8.2	128
79	Insertion of the Membrane-proximal Region of the Neuronal SNARE Coiled Coil into the Membrane. <i>Journal of Biological Chemistry</i> , 2003, 278, 12367-12373.	3.4	56
80	The Four-helix Bundle of the Neuronal Target Membrane SNARE Complex Is Neither Disordered in the Middle nor Uncoiled at the C-terminal Region. <i>Journal of Biological Chemistry</i> , 2002, 277, 24294-24298.	3.4	37
81	EPR Spectroscopic Ruler: the Method and its Applications. <i>Biological Magnetic Resonance</i> , 2002, , 249-276.	0.4	5
82	The Membrane-Dipped Neuronal SNARE Complex: A Site-Directed Spin Labeling Electron Paramagnetic Resonance Study. <i>Biochemistry</i> , 2002, 41, 9264-9268.	2.5	44
83	Membrane Topologies of Neuronal SNARE Folding Intermediates. <i>Biochemistry</i> , 2002, 41, 10928-10933.	2.5	58
84	Probing Domain Swapping for the Neuronal SNARE Complex with Electron Paramagnetic Resonance. <i>Biochemistry</i> , 2002, 41, 5449-5452.	2.5	22
85	Self-assembly of influenza hemagglutinin: studies of ectodomain aggregation by in situ atomic force microscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1513, 167-175.	2.6	27
86	The 1 <sup>st</sup> 127 HA2 Construct of Influenza Virus Hemagglutinin Induces Cell-Cell Hemifusion. <i>Biochemistry</i> , 2001, 40, 8378-8386.	2.5	49
87	The neuronal t-SNARE complex is a parallel four-helix bundle. <i>Nature Structural Biology</i> , 2001, 8, 308-311.	9.7	101
88	Insights into a Structure-Based Mechanism of Viral Membrane Fusion. <i>Bioscience Reports</i> , 2000, 20, 557-570.	2.4	11
89	Arachidonic Acid and Nonsteroidal Anti-inflammatory Drugs Induce Conformational Changes in the Human Prostaglandin Endoperoxide H2 Synthase-2 (Cyclooxygenase-2). <i>Journal of Biological Chemistry</i> , 2000, 275, 40407-40415.	3.4	20
90	Light-induced Rotation of a Transmembrane $\alpha$ -Helix in Bacteriorhodopsin. <i>Journal of Molecular Biology</i> , 2000, 304, 715-721.	4.2	67

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91	Design and Characterization of A Synthetic Electron-Transfer Protein. Journal of the American Chemical Society, 2000, 122, 7999-8006.	13.7	51
92	Factors Determining Vesicular Lipid Mixing Induced by Shortened Constructs of Influenza Hemagglutinin. Biochemistry, 2000, 39, 2733-2739.	2.5	20
93	A Piston Model for Transmembrane Signaling of the Aspartate Receptor. Science, 1999, 285, 1751-1754.	12.6	259
94	The Membrane Affinities of the Aliphatic Amino Acid Side Chains in an $\alpha$ -Helical Context Are Independent of Membrane Immersion Depth. Biochemistry, 1999, 38, 337-346.	2.5	17
95	The ectodomain of HA2 of influenza virus promotes rapid pH dependent membrane fusion 1 Edited by A. R. Fersht. Journal of Molecular Biology, 1999, 286, 489-503.	4.2	84
96	The synaptic SNARE complex is a parallel four-stranded helical bundle. Nature Structural Biology, 1998, 5, 765-769.	9.7	450
97	K <sup>+</sup> channel gating mechanism proposed using EPR. Nature Structural Biology, 1998, 5, 418-420.	9.7	2
98	Direct Measurement of Small Ligand-Induced Conformational Changes in the Aspartate Chemoreceptor Using EPR. Biochemistry, 1998, 37, 7062-7069.	2.5	45
99	The Mechanism for Low-pH-Induced Clustering of Phospholipid Vesicles Carrying the HA2 Ectodomain of Influenza Hemagglutinin. Biochemistry, 1998, 37, 137-144.	2.5	37
100	Two Modes of Ligand Binding in Maltose-binding Protein of Escherichia coli. Journal of Biological Chemistry, 1997, 272, 17610-17614.	3.4	58
101	The membrane topology of the fusion peptide region of influenza hemagglutinin determined by spin-labeling EPR. Journal of Molecular Biology, 1997, 267, 1139-1148.	4.2	131
102	Transient channel-opening in bacteriorhodopsin: an EPR study 1 Edited by D. Ress. Journal of Molecular Biology, 1997, 273, 951-957.	4.2	119
103	HIV-1 gp41 Tertiary Structure Studied by EPR Spectroscopy. Biochemistry, 1996, 35, 13922-13928.	2.5	44
104	Temperature Dependence of Polypeptide Partitioning between Water and Phospholipid Bilayers. Biochemistry, 1996, 35, 9526-9532.	2.5	33
105	On the Dynamics and Conformation of the HA2 Domain of the Influenza Virus Hemagglutinin. Biochemistry, 1996, 35, 5359-5365.	2.5	28
106	Direct Determination of the Membrane Affinities of Individual Amino Acids. Biochemistry, 1996, 35, 1803-1809.	2.5	78
107	A Peptide from the Heptad Repeat of Human Immunodeficiency Virus gp41 Shows both Membrane Binding and Coiled-Coil Formation. Biochemistry, 1995, 34, 13390-13397.	2.5	99
108	Topology of an Amphiphilic Mitochondrial Signal Sequence in the Membrane-Inserted State: A Spin Labeling Study. Biochemistry, 1994, 33, 14221-14226.	2.5	51