IngMarie Nilsson

List of Publications by Year
in descending order

59 papers	4,915 citations	117625 34 h-index	138484 58 g-index
60 all docs	60 docs citations	60 times ranked	4692 citing authors

#	Article	IF	Citations
1	Recognition of transmembrane helices by the endoplasmic reticulum translocon. Nature, 2005, 433, 377-381.	27.8	888
2	Molecular code for transmembrane-helix recognition by the Sec61 translocon. Nature, 2007, 450, 1026-1030.	27.8	644
3	Topology, Subcellular Localization, and Sequence Diversity of the Mlo Family in Plants. Journal of Biological Chemistry, 1999, 274, 34993-35004.	3.4	261
4	Fine-tuning the topology of a polytopic membrane protein: Role of positively and negatively charged amino acids. Cell, 1990, 62, 1135-1141.	28.9	225
5	Membrane topology of the <i>Drosophila</i> OR83b odorant receptor. FEBS Letters, 2007, 581, 5601-5604.	2.8	194
6	Molecular Mechanism of Membrane Protein Integration into the Endoplasmic Reticulum. Cell, 1997, 89, 523-533.	28.9	185
7	RIFINs are adhesins implicated in severe Plasmodium falciparum malaria. Nature Medicine, 2015, 21, 314-317.	30.7	166
8	Proline-induced disruption of a transmembrane Î±-helix in its natural environment. Journal of Molecular Biology, 1998, 284, 1165-1175.	4.2	134
9	A Nascent Secretory Protein 5 Traverse the Ribosome/Endoplasmic Reticulum Translocase Complex as an Extended Chain. Journal of Biological Chemistry, 1996, 271, 6241-6244.	3.4	133
10	Photocross-linking of nascent chains to the STT3 subunit of the oligosaccharyltransferase complex. Journal of Cell Biology, 2003, 161, 715-725.	5.2	124
11	Membrane topology of the human seipin protein. FEBS Letters, 2006, 580, 2281-2284.	2.8	105
12	Positively and negatively charged residues have different effects on the position in the membrane of a model transmembrane helix. Journal of Molecular Biology, 1998, 284, 1177-1183.	4.2	101
13	Turns in transmembrane helices: determination of the minimal length of a â€œhelical hairpinâ€•and derivation of a fine-grained turn propensity scale 1 1Edited by F. E. Cohen. Journal of Molecular Biology, 1999, 293, 807-814.	4.2	95
14	Somatic Acquisition and Signaling of <EMPH TYPE="ITAL">TGFBR1</EMPH>*6A in Cancer. JAMA - Journal of the American Medical Association, 2005, 294, 1634.	7.4	87
15	Membrane Insertion of Marginally Hydrophobic Transmembrane Helices Depends on Sequence Context. Journal of Molecular Biology, 2010, 396, 221-229.	4.2	82
16	Inefficient SRP Interaction with a Nascent Chain Triggers a mRNA Quality Control Pathway. Cell, 2014, 156, 146-157.	28.9	77
17	Insertion of short transmembrane helices by the Sec61 translocon. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11588-11593.	7.1	76
18	Determination of the Border between the Transmembrane and Cytoplasmic Domains of Human Integrin Subunits. Journal of Biological Chemistry, 1999, 274, 37030-37034.	3.4	71

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19	Molecular code for protein insertion in the endoplasmic reticulum membrane is similar for N _{in} â€“C _{out} and N _{out} â€“C _{in} transmembrane helices. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15702-15707.	7.1	69
20	Glycosylation Efficiency of Asn-Xaa-Thr Sequons Depends Both on the Distance from the C Terminus and on the Presence of a Downstream Transmembrane Segment. Journal of Biological Chemistry, 2000, 275, 17338-17343.	3.4	66
21	Asnâ€•and Aspâ€•mediated interactions between transmembrane helices during transloconâ€•mediated membrane protein assembly. EMBO Reports, 2006, 7, 1111-1116.	4.5	65
22	Positively charged amino acids placed next to a signal sequence block protein translocation more efficiently in Escherichia coli than in mammalian microsomes. Molecular Genetics and Genomics, 1993, 239, 251-256.	2.4	64
23	Inhibition of Protein Translocation across the Endoplasmic Reticulum Membrane by Sterols. Journal of Biological Chemistry, 2001, 276, 41748-41754.	3.4	63
24	A signal peptide with a proline next to the cleavage site inhibits leader peptidase when present in asec-independent protein. FEBS Letters, 1992, 299, 243-246.	2.8	61
25	Contribution of positively charged flanking residues to the insertion of transmembrane helices into the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4127-4132.	7.1	60
26	The Code for Directing Proteins for Translocation across ER Membrane: SRP Cotranslationally Recognizes Specific Features of a Signal Sequence. Journal of Molecular Biology, 2015, 427, 1191-1201.	4.2	60
27	Breaking the camelâ€™s back: proline-induced turns in a model transmembrane helix. Journal of Molecular Biology, 1998, 284, 1185-1189.	4.2	54
28	Apolar surface area determines the efficiency of translocon-mediated membrane-protein integration into the endoplasmic reticulum. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E359-E364.	7.1	52
29	Orientational Preferences of Neighboring Helices Can Drive ER Insertion of a Marginally Hydrophobic Transmembrane Helix. Molecular Cell, 2012, 45, 529-540.	9.7	52
30	Determination of N- and C-terminal Borders of the Transmembrane Domain of Integrin Subunits. Journal of Biological Chemistry, 2004, 279, 21200-21205.	3.4	50
31	Membrane-integration Characteristics of Two ABC Transporters, CFTR and P-glycoprotein. Journal of Molecular Biology, 2009, 387, 1153-1164.	4.2	49
32	New Escherichia coli outer membrane proteins identified through prediction and experimental verification. Protein Science, 2006, 15, 884-889.	7.6	43
33	Structure and topology around the cleavage site regulate post-translational cleavage of the HIV-1 gp160 signal peptide. ELife, 2017, 6, .	6.0	41
34	De novo design of integral membrane proteins. Nature Structural and Molecular Biology, 1994, 1, 858-862.	8.2	40
35	Transmembrane but not soluble helices fold inside the ribosome tunnel. Nature Communications, 2018, 9, 5246.	12.8	36
36	Distant Downstream Sequence Determinants Can Control N-tail Translocation during Protein Insertion into the Endoplasmic Reticulum Membrane. Journal of Biological Chemistry, 2000, 275, 6207-6213.	3.4	35

