

John E Baenziger

List of Publications by Year in descending order

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2,220
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172457

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65
docs citations

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times ranked

1492
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Membrane Lipid Composition on the Conformational Equilibria of the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2000, 275, 777-784.	3.4	134
2	Lipid-Protein Interactions at the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2002, 277, 201-208.	3.4	108
3	Gating of Pentameric Ligand-Gated Ion Channels: Structural Insights and Ambiguities. <i>Structure</i> , 2013, 21, 1271-1283.	3.3	101
4	A Lipid-dependent Uncoupled Conformation of the Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2009, 284, 17819-17825.	3.4	100
5	A distinct mechanism for activating uncoupled nicotinic acetylcholine receptors. <i>Nature Chemical Biology</i> , 2013, 9, 701-707.	8.0	89
6	Fourier Transform Infrared and Hydrogen/Deuterium Exchange Reveal an Exchange-resistant Core of α -Helical Peptide Hydrogens in the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 1995, 270, 29129-29137.	3.4	76
7	Fourier transform infrared difference spectroscopy of the nicotinic acetylcholine receptor: evidence for specific protein structural changes upon desensitization. <i>Biochemistry</i> , 1993, 32, 5448-5454.	2.5	72
8	Secondary Structure Analysis of Individual Transmembrane Segments of the Nicotinic Acetylcholine Receptor by Circular Dichroism and Fourier Transform Infrared Spectroscopy. <i>Journal of Biological Chemistry</i> , 1998, 273, 771-777.	3.4	72
9	3D structure and allosteric modulation of the transmembrane domain of pentameric ligand-gated ion channels. <i>Neuropharmacology</i> , 2011, 60, 116-125.	4.1	66
10	Incorporation of the nicotinic acetylcholine receptor into planar multilamellar films: characterization by fluorescence and Fourier transform infrared difference spectroscopy. <i>Biophysical Journal</i> , 1992, 61, 983-992.	0.5	64
11	Thermal stabilization of a single-chain Fv antibody fragment by introduction of a disulphide bond. <i>FEBS Letters</i> , 1995, 377, 135-139.	2.8	64
12	Nicotinic acetylcholine receptor-lipid interactions: Mechanistic insight and biological function. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1806-1817.	2.6	63
13	Anionic Lipids Allosterically Modulate Multiple Nicotinic Acetylcholine Receptor Conformational Equilibria. <i>Journal of Biological Chemistry</i> , 2009, 284, 33841-33849.	3.4	54
14	Phosphatidic Acid and Phosphatidylserine Have Distinct Structural and Functional Interactions with the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2004, 279, 14967-14974.	3.4	53
15	Structure of both the ligand- and lipid-dependent channel-inactive states of the nicotinic acetylcholine receptor probed by FTIR spectroscopy and hydrogen exchange. <i>Biochemistry</i> , 1995, 34, 15142-15149.	2.5	52
16	Secondary Structure of the Nicotinic Acetylcholine Receptor: Implications for Structural Models of a Ligand-Gated Ion Channel. <i>Biochemistry</i> , 1994, 33, 7709-7717.	2.5	49
17	A rapid method for assessing lipid:protein and detergent:protein ratios in membrane-protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 77-83.	2.5	47
18	Structural Effects of Neutral and Anionic Lipids on the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 1996, 271, 24590-24597.	3.4	46

