Mikhail Bogdanov

List of Publications by Year
in descending order

57 papers	3,471 citations	159585 30 h-index	206112 48 g-index
58 all docs	58 docs citations	58 times ranked	2774 citing authors

#	Article	IF	Citations
1	Eugene P. Kennedyâ€™s Legacy: Defining Bacterial Phospholipid Pathways and Function. Frontiers in Molecular Biosciences, 2021, 8, 666203.	3.5	10
2	Extreme deformability of insect cell membranes is governed by phospholipid scrambling. Cell Reports, 2021, 35, 109219.	6.4	25
3	TTAPE-Me dye is not selective to cardiolipin and binds to common anionic phospholipids nonspecifically. Biophysical Journal, 2021, 120, 3776-3786.	0.5	6
4	Functional roles of lipids in biological membranes. , 2021, , 1-51.		1
5	Characterization of SLC34A2 as a Potential Prognostic Marker of Oncological Diseases. Biomolecules, 2021, 11, 1878.	4.0	4
6	Single Amino Acid Replacements in RocA Disrupt Protein-Protein Interactions To Alter the Molecular Pathogenesis of Group A <i>Streptococcus</i>. Infection and Immunity, 2020, 88, .	2.2	4
7	Cardiolipin is required in vivo for the stability of bacterial translocon and optimal membrane protein translocation and insertion. Scientific Reports, 2020, 10, 6296.	3.3	30
8	Phospholipid distribution in the cytoplasmic membrane of Gram-negative bacteria is highly asymmetric, dynamic, and cell shape-dependent. Science Advances, 2020, 6, eaaz6333.	10.3	81
9	The lipid-dependent structure and function of LacY can be recapitulated and analyzed in phospholipid-containing detergent micelles. Scientific Reports, 2019, 9, 11338.	3.3	7
10	Functional Roles of Individual Membrane Phospholipids in Escherichia coli and Saccharomyces cerevisiae. , 2019, , 553-574.		0
11	Lipid-Assisted Membrane Protein Folding and Topogenesis. Protein Journal, 2019, 38, 274-288.	1.6	50
12	Measurement of Lysophospholipid Transport Across the Membrane Using Escherichia coli Spheroplasts. Methods in Molecular Biology, 2019, 1949, 165-180.	0.9	11
13	Flip-Flopping Membrane Proteins: How the Charge Balance Rule Governs Dynamic Membrane Protein Topology. , 2019, , 609-636.		0
14	Relationship between Adaptive Changing of Lysophosphatidylethanolamine Content in the Bacterial Envelope and Ampicillin Sensitivity of <i>Yersinia pseudotuberculosis</i>. Journal of Molecular Microbiology and Biotechnology, 2018, 28, 236-239.	1.0	1
15	Flip-Flopping Membrane Proteins: How the Charge Balance Rule Governs Dynamic Membrane Protein Topology. , 2018, , 1-28.		3
16	Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent. Nature Communications, 2017, 8, 14108.	12.8	81
17	Dynamic Lipid-dependent Modulation of Protein Topology by Post-translational Phosphorylation. Journal of Biological Chemistry, 2017, 292, 1613-1624.	3.4	29
18	Tat transport in <i>Escherichia coli</i> requires zwitterionic phosphatidylethanolamine but no specific negatively charged phospholipid. FEBS Letters, 2017, 591, 2848-2858.	2.8	9

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19	Effects of mixed proximal and distal topogenic signals on the topological sensitivity of a membrane protein to the lipid environment. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1291-1300.	2.6	7
20	Mapping of Membrane Protein Topology by Substituted Cysteine Accessibility Method (SCAMâ„¢). Methods in Molecular Biology, 2017, 1615, 105-128.	0.9	18
21	Functional Roles of Individual Membrane Phospholipids in Escherichia coli and Saccharomyces cerevisiae. , 2017, , 1-22.		3
22	Substrate Selectivity of Lysophospholipid Transporter LplT Involved in Membrane Phospholipid Remodeling in Escherichia coli. Journal of Biological Chemistry, 2016, 291, 2136-2149.	3.4	31
23	Functional Roles of Lipids in Membranes. , 2016, , 1-40.		8
24	Dynamic membrane protein topological switching upon changes in phospholipid environment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13874-13879.	7.1	75
25	Biosynthetic preparation of selectively deuterated phosphatidylcholine in genetically modified Escherichia coli. Applied Microbiology and Biotechnology, 2015, 99, 241-254.	3.6	31
26	May the Force Be With You: Unfolding Lipid-Protein Interactions By Single-Molecule Force Spectroscopy. Structure, 2015, 23, 612-614.	3.3	4
27	Competition between Grb2 and PlcÎ³1 for FGFR2 regulates basal phospholipase activity and invasion. Nature Structural and Molecular Biology, 2014, 21, 180-188.	8.2	54
28	Lipids and topological rules governing membrane protein assembly. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1475-1488.	4.1	113
29	Subcellular Localization and Logistics of Integral Membrane Protein Biogenesis inEscherichia coli. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 24-34.	1.0	8
30	In vitro reconstitution of lipid-dependent dual topology and postassembly topological switching of a membrane protein. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9338-9343.	7.1	87
31	Proper Fatty Acid Composition Rather than an Ionizable Lipid Amine Is Required for Full Transport Function of Lactose Permease from Escherichia coli. Journal of Biological Chemistry, 2013, 288, 5873-5885.	3.4	29
32	Discovery of a cardiolipin synthase utilizing phosphatidylethanolamine and phosphatidylglycerol as substrates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16504-16509.	7.1	195
33	Lipid-dependent Generation of Dual Topology for a Membrane Protein. Journal of Biological Chemistry, 2012, 287, 37939-37948.	3.4	58
34	Molecular genetic and biochemical approaches for defining lipid-dependent membrane protein folding. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1097-1107.	2.6	31
35	Lipids and Topological Rules of Membrane Protein Assembly. Journal of Biological Chemistry, 2011, 286, 15182-15194.	3.4	39
36	Lipidâ€"protein interactions as determinants of membrane protein structure and function. Biochemical Society Transactions, 2011, 39, 767-774.	3.4	73

