Derek Marsh

List of Publications by Year
in descending order

253 papers	14,449 citations	18465 62 h-index	25770 108 g-index
254 all docs	254 docs citations	254 times ranked	8394 citing authors

#	Article	IF	Citations
1	Lateral pressure in membranes. BBA - Biomembranes, 1996, 1286, 183-223.	7.9	935
2	Structural characterization of copper(II) binding to Â-synuclein: Insights into the bioinorganic chemistry of Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4294-4299.	3.3	364
3	Calorimetric studies of the gel-fluid (L.beta.-L.alpha.) and lamellar-inverted hexagonal (L.alpha.-HII) phase transitions in dialkyl- and diacylphosphatidylethanolamines. Biochemistry, 1983, 22, 1280-1289.	1.2	313
4	Different Membrane Anchoring Positions of Tryptophan and Lysine in Synthetic Transmembrane Î±-Helical Peptides. Journal of Biological Chemistry, 1999, 274, 20839-20846.	1.6	298
5	Protein modulation of lipids, and vice-versa, in membranes. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1545-1575.	1.4	288
6	Elastic curvature constants of lipid monolayers and bilayers. Chemistry and Physics of Lipids, 2006, 144, 146-159.	1.5	287
7	Lateral Pressure Profile, Spontaneous Curvature Frustration, and the Incorporation and Conformation of Proteins in Membranes. Biophysical Journal, 2007, 93, 3884-3899.	0.2	285
8	Cholesterol-induced fluid membrane domains: A compendium of lipid-raft ternary phase diagrams. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2114-2123.	1.4	284
9	X-ray diffraction study of the polymorphism of hydrated diacyl and dialkylphosphatidylethanolamines. Biochemistry, 1984, 23, 2634-2644.	1.2	277
10	Influence of Lipid/Peptide Hydrophobic Mismatch on the Thickness of Diacylphosphatidylcholine Bilayers. A 2H NMR and ESR Study Using Designed Transmembrane Î±-Helical Peptides and Gramicidin A. Biochemistry, 1998, 37, 9333-9345.	1.2	248
11	Structure, dynamics and composition of the lipid-protein interface. Perspectives from spin-labelling. BBA - Biomembranes, 1998, 1376, 267-296.	7.9	239
12	Titration of the phase transition of phosphatidylserine bilayer membranes. Effects of pH, surface electrostatics, ion binding, and head-group hydration. Biochemistry, 1981, 20, 4955-4965.	1.2	236
13	Evidence for phase boundary lipid. Permeability of tempo-choline into dimyristoylphosphatidylcholine vesicles at the phase transition. Biochemistry, 1976, 15, 3570-3578.	1.2	226
14	Lipid membranes with grafted polymers: physicochemical aspects. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1615, 33-59.	1.4	198
15	Liquid-ordered phases induced by cholesterol: A compendium of binary phase diagrams. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 688-699.	1.4	188
16	Phase diagrams of lipid mixtures relevant to the study of membrane rafts. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2008, 1781, 665-684.	1.2	186
17	Molecular motion in phospholipid bilayers in the gel phase: long axis rotation. Biochemistry, 1980, 19, 1632-1637.	1.2	175
18	Protein rotational diffusion and lipid/protein interactions in recombinants of bovine rhodopsin with saturated diacylphosphatidylcholines of different chain lengths studied by conventional and saturation-transfer electron spin resonance. Biochemistry, 1992, 31, 7511-7518.	1.2	175

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19	Rhodopsin-lipid associations in bovine rod outer segment membranes. Identification of immobilized lipid by spin-labels. Biochemistry, 1979, 18, 5006-5013.	1.2	170
20	Spin-label studies of lipid immobilization in dimyristoylphosphatidiylcholine-substituted cytochrome oxidase. Biochemistry, 1979, 18, 4480-4487.	1.2	170
21	Incorporation of ganglioside analogs into fibroblast cell membranes. A spin-label study. Biochemistry, 1983, 22, 5041-5048.	1.2	160
22	General features of phospholipid phase transitions. Chemistry and Physics of Lipids, 1991, 57, 109-120.	1.5	155
