John F Nagle

List of Publications by Year
in descending order

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186 papers	20,268 citations	10351 72 h-index	10424 139 g-index
189 all docs	189 docs citations	189 times ranked	9517 citing authors

#	Article	IF	Citations
1	Structure of lipid bilayers. BBA - Biomembranes, 2000, 1469, 159-195.	7.9	2,314
2	Structure of Fully Hydrated Fluid Phase Lipid Bilayers with Monounsaturated Chains. Journal of Membrane Biology, 2006, 208, 193-202.	1.0	715
3	Molecular mechanisms for proton transport in membranes.. Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 298-302.	3.3	597
4	Lecithin bilayers. Density measurement and molecular interactions. Biophysical Journal, 1978, 23, 159-175.	0.2	589
5	Structure of Fully Hydrated Fluid Phase DMPC and DLPC Lipid Bilayers Using X-Ray Scattering from Oriented Multilamellar Arrays and from Unilamellar Vesicles. Biophysical Journal, 2005, 88, 2626-2637.	0.2	531
6	Lipid Bilayer Structure Determined by the Simultaneous Analysis of Neutron and X-Ray Scattering Data. Biophysical Journal, 2008, 95, 2356-2367.	0.2	518
7	Theory of the Main Lipid Bilayer Phase Transition. Annual Review of Physical Chemistry, 1980, 31, 157-196.	4.8	504
8	X-ray structure determination of fully hydrated L alpha phase dipalmitoylphosphatidylcholine bilayers. Biophysical Journal, 1996, 70, 1419-1431.	0.2	454
9	Hydrogen bonded chain mechanisms for proton conduction and proton pumping. Journal of Membrane Biology, 1983, 74, 1-14.	1.0	374
10	Structure of Gel Phase DMPC Determined by X-Ray Diffraction. Biophysical Journal, 2002, 83, 3324-3335.	0.2	329
11	Area/lipid of bilayers from NMR. Biophysical Journal, 1993, 64, 1476-1481.	0.2	317
12	Structure and Interactions of Fully Hydrated Dioleoylphosphatidylcholine Bilayers. Biophysical Journal, 1998, 75, 917-925.	0.2	316
13	Structural Determinants of Water Permeability through the Lipid Membrane. Journal of General Physiology, 2008, 131, 69-76.	0.9	314
14	Temperature Dependence of Structure, Bending Rigidity, and Bilayer Interactions of Dioleoylphosphatidylcholine Bilayers. Biophysical Journal, 2008, 94, 117-124.	0.2	307
15	Effect of cholesterol on structural and mechanical properties of membranes depends on lipid chain saturation. Physical Review E, 2009, 80, 021931.	0.8	299
16	Theory of lipid monolayer and bilayer phase transitions: Effect of headgroup interactions. Journal of Membrane Biology, 1976, 27, 233-250.	1.0	270
17	Lipid bilayers: thermodynamics, structure, fluctuations, and interactions. Chemistry and Physics of Lipids, 2004, 127, 3-14.	1.5	264
18	Structure and Fluctuations of Charged Phosphatidylserine Bilayers in the Absence of Salt. Biophysical Journal, 2004, 86, 1574-1586.	0.2	263