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37	Lipid-Assisted Membrane Protein Folding and Topogenesis. , 2011, , 177-201.		0
38	Plasticity of lipid-protein interactions in the function and topogenesis of the membrane protein lactose permease from <i>Escherichia coli</i>. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15057-15062.	7.1	91
39	Study of Polytopic Membrane Protein Topological Organization as a Function of Membrane Lipid Composition. Methods in Molecular Biology, 2010, 619, 79-101.	0.9	31
40	Lipid-Protein Interactions Drive Membrane Protein Topogenesis in Accordance with the Positive Inside Rule. Journal of Biological Chemistry, 2009, 284, 9637-9641.	3.4	67
41	Lipid-engineered Escherichia coli Membranes Reveal Critical Lipid Headgroup Size for Protein Function. Journal of Biological Chemistry, 2009, 284, 954-965.	3.4	72
42	Lipid-Dependent Membrane Protein Topogenesis. Annual Review of Biochemistry, 2009, 78, 515-540.	11.1	229
43	Functional roles of lipids in membranes. , 2008, , 1-37.		51
44	To flip or not to flip: lipidâ€“protein charge interactions are a determinant of final membrane protein topology. Journal of Cell Biology, 2008, 182, 925-935.	5.2	128
45	Lipids in the Assembly of Membrane Proteins and Organization of Protein Supercomplexes: Implications for Lipid-linked Disorders. Sub-Cellular Biochemistry, 2008, 49, 197-239.	2.4	117
46	Phosphatidylethanolamine and Monoglucosyldiacylglycerol Are Interchangeable in Supporting Topogenesis and Function of the Polytopic Membrane Protein Lactose Permease. Journal of Biological Chemistry, 2006, 281, 19172-19178.	3.4	80
47	Transmembrane protein topology mapping by the substituted cysteine accessibility method (SCAMTM): Application to lipid-specific membrane protein topogenesis. Methods, 2005, 36, 148-171.	3.8	133
48	Monoglucosyldiacylglycerol, a Foreign Lipid, Can Substitute for Phosphatidylethanolamine in Essential Membrane-associated Functions in Escherichia coli. Journal of Biological Chemistry, 2004, 279, 10484-10493.	3.4	68
49	Reversible Topological Organization within a Polytopic Membrane Protein Is Governed by a Change in Membrane Phospholipid Composition. Journal of Biological Chemistry, 2003, 278, 50128-50135.	3.4	99
50	A polytopic membrane protein displays a reversible topology dependent on membrane lipid composition. EMBO Journal, 2002, 21, 2107-2116.	7.8	205
51	Topology of polytopic membrane protein subdomains is dictated by membrane phospholipid composition. EMBO Journal, 2002, 21, 5673-5681.	7.8	95
52	Phospholipid-assisted Refolding of an Integral Membrane Protein. Journal of Biological Chemistry, 1999, 274, 12339-12345.	3.4	125
53	Lipid-assisted Protein Folding. Journal of Biological Chemistry, 1999, 274, 36827-36830.	3.4	189
54	Phospholipid-assisted protein folding: phosphatidylethanolamine is required at a late step of the conformational maturation of the polytopic membrane protein lactose permease. EMBO Journal, 1998, 17, 5255-5264.	7.8	149

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55	A Phospholipid Acts as a Chaperone in Assembly of a Membrane Transport Protein. Journal of Biological Chemistry, 1996, 271, 11615-11618.	3.4	188
56	Phosphatidylethanolamine Is Required for in Vivo Function of the Membrane-associated Lactose Permease of Escherichia coli. Journal of Biological Chemistry, 1995, 270, 732-739.	3.4	138
57	Toward a Topology-Based Therapeutic Design of Membrane Proteins: Validation of NaPi2b Topology in Live Ovarian Cancer Cells. Frontiers in Molecular Biosciences, 0, 9, .	3.5	0