23	Interactions of Hydrophobic Lung Surfactant Proteins SP-B and SP-C with Dipalmitoylphosphatidylcholine and Dipalmitoylphosphatidylglycerol Bilayers Studied by Electron Spin Resonance Spectroscopy. Biochemistry, 1995, 34, 3964-3971.	1.2	155
24	Interaction of Cholesterol with Sphingomyelin in Mixed Membranes Containing Phosphatidylcholine, Studied by Spin-Label ESR and IR Spectroscopies. A Possible Stabilization of Gel-Phase Sphingolipid Domains by Cholesterol. Biochemistry, 2001, 40, 2614-2622.	1.2	146
25	Characterization of dimyristoylphosphatidylcholine vesicles and their dimensional changes through the phase transition: molecular control of membrane morphology. Biochemistry, 1978, 17, 1792-1801.	1.2	129
26	Orientation of the Infrared Transition Moments for an Î±-Helix. Biophysical Journal, 2000, 78, 2499-2510.	0.2	129
27	Charge-induced tilt in ordered-phase phosphatidylglycerol bilayers Evidence from x-ray diffraction. Biochimica Et Biophysica Acta - Biomembranes, 1981, 645, 91-96.	1.4	126
28	Binding of Peripheral Proteins to Mixed Lipid Membranes: Effect of Lipid Demixing upon Binding. Biophysical Journal, 1999, 76, 2575-2586.	0.2	124
29	Water Concentration Profiles in Membranes Measured by ESEEM of Spin-Labeled Lipids. Journal of Physical Chemistry B, 2005, 109, 12003-12013.	1.2	116
30	Gel-to-inverted hexagonal (LÎ²-HII) phase transitions in phosphatidylethanolamines and fatty acid-phosphatidylcholine mixtures, demonstrated by 31P-NMR spectroscopy and X-ray diffraction. Biochimica Et Biophysica Acta - Biomembranes, 1982, 690, 117-123.	1.4	112
31	Lipid Membrane Polarity Profiles by High-Field EPR. Biophysical Journal, 2003, 85, 1025-1033.	0.2	108
32	Spin-label studies of head-group specificity in the interaction of phospholipids with yeast cytochrome oxidase. Biochemistry, 1981, 20, 5888-5894.	1.2	103
33	Î±-Synuclein Association with Phosphatidylglycerol Probed by Lipid Spin Labelsâ€. Biochemistry, 2003, 42, 12919-12926.	1.2	101
34	Phase Diagram of Ternary Cholesterol/Palmitoylsphingomyelin/Palmitoyloleoyl-Phosphatidylcholine Mixtures: Spin-Label EPR Study of Lipid-Raft Formation. Biophysical Journal, 2012, 102, 1856-1865.	0.2	101
35	Cytochrome c-lipid interactions studied by resonance Raman and phosphorus-31 NMR spectroscopy. Correlation between the conformational changes of the protein and the lipid bilayer. Biochemistry, 1991, 30, 9084-9089.	1.2	99
36	Energetics of Hydrophobic Matching in Lipid-Protein Interactions. Biophysical Journal, 2008, 94, 3996-4013.	0.2	98

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37	Peptide models for membrane channels. Biochemical Journal, 1996, 315, 345-361.	1.7	97
38	Interfacial ionization and partitioning of membrane-bound local anaesthetics. Biochimica Et Biophysica Acta - Biomembranes, 1992, 1103, 62-68.	1.4	94
39	Induction of the lamellar-inverted hexagonal phase transition in cardiolipin by protons and monovalent cations. Biochimica Et Biophysica Acta - Biomembranes, 1983, 734, 347-352.	1.4	91
40	Stoichiometry and specificity of lipid-protein interaction with myelin proteolipid protein studied by spin-label electron spin resonance. Biochemistry, 1984, 23, 860-865.	1.2	86
41	Binary phase diagram of hydrated dimyristoylglycerol-dimyristoylphosphatidylcholine mixtures. Biophysical Journal, 1992, 63, 1369-1378.	0.2	84
42	Apocytochrome c binding to negatively charged lipid dispersions studied by spin-label electron spin resonance. Biochemistry, 1986, 25, 2904-2910.	1.2	83
43	Evidence for a common structure for a class of membrane channels. FEBS Journal, 1993, 213, 21-30.	0.2	82
44	Domain Formation in Sphingomyelin/Cholesterol Mixed Membranes Studied by Spin-Label Electron Spin Resonance Spectroscopyâ€. Biochemistry, 2005, 44, 4911-4918.	1.2	81
45	Non-electrostatic contribution to the titration of the ordered-fluid phase transition of phosphatidylglycerol bilayers. FEBS Letters, 1980, 120, 267-270.	1.3	80