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19	Measurement of chain tilt angle in fully hydrated bilayers of gel phase lecithins. Biophysical Journal, 1993, 64, 1097-1109.	0.2	259
20	Structure of fully hydrated bilayer dispersions. Biochimica Et Biophysica Acta - Biomembranes, 1988, 942, 1-10.	1.4	251
21	Interbilayer interactions from high-resolution x-ray scattering. Physical Review E, 1998, 57, 7014-7024.	0.8	247
22	Cholesterol Perturbs Lipid Bilayers Nonuniversally. Physical Review Letters, 2008, 100, 198103.	2.9	247
23	Fluid phase structure of EPC and DMPC bilayers. Chemistry and Physics of Lipids, 1998, 95, 83-94.	1.5	245
24	Structure of the fully hydrated gel phase of dipalmitoylphosphatidylcholine. Biophysical Journal, 1989, 55, 315-325.	0.2	240
25	Lattice Statistics of Hydrogen Bonded Crystals. I. The Residual Entropy of Ice. Journal of Mathematical Physics, 1966, 7, 1484-1491.	0.5	237
26	Theory of biomembrane phase transitions. Journal of Chemical Physics, 1973, 58, 252-264.	1.2	235
27	Simulation-Based Methods for Interpreting X-Ray Data from Lipid Bilayers. Biophysical Journal, 2006, 90, 2796-2807.	0.2	219
28	Diffuse scattering provides material parameters and electron density profiles of biomembranes. Physical Review E, 2004, 69, 040901.	0.8	209
29	Partial molecular volumes of lipids and cholesterol. Chemistry and Physics of Lipids, 2006, 143, 1-10.	1.5	206
30	Order and disorder in fully hydrated unoriented bilayers of gel-phase dipalmitoylphosphatidylcholine. Physical Review E, 1994, 49, 4665-4676.	0.8	204
31	Theory of hydrogen bonded chains in bioenergetics. Journal of Chemical Physics, 1980, 72, 3959-3971.	1.2	186
32	Theory of the structure factor of lipid bilayers. Physical Review E, 1994, 50, 5047-5060.	0.8	186
33	Order Parameters and Areas in Fluid-Phase Oriented Lipid Membranes Using Wide Angle X-Ray Scattering. Biophysical Journal, 2008, 95, 669-681.	0.2	186
34	Lipid bilayer structure. Current Opinion in Structural Biology, 2000, 10, 474-480.	2.6	184
35	Areas of Molecules in Membranes Consisting of Mixtures. Biophysical Journal, 2005, 89, 1827-1832.	0.2	175
36	Closer Look at Structure of Fully Hydrated Fluid Phase DPPC Bilayers. Biophysical Journal, 2006, 90, L83-L85.	0.2	165

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37	Determination of component volumes of lipid bilayers from simulations. Biophysical Journal, 1997, 72, 2237-2242.	0.2	153
38	Dilatometry and calorimetry of saturated phosphatidylethanolamine dispersions. Biochemistry, 1981, 20, 187-192.	1.2	152
39	Structure of gel phase saturated lecithin bilayers: temperature and chain length dependence. Biophysical Journal, 1996, 71, 885-891.	0.2	145
40	Method for obtaining structure and interactions from oriented lipid bilayers. Physical Review E, 2000, 63, 011907.	0.8	141
41	Swelling of phospholipids by monovalent salt. Journal of Lipid Research, 2006, 47, 302-309.	2.0	140
42	Introductory Lecture: Basic quantities in model biomembranes. Faraday Discussions, 2013, 161, 11-29.	1.6	136
43	Procedure for testing kinetic models of the photocycle of bacteriorhodopsin. Biophysical Journal, 1982, 38, 161-174.	0.2	134
44	New Series-Expansion Method for the Dimer Problem. Physical Review, 1966, 152, 190-197.	2.7	127
45	Small-angle x-ray scattering from lipid bilayers is well described by modified CaillÃ© theory but not by paracrystalline theory. Biophysical Journal, 1996, 70, 349-357.	0.2	126
46	Curvature Effect on the Structure of Phospholipid Bilayers. Langmuir, 2007, 23, 1292-1299.	1.6	124
47	Structure of the ripple phase in lecithin bilayers.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7008-7012.	3.3	123
48	Interpretation of Fluctuation Spectra in Lipid Bilayer Simulations. Biophysical Journal, 2011, 100, 2104-2111.	0.2	117
49	What are the true values of the bending modulus of simple lipid bilayers?. Chemistry and Physics of Lipids, 2015, 185, 3-10.	1.5	113
50	Statistical mechanics of the melting transition in lattice models of polymers. Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences, 1974, 337, 569-589.	1.5	110
51	Lipid Bilayer Phase Transition: Density Measurements and Theory. Proceedings of the National Academy of Sciences of the United States of America, 1973, 70, 3443-3444.	3.3	104
52	Liquid-Liquid Domains in Bilayers Detected by Wide Angle X-Ray Scattering. Biophysical Journal, 2008, 95, 682-690.	0.2	104
53	Analysis of Simulated NMR Order Parameters for Lipid Bilayer Structure Determination. Biophysical Journal, 1999, 76, 2479-2487.	0.2	102
54	Effects of cholesterol and unsaturated DOPC lipid on chain packing of saturated gel-phase DPPC bilayers. General Physiology and Biophysics, 2009, 28, 126-139.	0.4	102