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37	How Hydrophobic Is Alanine?. Journal of Biological Chemistry, 2003, 278, 29389-29393.	3.4	30
38	Membrane Topology of the STT3 Subunit of the Oligosaccharyl Transferase Complex*. Journal of Biological Chemistry, 2005, 280, 20261-20267.	3.4	30
39	Insertion of a Bacterial Secondary Transport Protein in the Endoplasmic Reticulum Membrane. Journal of Biological Chemistry, 1999, 274, 2816-2823.	3.4	28
40	Mapping the Interaction of the STT3 Subunit of the Oligosaccharyl Transferase Complex with Nascent Polypeptide Chains. Journal of Biological Chemistry, 2005, 280, 40489-40493.	3.4	25
41	Cleavage of a tail-anchored protein by signal peptidase. FEBS Letters, 2002, 516, 106-108.	2.8	24
42	Membrane insertion and topology of the aminoâ€terminal domain TMD0 of multidrugâ€resistance associated protein 6 (MRP6). FEBS Letters, 2015, 589, 3921-3928.	2.8	22
43	Gene Duplication Leads to Altered Membrane Topology of a Cytochrome P450 Enzyme in Seed Plants. Molecular Biology and Evolution, 2017, 34, 2041-2056.	8.9	20
44	Live-cell topology assessment of URG7, MRP6102 and SP-C using glycosylatable green fluorescent protein in mammalian cells. Biochemical and Biophysical Research Communications, 2014, 450, 1587-1592.	2.1	18
45	EpCAM associates with endoplasmic reticulum aminopeptidase 2 (ERAP2) in breast cancer cells. Biochemical and Biophysical Research Communications, 2013, 439, 203-208.	2.1	15
46	Thermodynamics of Membrane Insertion and Refolding of the Diphtheria Toxin T-Domain. Journal of Membrane Biology, 2015, 248, 383-394.	2.1	14
47	Changed membrane integration and catalytic site conformation are two mechanisms behind the increased Aî²42/Aî²40 ratio by presenilin 1 familial Alzheimerâ€linked mutations. FEBS Open Bio, 2014, 4, 393-406.	2.3	12
48	Calnexin can interact withN-linked glycans located close to the endoplasmic reticulum membrane. FEBS Letters, 1996, 397, 321-324.	2.8	10
49	Folding and Intramembraneous BRICHOS Binding of the Prosurfactant Protein C Transmembrane Segment. Journal of Biological Chemistry, 2015, 290, 17628-17641.	3.4	10
50	Differentsec-requirements for signal peptide cleavage and protein translocation in a modelE. coliprotein. FEBS Letters, 1993, 318, 7-10.	2.8	7
51	Membrane integration and topology of RIFIN and STEVOR proteins of the <i>PlasmodiumÂfalciparum</i> parasite. FEBS Journal, 2020, 287, 2744-2762.	4.7	7
52	Stable insertion of Alzheimer Aî² peptide into the ER membrane strongly correlates with its length. FEBS Letters, 2007, 581, 3809-3813.	2.8	5
53	Large Tilts in Transmembrane Helices Can Be Induced during Tertiary Structure Formation. Journal of Molecular Biology, 2014, 426, 2529-2538.	4.2	5
54	Epitopes of anti-RIFIN antibodies and characterization of rif-expressing Plasmodium falciparum parasites by RNA sequencing. Scientific Reports, 2017, 7, 43190.	3.3	5

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55	Refined topology model of the STT3/Stt3 protein subunit of the oligosaccharyltransferase complex. Journal of Biological Chemistry, 2017, 292, 11349-11360.	3.4	5
56	Murine astrotactins 1 and 2 have a similar membrane topology and mature via endoproteolytic cleavage catalyzed by a signal peptidase. Journal of Biological Chemistry, 2019, 294, 4538-4545.	3.4	5
57	Spc1 regulates the signal peptidase-mediated processing of membrane proteins. Journal of Cell Science, 2021, 134, .	2.0	5
58	Direct Detection of Membrane-Inserting Fragments Defines the Translocation Pores of a Family of Pathogenic Toxins. Journal of Molecular Biology, 2018, 430, 3190-3199.	4.2	4
59	Distant downstream sequence determinants can control N-tail translocation during protein insertion into the endoplasmic reticulum membrane.. Journal of Biological Chemistry, 2000, 275, 10716.	3.4	0