46	Spin-label studies of lipid-protein interactions in sodium-potassium ATPase membranes from rectal glands of Squalus acanthias. Biochemistry, 1985, 24, 1386-1393.	1.2	78
47	Spin-label studies on the specificity of interaction of cardiolipin with beef heart cytochrome oxidase. Biochemistry, 1987, 26, 8138-8145.	1.2	78
48	Spin-label studies on the origin of the specificity of lipid-protein interactions in sodium-potassium ATPase membranes from Squalus acanthias. Biochemistry, 1985, 24, 3572-3578.	1.2	77
49	Polymorphic phase behavior of cardiolipin derivatives studied by phosphorus-31 NMR and x-ray diffraction. Biochemistry, 1985, 24, 2902-2908.	1.2	76
50	Phosphatidylcholineâ€“fatty acid membranes: effects of headgroup hydration on the phase behaviour and structural parameters of the gel and inverse hexagonal (HII) phases. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1327, 131-147.	1.4	76
51	Membrane water-penetration profiles from spin labels. European Biophysics Journal, 2002, 31, 559-562.	1.2	76
52	The proteinâ€“lipid interface: perspectives from magnetic resonance and crystal structures. Biochimica Et Biophysica Acta - Biomembranes, 2004, 1666, 118-141.	1.4	76
53	Interaction of Bee Venom Melittin with Zwitterionic and Negatively Charged Phospholipid Bilayers. Biophysical Journal, 1997, 72, 767-778.	0.2	75
54	Exchange rates at the lipid-protein interface of myelin proteolipid protein studied by spin-label electron spin resonance. Biochemistry, 1988, 27, 46-52.	1.2	74

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55	Lipid-protein interactions in membranes. FEBS Letters, 1990, 268, 371-375.	1.3	74
56	Activation of beef-heart cytochrome c oxidase by cardiolipin and analogues of cardiolipin. Biochimica Et Biophysica Acta - Bioenergetics, 1990, 1020, 34-42.	0.5	74
57	Molecular exchange at the lipid-rhodopsin interface: spin-label electron spin resonance studies of rhodopsin-dimyristoylphosphatidylcholine recombinants. Biochemistry, 1987, 26, 3234-3240.	1.2	71
58	Thermodynamics of Phospholipid Self-Assembly. Biophysical Journal, 2012, 102, 1079-1087.	0.2	68
59	Investigations on the insertion of the mitochondrial precursor protein apocytochrome c into model membranes. Biochimica Et Biophysica Acta - Biomembranes, 1985, 818, 398-409.	1.4	67
60	Membrane Location of Spin-Labeled Cytochrome c Determined by Paramagnetic Relaxation Agents. Biochemistry, 2000, 39, 6066-6074.	1.2	65
61	Quantitation of Secondary Structure in ATR Infrared Spectroscopy. Biophysical Journal, 1999, 77, 2630-2637.	0.2	64
62	Time-resolved electron spin resonance studies of spin-labelled lipids in membranes. Chemistry and Physics of Lipids, 2006, 141, 142-157.	1.5	64
63	Electron spin resonance in membrane research: proteinâ€“lipid interactions from challenging beginnings to state of the art. European Biophysics Journal, 2010, 39, 513-525.	1.2	63
64	Stoichiometry of lipid-protein interaction and integral membrane protein structure. European Biophysics Journal, 1997, 26, 203-208.	1.2	61
65	Librational Motion of Spin-Labeled Lipids in High-Cholesterol Containing Membranes from Echo-Detected EPR Spectra. Biophysical Journal, 2004, 87, 3873-3881.	0.2	61
66	Lipid Membrane Expansion and Micelle Formation by Polymer-Grafted Lipids: Scaling with Polymer Length Studied by Spin-Label Electron Spin Resonance. Biophysical Journal, 2001, 80, 1372-1383.	0.2	60
67	Oxygen Permeation Profile in Lipid Membranes: Comparison with Transmembrane Polarity Profile. Biophysical Journal, 2003, 85, 1005-1012.	0.2	60
68	Spin-label answers to lipid-protein interactions. Trends in Biochemical Sciences, 1983, 8, 330-333.	3.7	56
69	Comment on Interpretation of Mechanochemical Properties of Lipid Bilayer Vesicles from the Equation of State or Pressureâ^'Area Measurement of the Monolayer at the Airâ^'Water or Oilâ^'Water Interface. Langmuir, 2006, 22, 2916-2919.	1.6	56