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55	Clarification of the ripple phase of lecithin bilayers using fully hydrated, aligned samples. Physical Review E, 2000, 61, 5668-5677.	0.8	101
56	Alamethicin in lipid bilayers: Combined use of X-ray scattering and MD simulations. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1387-1397.	1.4	99
57	Comparing Membrane Simulations to Scattering Experiments: Introducing the SIMtoEXP Software. Journal of Membrane Biology, 2010, 235, 43-50.	1.0	97
58	Specific volumes of lipids in fully hydrated bilayer dispersions. Biochimica Et Biophysica Acta - Biomembranes, 1988, 938, 135-142.	1.4	95
59	Theory of Passive Permeability through Lipid Bilayers. Journal of General Physiology, 2008, 131, 77-85.	0.9	95
60	Flash spectroscopy of purple membrane. Biophysical Journal, 1987, 51, 627-635.	0.2	94
61	Anomalous swelling of lipid bilayer stacks is caused by softening of the bending modulus. Physical Review E, 2005, 71, 041904.	0.8	94
62	Ising Chain with Competing Interactions. Physical Review A, 1970, 2, 2124-2128.	1.0	93
63	HIV-1 Fusion Peptide Decreases Bending Energy and Promotes Curved Fusion Intermediates. Biophysical Journal, 2007, 93, 2048-2055.	0.2	93
64	Metastability in the phase behavior of dimyristoylphosphatidylethanolamine bilayers. Biochemistry, 1984, 23, 1538-1541.	1.2	89
65	Kinetics of the subtransition in dipalmitoylphosphatidylcholine. Biochemistry, 1987, 26, 4288-4294.	1.2	89
66	Structure and water permeability of fully hydrated diphytanoylPC. Chemistry and Physics of Lipids, 2010, 163, 630-637.	1.5	89
67	Long tail kinetics in biophysics?. Biophysical Journal, 1992, 63, 366-370.	0.2	88
68	Relations for lipid bilayers. Connection of electron density profiles to other structural quantities. Biophysical Journal, 1989, 55, 309-313.	0.2	87
69	Dilatometric studies of the subtransition in dipalmitoylphosphatidylcholine. Biochemistry, 1982, 21, 3817-3821.	1.2	86
70	Molecular models of proton pumps. Journal of Chemical Physics, 1981, 74, 1367-1372.	1.2	82
71	Structure of the DMPC lipid bilayer ripple phase. Soft Matter, 2015, 11, 918-926.	1.2	80
72	Orientation of Tie-Lines in the Phase Diagram of DOPC/DPPC/Cholesterol Model Biomembranes. Langmuir, 2010, 26, 17363-17368.	1.6	78