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19	Average structural and motional properties of a diunsaturated acyl chain in a lipid bilayer: effects of two cis-unsaturated double bonds. <i>Biochemistry</i> , 1991, 30, 894-903.	2.5	43
20	A lipid site shapes the agonist response of a pentameric ligand-gated ion channel. <i>Nature Chemical Biology</i> , 2019, 15, 1156-1164.	8.0	43
21	Desensitization of the Nicotinic Acetylcholine Receptor Mainly Involves a Structural Change in Solvent-Accessible Regions of the Polypeptide Backbone. <i>Biochemistry</i> , 1997, 36, 3617-3624.	2.5	39
22	Lipid Composition Alters Drug Action at the Nicotinic Acetylcholine Receptor. <i>Molecular Pharmacology</i> , 2008, 73, 880-890.	2.3	39
23	Molecular motions and dynamics of a diunsaturated acyl chain in a lipid bilayer: implications for the role of polyunsaturation in biological membranes. <i>Biochemistry</i> , 1992, 31, 3377-3385.	2.5	38
24	Intramembrane Aromatic Interactions Influence the Lipid Sensitivities of Pentameric Ligand-gated Ion Channels. <i>Journal of Biological Chemistry</i> , 2015, 290, 2496-2507.	3.4	38
25	Ion channels as lipid sensors: from structures to mechanisms. <i>Nature Chemical Biology</i> , 2020, 16, 1331-1342.	8.0	38
26	The role of the M4 lipid-sensor in the folding, trafficking, and allosteric modulation of nicotinic acetylcholine receptors. <i>Neuropharmacology</i> , 2015, 96, 157-168.	4.1	35
27	Structural Sensitivity of a Prokaryotic Pentameric Ligand-gated Ion Channel to Its Membrane Environment. <i>Journal of Biological Chemistry</i> , 2013, 288, 11294-11303.	3.4	34
28	Structure of the Pore-forming Transmembrane Domain of a Ligand-gated Ion Channel. <i>Journal of Biological Chemistry</i> , 2001, 276, 23726-23732.	3.4	33
29	Secondary Structure of the Exchange-Resistant Core from the Nicotinic Acetylcholine Receptor Probed Directly by Infrared Spectroscopy and Hydrogen/Deuterium Exchange. <i>Biochemistry</i> , 1998, 37, 14815-14822.	2.5	31
30	Internal Dynamics of the Nicotinic Acetylcholine Receptor in Reconstituted Membranes. <i>Biochemistry</i> , 1999, 38, 4905-4911.	2.5	29
31	Role of the Fourth Transmembrane \pm Helix in the Allosteric Modulation of Pentameric Ligand-Gated Ion Channels. <i>Structure</i> , 2015, 23, 1655-1664.	3.3	29
32	Heterogeneity in the sn-1 carbon chain of platelet-activating factor glycerophospholipids determines pro- or anti-apoptotic signaling in primary neurons. <i>Journal of Lipid Research</i> , 2008, 49, 2250-2258.	4.2	28
33	Structural characterization of the osmosensor ProP. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1108-1115.	2.6	25
34	The M4 Transmembrane \pm -Helix Contributes Differently to Both the Maturation and Function of Two Prokaryotic Pentameric Ligand-gated Ion Channels. <i>Journal of Biological Chemistry</i> , 2015, 290, 25118-25128.	3.4	25
35	The Role of Cholesterol in the Activation of Nicotinic Acetylcholine Receptors. <i>Current Topics in Membranes</i> , 2017, 80, 95-137.	0.9	25
36	Role of Glycosylation and Membrane Environment in Nicotinic Acetylcholine Receptor Stability. <i>Biophysical Journal</i> , 2005, 88, 1755-1764.	0.5	24