70	Influence of lipid headgroup on the specificity and exchange dynamics in lipid-protein interactions. A spin-label study of myelin proteolipid apoprotein-phospholipid complexes. Biochemistry, 1988, 27, 5296-5304.	1.2	55
71	Spin-Label EPR for Determining Polarity and Proticity in Biomolecular Assemblies: Transmembrane Profiles. Applied Magnetic Resonance, 2010, 37, 435-454.	0.6	55
72	Head group and chain length dependence of phospholipid self-assembly studied by spin-label electron spin resonance. Biochemistry, 1987, 26, 1224-1231.	1.2	54

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73	Effect of acyl chain composition on salt-induced lamellar to inverted hexagonal phase transitions in cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 1989, 980, 389-392.	1.4	54
74	Spin-label ESR studies of lipid-protein interactions in thylakoid membranes. Biochemistry, 1989, 28, 7446-7452.	1.2	54
75	Lipid chain motion in an interdigitated gel phase: conventional and saturation transfer ESR of spin-labeled lipids in dipalmitoylphosphatidylcholine-glycerol dispersions. Biochemistry, 1993, 32, 274-281.	1.2	54
76	Elastic Constants of Polymer-Grafted Lipid Membranes. Biophysical Journal, 2001, 81, 2154-2162.	0.2	54
77	Lipid mobility and order in bovine rod outer segment disk membranes. A spin-label study of lipid-protein interactions. Biochemistry, 1987, 26, 29-39.	1.2	53
78	Electron spin resonance in membrane research: Proteinâ€“lipid interactions. Methods, 2008, 46, 83-96.	1.9	53
79	Curvature Elasticity and Refolding of OmpA in Large Unilamellar Vesicles. Biophysical Journal, 2006, 91, L75-L77.	0.2	52
80	TOAC Spin Labels in the Backbone of Alamethicin: EPR Studies in Lipid Membranes. Biophysical Journal, 2007, 92, 473-481.	0.2	52
81	Analysis of the chainlength dependence of lipid phase transition temperatures: Main and pretransitions of phosphatidylcholines; main and non-lamellar transitions of phosphatidylethanolamines. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1062, 1-6.	1.4	51
82	Lipid Chain Dynamics and Molecular Location of Diacylglycerol in Hydrated Binary Mixtures with Phosphatidylcholine:â€‰ Spin Label ESR Studies. Biochemistry, 1996, 35, 3831-3836.	1.2	51
83	Lateral order in gel, subgel and crystalline phases of lipid membranes: Wide-angle X-ray scattering. Chemistry and Physics of Lipids, 2012, 165, 59-76.	1.5	51
84	Association of spin-labelled cardiolipin with dimyristoylphosphatidylcholine-substituted bovine heart cytochrome c oxidase. A generalized specificity increase rather than highly specific binding sites. Biochimica Et Biophysica Acta - Biomembranes, 1985, 816, 191-194.	1.4	50
85	Lipid Chain-Length Dependence for Incorporation of Alamethicin in Membranes: Electron Paramagnetic Resonance Studies on TOAC-Spin Labeled Analogs. Biophysical Journal, 2007, 92, 4002-4011.	0.2	50
86	Spin label ESR and 31P-NMR studies of the cubic and inverted hexagonal phases of dimyristoylphosphatidylcholine/myristic acid (1:2, mol/mol) mixtures. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1024, 89-94.	1.4	49
87	Echo-Detected Electron Paramagnetic Resonance Spectra of Spin-Labeled Lipids in Membrane Model Systems. Journal of Physical Chemistry B, 2004, 108, 4501-4507.	1.2	49
88	Dynamic structure and phase behavior of dimyristoylphosphatidylethanolamine bilayers studied by deuterium nuclear magnetic resonance. Biochemistry, 1983, 22, 3023-3026.	1.2	48
89	Lipid-protein interactions in ADP-ATP carrier/egg phosphatidylcholine recombinants studied by spin-label ESR spectroscopy. Biochemistry, 1990, 29, 10664-10669.	1.2	48
90	Lipid-protein interactions and heterogeneous lipid distribution in membranes. Molecular Membrane Biology, 1995, 12, 59-64.	2.0	48

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91	Molecular volumes of phospholipids and glycolipids in membranes. Chemistry and Physics of Lipids, 2010, 163, 667-677.	1.5	48