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73	Calorimetric Study of Glassy State. IX. Thermodynamic Properties of Stannous Chloride Dihydrate and Dideuterate Crystals. Bulletin of the Chemical Society of Japan, 1974, 47, 57-66.	2.0	77
74	Models to analyze small-angle neutron scattering from unilamellar lipid vesicles. Physical Review E, 2004, 69, 051903.	0.8	77
75	Critical Fluctuations in Membranes. Physical Review Letters, 1995, 74, 2832-2835.	2.9	73
76	HIV Fusion Peptide Penetrates, Disorders, and Softens T-Cell Membrane Mimics. Journal of Molecular Biology, 2010, 402, 139-153.	2.0	72
77	Experimentally determined tilt and bending moduli of single-component lipid bilayers. Chemistry and Physics of Lipids, 2017, 205, 18-24.	1.5	71
78	Dilatometric study of binary mixtures of phosphatidylcholines. Biochemistry, 1979, 18, 4244-4249.	1.2	69
79	Pressure dependence of the lipid bilayer phase transition. Biochemistry, 1974, 13, 3494-3496.	1.2	68
80	Numerical studies of the Ising chain with long-range ferromagnetic interactions. Journal of Physics C: Solid State Physics, 1970, 3, 352-366.	1.5	67
81	DMSO produces a new subgel phase in DPPC: DSC and X-ray diffraction study. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1369, 19-33.	1.4	66
82	Effects of ether vs. ester linkage on lipid bilayer structure and water permeability. Chemistry and Physics of Lipids, 2009, 160, 33-44.	1.5	66
83	Hopping of ions in ice. Journal of Chemical Physics, 1974, 60, 405-419.	1.2	65
84	Chain model theory of lipid monolayer transitions. Journal of Chemical Physics, 1975, 63, 1255-1261.	1.2	65
85	Theory of lipid monolayer and bilayer chain-melting phase transitions. Faraday Discussions of the Chemical Society, 1986, 81, 151.	2.2	65
86	Solving complex photocycle kinetics. Theory and direct method. Biophysical Journal, 1991, 59, 476-487.	0.2	64
87	Phase transformations in lipids follow classical kinetics with small fractional dimensionalities. Physical Review A, 1988, 37, 3993-4000.	1.0	63
88	Weakâ€Graph Method for Obtaining Formal Series Expansions for Lattice Statistical Problems. Journal of Mathematical Physics, 1968, 9, 1007-1019.	0.5	61
89	Structure and Elasticity of Lipid Membranes with Genistein and Daidzein Bioflavinoids Using X-ray Scattering and MD Simulations. Journal of Physical Chemistry B, 2012, 116, 3918-3927.	1.2	61
90	Theory of the phase transition in the layered hydrogen-bonded SnCl2Â· 2H2O crystal. Physical Review B, 1974, 9, 4920-4931.	1.1	60

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91	Ab initio molecular orbital estimates of charge partitioning between Bjerrum and ionic defects in ice. The Journal of Physical Chemistry, 1983, 87, 4267-4272.	2.9	60
92	Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. Physical Review E, 1998, 58, 7769-7776.	0.8	56
93	Determination of Electron Density Profiles and Area from Simulations of Undulating Membranes. Biophysical Journal, 2011, 100, 2112-2120.	0.2	54
94	Dielectric constant of ice. Journal of Chemical Physics, 1974, 61, 883-888.	1.2	53
95	Critical behavior of a three-dimensional dimer model. Journal of Statistical Physics, 1983, 32, 361-374.	0.5	52
96	Absence of a vestigial vapor pressure paradox. Physical Review E, 1999, 59, 7018-7024.	0.8	52
97	Simulations of Interacting Membranes in the Soft Confinement Regime. Physical Review Letters, 1998, 81, 2610-2613.	2.9	50
98	CRAC motif peptide of the HIV-1 gp41 protein thins SOPC membranes and interacts with cholesterol. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1120-1130.	1.4	48
99	Anomalous swelling in phospholipid bilayers is not coupled to the formation of a ripple phase. Physical Review E, 2001, 63, 030902.	0.8	47
100	Comparing Simulations of Lipid Bilayers to Scattering Data: The GROMOS 43A1-S3 Force Field. Journal of Physical Chemistry B, 2013, 117, 5065-5072.	1.2	47
101	Ising Chain with Competing Interactions in a Staggered Field. Journal of Chemical Physics, 1971, 54, 729-734.	1.2	44
102	Finite-size effect for the critical point of an anisotropic dimer model of domain walls. Physical Review A, 1985, 31, 3199-3213.	1.0	44
103	Kinetics of subgel formation in DPPC: X-ray diffraction proves nucleation-growth hypothesis. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 14-20.	1.4	43
104	Experimental Support for Tilt-Dependent Theory of Biomembrane Mechanics. Physical Review Letters, 2014, 113, 248102.	2.9	41
105	Alamethicin Aggregation in Lipid Membranes. Journal of Membrane Biology, 2009, 231, 11-27.	1.0	40
106	On Ordering and Identifying Undirected Linear Graphs. Journal of Mathematical Physics, 1966, 7, 1588-1592.	0.5	38
107	Critical Points for Dimer Models with32-Order Transitions. Physical Review Letters, 1975, 34, 1150-1153.	2.9	38
108	TESTING KINETIC MODELS FOR THE BACTERIORHODOPSIN PHOTOCYCLEâ€"II. INCLUSION OF AN O TO M BACKREACTION. Photochemistry and Photobiology, 1984, 40, 501-506.	1.3	38