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37	Structural basis for the modulation of pentameric ligand-gated ion channel function by lipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183304.	2.6	24
38	A Structure-Based Approach to Nicotinic Receptor Pharmacology. <i>Molecular Pharmacology</i> , 1999, 55, 348-355.	2.3	24
39	Biosynthesis and characterization of a series of deuterated cis,cis-octadeca-6,9-dienoic acids. <i>Chemistry and Physics of Lipids</i> , 1990, 54, 17-23.	3.2	21
40	A Conformational Intermediate between the Resting and Desensitized States of the Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2001, 276, 4796-4803.	3.4	21
41	Dissecting the Chemistry of Nicotinic Receptor-Ligand Interactions with Infrared Difference Spectroscopy. <i>Journal of Biological Chemistry</i> , 2002, 277, 10420-10426.	3.4	20
42	Expression, Purification, and Structural Characterization of CfrA, a Putative Iron Transporter from <i>Campylobacter jejuni</i> . <i>Journal of Bacteriology</i> , 2008, 190, 5650-5662.	2.2	20
43	An allosteric link connecting the lipid-protein interface to the gating of the nicotinic acetylcholine receptor. <i>Scientific Reports</i> , 2018, 8, 3898.	3.3	19
44	Molecular mechanisms of acetylcholine receptor-lipid interactions: from model membranes to human biology. <i>Biophysical Reviews</i> , 2013, 5, 1-9.	3.2	16
45	Pentameric ligand-gated ion channels exhibit distinct transmembrane domain archetypes for folding/expression and function. <i>Scientific Reports</i> , 2017, 7, 450.	3.3	16
46	The selective enhancement and subsequent subtraction of atmospheric water vapour contributions from Fourier transform infrared spectra of proteins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1996, 52, 1347-1356.	3.9	15
47	Cations Mediate Interactions between the Nicotinic Acetylcholine Receptor and Anionic Lipids. <i>Biophysical Journal</i> , 2010, 98, 989-998.	0.5	15
48	Direct measurement of deuterium-deuterium dipolar coupling and analysis of the ordering of a specifically deuterated diunsaturated lipid. <i>Journal of the American Chemical Society</i> , 1988, 110, 8229-8231.	13.7	14
49	Phospholipase C Activity Affinity Purifies with the Torpedo Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2010, 285, 10337-10343.	3.4	13
50	Biosynthesis of a specifically deuterated diunsaturated fatty acid (18:2.DELTA.6,9) for deuterium NMR membrane studies. <i>Biochemistry</i> , 1987, 26, 8405-8410.	2.5	12
51	The Net Orientation of Nicotinic Receptor Transmembrane α -Helices in the Resting and Desensitized States. <i>Biophysical Journal</i> , 2006, 91, 705-714.	0.5	11
52	Probing the structure of the uncoupled nicotinic acetylcholine receptor. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 146-154.	2.6	11
53	The functional role of the α 4 transmembrane helix in the muscle nicotinic acetylcholine receptor probed through mutagenesis and coevolutionary analyses. <i>Journal of Biological Chemistry</i> , 2020, 295, 11056-11067.	3.4	8
54	Structural characterization and agonist binding to human α 4 β 2 nicotinic receptors. <i>Biochemical and Biophysical Research Communications</i> , 2011, 407, 456-460.	2.1	7

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55	Functional characterization of two prokaryotic pentameric ligand-gated ion channel chimeras – role of the GLIC transmembrane domain in proton sensing. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 218-227.	2.6	7
56	Recent Insight into Lipid Binding and Lipid Modulation of Pentameric Ligand-Gated Ion Channels. <i>Biomolecules</i> , 2022, 12, 814.	4.0	7
57	Preparation of reconstituted acetylcholine receptor membranes suitable for AFM imaging of lipid–protein interactions. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 117-126.	3.2	6
58	Anesthetic-induced structural changes in the nicotinic acetylcholine receptor. <i>Toxicology Letters</i> , 1998, 100-101, 179-183.	0.8	4
59	Effects of Lipids on the Structure and Function of GLIC and ELIC. <i>Biophysical Journal</i> , 2013, 104, 219a.	0.5	1
60	IUPAB 2021 Symposium 13: ion channels and membrane transporters. <i>Biophysical Reviews</i> , 2021, 13, 871-873.	3.2	1
61	Distinct functional roles for the M4 \pm -helix from each homologous subunit in the heteropentameric ligand-gated ion channel nAChR. <i>Journal of Biological Chemistry</i> , 2022, 298, 102104.	3.4	1
62	Biophysics in Canada. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1479-1482.	2.3	0
63	Membrane Receptor–Ligand Interactions Probed by Attenuated Total Reflectance Infrared Difference Spectroscopy. , 2005, , 325-352.		0