92	Molecular and Mesoscopic Properties of Hydrophilic Polymer-Grafted Phospholipids Mixed with Phosphatidylcholine in Aqueous Dispersion: Interaction of Dipalmitoyl N-Poly(Ethylene Glycol) Phosphatidylethanolamine with Dipalmitoylphosphatidylcholine Studied by Spectrophotometry and Spin-Label Electron Spin Resonance. Biophysical Journal, 2000, 78, 1420-1430.	0.2	47
93	Interaction of human serum albumin with membranes containing polymer-grafted lipids: spin-label ESR studies in the mushroom and brush regimes. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 237-242.	1.4	46
94	Orientation of Î²-Barrel Proteins OmpA and FhuA in Lipid Membranes. Chain Length Dependence from Infrared Dichroismâ€. Biochemistry, 2005, 44, 3515-3523.	1.2	46
95	High-field electron spin resonance of spin labels in membranes. Chemistry and Physics of Lipids, 2002, 116, 93-114.	1.5	45
96	Association of Î±-Synuclein and Mutants with Lipid Membranes:â€‰ Spin-Label ESR and Polarized IR. Biochemistry, 2006, 45, 3386-3395.	1.2	45
97	Structural and thermodynamic determinants of chain-melting transition temperatures for phospholipid and glycolipids membranes. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 40-51.	1.4	45
98	Selectivity of interaction of phospholipids with bovine spinal cord myelin basic protein studied by spin-label electron spin resonance. Biochemistry, 1989, 28, 9699-9707.	1.2	44
99	Membrane Elastic Fluctuations and the Insertion and Tilt of Î²-Barrel Proteins. Biophysical Journal, 2006, 91, 227-232.	0.2	44
100	Preferential association of apocytochrome c with negatively charged phospholipids in mixed model membranes. Biochimica Et Biophysica Acta - Biomembranes, 1986, 858, 38-46.	1.4	43
101	Thermodynamic and structural properties of phosphatidylserine bilayer membranes in the presence of lithium ions and protons. Biochimica Et Biophysica Acta - Biomembranes, 1985, 814, 141-150.	1.4	42
102	Intramembrane Polarity by Electron Spin Echo Spectroscopy of Labeled Lipids. Biophysical Journal, 2003, 84, 1025-1030.	0.2	42
103	Experimental Methods in Spin-Label Spectral Analysis. Biological Magnetic Resonance, 1989, , 255-303.	0.4	42
104	Prediction of the critical micelle concentrations of mono- and di-acyl phospholipids. Chemistry and Physics of Lipids, 1986, 42, 271-277.	1.5	41
105	Orientation and Lipid-Peptide Interactions of Gramicidin A in Lipid Membranes: Polarized Attenuated Total Reflection Infrared Spectroscopy and Spin-Label Electron Spin Resonance. Biophysical Journal, 2004, 86, 1521-1531.	0.2	41
106	Integration of a K+ Channel-Associated Peptide in a Lipid Bilayer: Conformation, Lipid-Protein Interactions, and Rotational Diffusion. Biochemistry, 1995, 34, 3893-3898.	1.2	40
107	Peptides Modeled on the Transmembrane Region of the Slow Voltage-Gated IsK Potassium Channel:Â Structural Characterization of Peptide Assemblies in the Î²-Strand Conformationâ€. Biochemistry, 1996, 35, 16213-16221.	1.2	40
108	Spin-label ESR of bacteriophage M13 coat protein in mixed lipid bilayers. Characterization of molecular selectivity of charged phospholipids for the bacteriophage M13 coat protein in lipid bilayers. Biochemistry, 1989, 28, 9995-10001.	1.2	39

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109	Fatty acid pH titration and the selectivity of interaction with extrinsic proteins in dimyristoylphosphatidylglycerol dispersions. Spin label ESR studies. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1021, 63-69.	1.4	39
110	Chapter 6 Protein-lipid interactions with peripheral membrane proteins. New Comprehensive Biochemistry, 1993, 25, 127-162.	0.1	39
111	Backbone Dynamics of Alamethicin Bound to Lipid Membranes: Spin-Echo Electron Paramagnetic Resonance of TOAC-Spin Labels. Biophysical Journal, 2008, 94, 2698-2705.	0.2	39
112	Selectivity of lipid-protein interactions. Journal of Bioenergetics and Biomembranes, 1987, 19, 677-689.	1.0	38