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109	Phase Behavior of Models with Competing Interactions. Journal of Applied Physics, 1971, 42, 1280-1282.	1.1	37
110	Towards better theories of polymer melting. The Journal of Physical Chemistry, 1984, 88, 4599-4608.	2.9	36
111	Dimer pair correlations on the brick lattice. Journal of Statistical Physics, 1986, 44, 729-747.	0.5	35
112	Bending Rigidities and Interdomain Forces in Membranes with Coexisting Lipid Domains. Biophysical Journal, 2015, 108, 2833-2842.	0.2	35
113	Mechanical properties of lipid bilayers: a note on the Poisson ratio. Soft Matter, 2019, 15, 9085-9092.	1.2	34
114	Phase behavior of palmitoyl and egg sphingomyelin. Chemistry and Physics of Lipids, 2018, 213, 102-110.	1.5	32
115	Proof of the first order phase transition in the Slater KDP model. Communications in Mathematical Physics, 1969, 13, 62-67.	1.0	31
116	Phase Transitions-Beyond the Simple Ising Model. Annual Review of Physical Chemistry, 1976, 27, 291-317.	4.8	31
117	Anomalous phase behavior of long chain saturated lecithin bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1279, 17-24.	1.4	29
118	Simulations of a single membrane between two walls using a Monte Carlo method. Physical Review E, 1998, 58, 881-888.	0.8	29
119	Structure of gel phase DPPC determined by X-ray diffraction. Chemistry and Physics of Lipids, 2019, 218, 168-177.	1.5	29
120	The One-Dimensional KDP Model in Statistical Mechanics. American Journal of Physics, 1968, 36, 1114-1117.	0.3	28
121	Thermodynamic studies of purple membrane. Biochimica Et Biophysica Acta - Biomembranes, 1986, 854, 58-66.	1.4	28
122	Models of localized energy coupling. Journal of Bioenergetics and Biomembranes, 1986, 18, 55-64.	1.0	28
123	Lattice Statistics of Hydrogen Bonded Crystals. II. The Slater KDP Model and the Rys Fâ€Model. Journal of Mathematical Physics, 1966, 7, 1492-1496.	0.5	27
124	Re-analysis of Magic Angle Spinning Nuclear Magnetic Resonance Determination of Interlamellar Waters in Lipid Bilayer Dispersions. Biophysical Journal, 1999, 77, 2062-2065.	0.2	27
125	Effect of Substrate Roughness on D Spacing Supports Theoretical Resolution of Vapor Pressure Paradox. Biophysical Journal, 1998, 74, 1421-1427.	0.2	26
126	HIV-1 Tat membrane interactions probed using X-ray and neutron scattering, CD spectroscopy and MD simulations. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 3078-3087.	1.4	26

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127	Dilatometric studies of isobranched phosphatidylcholines. Biochimica Et Biophysica Acta - Biomembranes, 1986, 863, 33-44.	1.4	25
128	Combinatorial Theorem for Graphs on a Lattice. Journal of Mathematical Physics, 1968, 9, 1020-1026.	0.5	24
129	Membrane Structure Correlates to Function of LLP2 on the Cytoplasmic Tail of HIV-1 gp41 Protein. Biophysical Journal, 2013, 105, 657-666.	0.2	24
130	Sugar does not affect the bending and tilt moduli of simple lipid bilayers. Chemistry and Physics of Lipids, 2016, 196, 76-80.	1.5	24
131	Decomposition of entropy and enthalpy for the melting transition of polyethylene. Macromolecules, 1985, 18, 2643-2652.	2.2	23
132	Regarding the Entropy of Distinguishable Particles. Journal of Statistical Physics, 2004, 117, 1047-1062.	0.5	23
133	A needless but interesting controversy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	22
134	Revisiting Volumes of Lipid Components in Bilayers. Journal of Physical Chemistry B, 2019, 123, 2697-2709.	1.2	21
135	Measures of Partisan Bias for Legislating Fair Elections. Election Law Journal: Rules, Politics, and Policy, 2015, 14, 346-360.	0.3	20
136	Polymorphism in Myristoylpalmitoylphosphatidylcholine. Chemistry and Physics of Lipids, 1999, 100, 101-113.	1.5	18
137	Models for the Orderâ€"Disorder Transition in NaH3(SeO3)2. Journal of Chemical Physics, 1971, 55, 2708-2714.	1.2	17
138	Calculations for the Dielectric Anomaly in SnCl22H2O. Journal of the Physical Society of Japan, 1976, 41, 1643-1649.	0.7	17
139	Measuring the bending modulus of lipid bilayers with cholesterol. Physical Review E, 2021, 104, 044405.	0.8	17
140	UPON THE OPTIMAL GRAPHICAL REPRESENTATION OF FLASH DATA FROM PHOTOCHEMICAL SYSTEMS OBEYING FIRST ORDER KINETICS. Photochemistry and Photobiology, 1981, 33, 937-939.	1.3	16
141	HIV-1 matrix-31 membrane binding peptide interacts differently with membranes containing PS vs. PI(4,5)P2. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 3071-3081.	1.4	16
142	Determination of mosaicity in oriented stacks of lipid bilayers. Soft Matter, 2016, 12, 1884-1891.	1.2	16
143	PHOTOCYCLE KINETICS: ANALYSIS OF RAMAN DATA FROM BACTERIORHODOPSIN. Photochemistry and Photobiology, 1991, 54, 897-903.	1.3	15
144	Volumetric stability of lipid bilayers. Physical Chemistry Chemical Physics, 2012, 14, 15452.	1.3	15

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145	What Criteria Should Be Used for Redistricting Reform?. Election Law Journal: Rules, Politics, and Policy, 2019, 18, 63-77.	0.3	15
146	The thermotropic phase behavior of cationic lipids: calorimetric, infrared spectroscopic and X-ray diffraction studies of lipid bilayer membranes composed of 1,2-di- O -myristoyl-3- N,N,N -trimethylaminopropane (DM-TAP). Biochimica Et Biophysica Acta - Biomembranes, 2001, 1510, 70-82.	1.4	14
147	X-ray scattering reveals molecular tilt is an order parameter for the main phase transition in a model biomembrane. Physical Review E, 2017, 96, 030401.	0.8	14
148	Exact Configurational Entropy of Copper Formate Tetrahydrate Model. Physical Review, 1969, 186, 594-594.	2.7	12
149	Area Compressibility Moduli of the Monolayer Leaflets of Asymmetric Bilayers from Simulations. Biophysical Journal, 2019, 117, 1051-1056.	0.2	12
150	Comment on Magnetic Cooling of SolidHe3. Physical Review A, 1972, 5, 2293-2296.	1.0	11
151	Relevance of ice studies to bioenergetics. The Journal of Physical Chemistry, 1983, 87, 4086-4088.	2.9	11
152	Comment on â€œGrowth of Molecular Superlattice in Fully Hydrated Dipalmitoylphosphatidylcholine during Subgel Phase Formation Processâ€•by H. Takahashi, K. Hatta and I. Hatta. European Physical Journal B, 1998, 1, 399-400.	0.6	11
153	Correlation between length and tilt of lipid tails. Journal of Chemical Physics, 2015, 143, 154702.	1.2	11
154	Study of the F Model Using Lowâ€Temperature Series. Journal of Chemical Physics, 1969, 50, 2813-2818.	1.2	10
155	Cycle-Free Approximations to Amorphous Semiconductors. Physical Review B, 1972, 5, 2233-2241.	1.1	10
156	New phases of DPPC/water mixtures. Biochimica Et Biophysica Acta - Biomembranes, 1988, 945, 101-104.	1.4	10
157	Thermodynamic and structural characterization of amino acid-linked dialkyl lipids. Chemistry and Physics of Lipids, 2005, 134, 29-39.	1.5	9
158	In Defense of Gibbs and the Traditional Definition of the Entropy of Distinguishable Particles. Entropy, 2010, 12, 1936-1945.	1.1	9
159	How Competitive Should a Fair Single Member Districting Plan Be?. Election Law Journal: Rules, Politics, and Policy, 2017, 16, 196-209.	0.3	9
160	On Measuring Two-Party Partisan Bias in Unbalanced States. Election Law Journal: Rules, Politics, and Policy, 2021, 20, 116-138.	0.3	8
161	Exact solution to a new anisotropic dimer model with domain-wall behavior. Physical Review B, 1987, 35, 5307-5310.	1.1	7
162	Theory of the antiferroelectric transition in copper formate tetrahydrate. Journal of Physics C: Solid State Physics, 1975, 8, 2788-2798.	1.5	6