113	Stoichiometry, selectivity, and exchange dynamics of lipid-protein interaction with bacteriophage M13 coat protein studied by spin label electron spin resonance. Effects of protein secondary structure. Biochemistry, 1992, 31, 2670-2677.	1.2	38
114	The state of the lipids in the purple membrane of halobacterium cutirubrum as seen by 31P NMR. Biochemical and Biophysical Research Communications, 1981, 100, 105-110.	1.0	37
115	Lipid-Protein Interactions and Assembly of the 16-kDa Channel Polypeptide from Nephrops norvegicus. Studies with Spin-Label Electron Spin Resonance Spectroscopy and Electron Microscopy. Biochemistry, 1995, 34, 9211-9218.	1.2	37
116	Interaction of .alpha.-Lactalbumin with Phosphatidylglycerol. Influence of Protein Binding on the Lipid Phase Transition and Lipid Acyl Chain Mobility. Biochemistry, 1995, 34, 13139-13145.	1.2	37
117	Influence of polar residue deletions on lipid-protein interactions with the myelin proteolipid protein. Spin-label ESR studies with DM-20/lipid recombinants. Biochemistry, 1990, 29, 2635-2638.	1.2	36
118	Derivatised lipids in membranes. Physico-chemical aspects of N-biotinyl phosphatidylethanolamines, N-acyl phosphatidylethanolamines and N-acyl ethanolamines. Chemistry and Physics of Lipids, 2000, 105, 43-69.	1.5	36
119	Infrared Dichroism from the X-Ray Structure of Bacteriorhodopsin. Biophysical Journal, 2001, 80, 305-312.	0.2	36
120	Electron spin-echo studies of spin-labelled lipid membranes and free fatty acids interacting with human serum albumin. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1541-1549.	1.4	36
121	Orientation and Peptideâ”Lipid Interactions of Alamethicin Incorporated in Phospholipid Membranes: Polarized Infrared and Spin-Label EPR Spectroscopy. Biochemistry, 2009, 48, 729-737.	1.2	36
122	Distance measurements using paramagnetic ion-induced relaxation in the saturation transfer electron spin resonance of spin-labeled biomolecules. Biophysical Journal, 1992, 61, 1595-1602.	0.2	35
123	Interaction of a Peptide Derived from Glycoprotein gp36 of Feline Immunodeficiency Virus and Its Lipoylated Analogue with Phospholipid Membranes. Biochemistry, 2008, 47, 5317-5327.	1.2	35
124	Saturation-transfer electron spin resonance studies on the mobility of spin-labeled sodium and potassium ion activated adenosine triphosphatase in membranes from Squalus acanthias. Biochemistry, 1987, 26, 8675-8683.	1.2	34
125	Lipidâ€“protein interactions with the Na,K-ATPase. Chemistry and Physics of Lipids, 2006, 141, 94-104.	1.5	34
126	Reaction fields and solvent dependence of the EPR parameters of nitroxides: The microenvironment of spin labels. Journal of Magnetic Resonance, 2008, 190, 60-67.	1.2	34

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127	Tilt, Twist, and Coiling in Î²-Barrel Membrane Proteins: Relation to Infrared Dichroism. Biophysical Journal, 2001, 80, 2789-2797.	0.2	33
128	Spin-label electron spin resonance study of bacteriophage M13 coat protein incorporation into mixed lipid bilayers. Biochemistry, 1987, 26, 7571-7574.	1.2	32
129	Ganglioside-protein interactions: spin-label electron spin resonance studies with sodium-potassium ATPase membranes. Biochemistry, 1988, 27, 2398-2403.	1.2	32
130	Lateral Ordering of Lipid Chains in Cholesterol-Containing Membranes: High-Field Spin-Label EPR. Biophysical Journal, 2004, 86, 264-271.	0.2	32
131	Properties of cardiolipin and functional implications for cytochrome oxidase activity. Bioelectrochemistry, 1988, 20, 73-82.	1.0	31
132	Oxygen Profiles in Membranes. Biophysical Journal, 2006, 90, L49-L51.	0.2	31
133	Phase transition from a gel to a fluid phase of cubic symmetry in dimyristoylphosphatidylcholine/myristic acid (1:2, mol/mol) bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1990, 1025, 77-81.	1.4	30