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163	Comparing Lipid Membranes in Different Environments. ACS Nano, 2014, 8, 3123-3127.	7.3	5
164	Phase transitions in â€œtwo-dimensionalâ€•hydrogen bonded crystals. Ferroelectrics, 1976, 13, 533-535.	0.3	4
165	Structure and Interactions of Lipid Bilayers: Role of Fluctuations. , 2001, , 1-23.		4
166	Proof of gridlock in a polymer model. Journal of Statistical Physics, 1985, 38, 531-540.	0.5	3
167	Comment on â€˜â€˜Orientation dependence of 2H nuclear magnetic resonance spinâ€lattice relaxation in phospholipid and phospholipid:cholesterol systemsâ€™â€™ [J. Chem. Phys. 101, 749 (1994)]. Journal of Chemical Physics, 1995, 103, 1720-1721.	1.2	3
168	Testing procedures for extracting fluctuation spectra from lipid bilayer simulations. Journal of Chemical Physics, 2014, 141, 064114.	1.2	3
169	Proton Transport in Condensed Matter. NATO ASI Series Series B: Physics, 1992, , 17-28.	0.2	3
170	Model Calculations for Nematic Ordering. Molecular Crystals and Liquid Crystals, 1976, 37, 127-135.	0.9	2
171	Nematic ordering in monomer-dimer system with attractive interactions on a square lattice. Molecular Physics, 1980, 40, 333-346.	0.8	2
172	Exact solution of the 4-8/4/1 dimer model with OK multicritical point. Journal of Physics A, 1992, 25, 543-559.	1.6	2
173	Onsager, ice, biomembranes, dimer models and the F-model. Journal of Statistical Physics, 1995, 78, 549-561.	0.5	2
174	Incorporation of the high-frequency dielectric constant into the Kirkwood dielectric equation applied to ice. The Journal of Physical Chemistry, 1983, 87, 4015-4018.	2.9	1
175	Confinement in vertex models. Journal of Physics A, 1985, 18, L181-L185.	1.6	1
176	Comment on â€œAn Apparent General Solution for the Kinetic Models of the Bacteriorhodopsin Photocyclesâ€• Journal of Physical Chemistry B, 2006, 110, 15041-15042.	1.2	1
177	HIV Fusion Peptide Penetrates, Disorders and Softens T-Cell Membrane Mimics. Biophysical Journal, 2011, 100, 186a.	0.2	1
178	Exact solutions for a variety of dimer models. Physica A: Statistical Mechanics and Its Applications, 1990, 163, 140-145.	1.2	0
179	Characterization of Electron Density Profiles and Area Per Lipid from MD Simulation of Large Undulating Bilayers. Biophysical Journal, 2010, 98, 569a.	0.2	0
180	Structure and Water Permeability of Fully Hydrated Diphytanoylpc. Biophysical Journal, 2010, 98, 282a.	0.2	0

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181	Direct Fourier Analysis of Lipid Bilayer Fluctuations in Particle-Based Simulations. Biophysical Journal, 2011, 100, 491a.	0.2	0
182	Structure and Elasticity of Genistein and Daidzein in Lipid Membranes using X-Ray Scattering and MD Simulations. Biophysical Journal, 2012, 102, 136a.	0.2	0
183	Volumetric Stability of Lipid Bilayers. Biophysical Journal, 2013, 104, 79a.	0.2	0
184	LLP-2 Domain on the Cytoplasmic Terminal Tail (CTT) of HIV-1 GP41 affects T-Cell but not HIV Virion Membranes. Biophysical Journal, 2013, 104, 247a.	0.2	0
185	Hiv-1 Tat Membrane Translocation Probed by Low- and Wide-Angle X-Ray Scattering, Neutron Scattering, CD Spectroscopy and MD Simulations. Biophysical Journal, 2014, 106, 91a.	0.2	0
186	Determining Volumes of Lipid Components: Hidden Assumptions Have Not-So-Hidden Consequences. Biophysical Journal, 2019, 116, 87a.	0.2	0