134	Mitochondrial Presequence Inserts Differently into Membranes Containing Cardiolipin and Phosphatidylglycerol. Biochemistry, 1995, 34, 3605-3613.	1.2	30
135	Structural Integrity of the Membrane Domains in Extensively Trypsinized Na,K-ATPase from Shark Rectal Glands. Biochemistry, 1994, 33, 8044-8050.	1.2	29
136	A spin-label electron spin resonance study of the binding of mitochondrial creatine kinase to cardiolipin. FEBS Journal, 1989, 186, 415-419.	0.2	28
137	Selectivity of interaction of spin-labelled lipids with peripheral proteins bound to dimyristoylphosphatidylglycerol bilayers, as determined by ESR spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 1989, 986, 315-320.	1.4	28
138	Association of Spin-Labeled Lipids with Î²-Barrel Proteins from the Outer Membrane ofEscherichia coliâ€. Biochemistry, 2004, 43, 11630-11636.	1.2	28
139	Rotational motion of yeast cytochrome oxidase in phosphatidylcholine complexes studied by saturation-transfer electron spin resonance. Biochemistry, 1989, 28, 5634-5643.	1.2	27
140	Specificity of the interaction of amino- and carboxy-terminal fragments of the mitochondrial precursor protein apocytochrome c with negatively charged phospholipids. A spin-label electron spin resonance study. Biochemistry, 1989, 28, 8998-9005.	1.2	27
141	Analysis of the bilayer phase transition temperatures of phosphatidylcholines with mixed chains. Biophysical Journal, 1992, 61, 1036-1040.	0.2	27
142	Membrane Location of Spin-Labeled M13 Major Coat Protein Mutants Determined by Paramagnetic Relaxation Agents. Biochemistry, 1997, 36, 8261-8268.	1.2	26
143	Polarity Contributions to Hyperfine Splittings of Hydrogen-Bonded Nitroxidesâ€"The Microenvironment of Spin Labels. Journal of Magnetic Resonance, 2002, 157, 114-118.	1.2	26
144	SecA restricts, in a nucleotide-dependent manner, acyl chain mobility up to the center of a phospholipid bilayer. FEBS Letters, 1995, 358, 251-254.	1.3	25

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145	[4] Spin-label electron spin resonance and fourier transform infrared spectroscopy for structural/dynamic measurements on ion channels. Methods in Enzymology, 1999, 294, 59-92.	0.4	25
146	Polarity dependence of EPR parameters for TOAC and MTSSL spin labels: Correlation with DOXYL spin labels for membrane studies. Journal of Magnetic Resonance, 2008, 190, 211-221.	1.2	25
147	Interaction of Spin-Labeled Apocytochrome c and Spin-Labeled Cytochrome c with Negatively Charged Lipids Studied by Electron Spin Resonance. Biochemistry, 1994, 33, 7146-7156.	1.2	24
148	Membrane Assembly of the 16-kDa Proteolipid Channel fromNephrops norvegicusStudied by Relaxation Enhancements in Spin-Label ESRâ€. Biochemistry, 1999, 38, 14311-14319.	1.2	24
149	Infrared dichroism of twisted Î²-sheet barrels. The structure of E. coli outer membrane proteins. Journal of Molecular Biology, 2000, 297, 803-808.	2.0	24
150	Shifts in chain-melting transition temperature of liposomal membranes by polymer-grafted lipids. Biochimica Et Biophysica Acta - Biomembranes, 2003, 1614, 165-170.	1.4	24
151	Osmotic Stress and Viscous Retardation of the Na,K-ATPase Ion Pump. Biophysical Journal, 2008, 94, 2767-2776.	0.2	24
152	A novel spin-label for study of membrane protein rotational diffusion using saturation transfer electron spin resonance. Application to selectively labelled Class I and Class II -SH groups of the shark rectal gland Na+/K+-ATPase. Biochimica Et Biophysica Acta - Biomembranes, 1989, 978, 209-215.	1.4	23
153	Chapter 2 The nature of the lipid-protein interface and the influence of protein structure on protein-lipid interactions. New Comprehensive Biochemistry, 1993, , 41-66.	0.1	23
154	Characterization of the Secondary Structure and Assembly of the Transmembrane Domains of Trypsinized Na,K-ATPase by Fourier Transform Infrared Spectroscopy. Journal of Biological Chemistry, 1997, 272, 25685-25692.	1.6	23
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