

# John F Nagle

## List of Publications by Year in descending order

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186  
papers

20,268  
citations

10373

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139  
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189  
docs citations

189  
times ranked

9517  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | On Measuring Two-Party Partisan Bias in Unbalanced States. Election Law Journal: Rules, Politics, and Policy, 2021, 20, 116-138.  | 0.3 | 8         |
| 2  | A needless but interesting controversy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .   | 3.3 | 22        |
| 3  | Measuring the bending modulus of lipid bilayers with cholesterol. Physical Review E, 2021, 104, 044405.   | 0.8 | 17        |
| 4  | Area Compressibility Moduli of the Monolayer Leaflets of Asymmetric Bilayers from Simulations. Biophysical Journal, 2019, 117, 1051-1056.                                       | 0.2 | 12        |
| 5  | Determining Volumes of Lipid Components: Hidden Assumptions Have Not-So-Hidden Consequences. Biophysical Journal, 2019, 116, 87a.   | 0.2 | 0         |
| 6  | Revisiting Volumes of Lipid Components in Bilayers. Journal of Physical Chemistry B, 2019, 123, 2697-2709.  | 1.2 | 21        |
| 7  | What Criteria Should Be Used for Redistricting Reform?. Election Law Journal: Rules, Politics, and Policy, 2019, 18, 63-77.   | 0.3 | 15        |
| 8  | Mechanical properties of lipid bilayers: a note on the Poisson ratio. Soft Matter, 2019, 15, 9085-9092.   | 1.2 | 34        |
| 9  | Structure of gel phase DPPC determined by X-ray diffraction. Chemistry and Physics of Lipids, 2019, 218, 168-177.   | 1.5 | 29        |
| 10 | Phase behavior of palmitoyl and egg sphingomyelin. Chemistry and Physics of Lipids, 2018, 213, 102-110.   | 1.5 | 32        |
| 11 | Experimentally determined tilt and bending moduli of single-component lipid bilayers. Chemistry and Physics of Lipids, 2017, 205, 18-24.  | 1.5 | 71        |
| 12 | How Competitive Should a Fair Single Member Districting Plan Be?. Election Law Journal: Rules, Politics, and Policy, 2017, 16, 196-209.   | 0.3 | 9         |
| 13 | 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        |
| 14 | 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        |
| 15 | 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        |
| 16 | Determination of mosaicity in oriented stacks of lipid bilayers. Soft Matter, 2016, 12, 1884-1891.  | 1.2 | 16        |
| 17 | Correlation between length and tilt of lipid tails. Journal of Chemical Physics, 2015, 143, 154702.   | 1.2 | 11        |
| 18 | Measures of Partisan Bias for Legislating Fair Elections. Election Law Journal: Rules, Politics, and Policy, 2015, 14, 346-360.   | 0.3 | 20        |

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|----|---|-----|-----------|
| 19 | Bending Rigidities and Interdomain Forces in Membranes with Coexisting Lipid Domains. <i>Biophysical Journal</i> , 2015, 108, 2833-2842.  | 0.2 | 35        |
| 20 | Structure of the DMPC lipid bilayer ripple phase. <i>Soft Matter</i> , 2015, 11, 918-926.   | 1.2 | 80        |
| 21 | What are the true values of the bending modulus of simple lipid bilayers?. <i>Chemistry and Physics of Lipids</i> , 2015, 185, 3-10.  | 1.5 | 113       |
| 22 | Experimental Support for Tilt-Dependent Theory of Biomembrane Mechanics. <i>Physical Review Letters</i> , 2014, 113, 248102.  | 2.9 | 41        |
| 23 | Testing procedures for extracting fluctuation spectra from lipid bilayer simulations. <i>Journal of Chemical Physics</i> , 2014, 141, 064114.   | 1.2 | 3         |
| 24 | Comparing Lipid Membranes in Different Environments. <i>ACS Nano</i> , 2014, 8, 3123-3127.  | 7.3 | 5         |
| 25 | HIV-1 Tat membrane interactions probed using X-ray and neutron scattering, CD spectroscopy and MD simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 3078-3087.     | 1.4 | 26        |
| 26 | Hiv-1 Tat Membrane Translocation Probed by Low- and Wide-Angle X-Ray Scattering, Neutron Scattering, CD Spectroscopy and MD Simulations. <i>Biophysical Journal</i> , 2014, 106, 91a.           | 0.2 | 0         |
| 27 | Membrane Structure Correlates to Function of LLP2 on the Cytoplasmic Tail of HIV-1 gp41 Protein. <i>Biophysical Journal</i> , 2013, 105, 657-666.   | 0.2 | 24        |
| 28 | Introductory Lecture: Basic quantities in model biomembranes. <i>Faraday Discussions</i> , 2013, 161, 11-29.  | 1.6 | 136       |
| 29 | Volumetric Stability of Lipid Bilayers. <i>Biophysical Journal</i> , 2013, 104, 79a.  | 0.2 | 0         |
| 30 | LLP-2 Domain on the Cytoplasmic Terminal Tail (CTT) of HIV-1 GP41 affects T-Cell but not HIV Virion Membranes. <i>Biophysical Journal</i> , 2013, 104, 247a.                                    | 0.2 | 0         |
| 31 | Comparing Simulations of Lipid Bilayers to Scattering Data: The GROMOS 43A1-S3 Force Field. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5065-5072.                                      | 1.2 | 47        |
| 32 | Volumetric stability of lipid bilayers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15452.   | 1.3 | 15        |
| 33 | Structure and Elasticity of Lipid Membranes with Genistein and Daidzein Bioflavonoids Using X-ray Scattering and MD Simulations. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3918-3927. | 1.2 | 61        |
| 34 | Structure and Elasticity of Genistein and Daidzein in Lipid Membranes using X-Ray Scattering and MD Simulations. <i>Biophysical Journal</i> , 2012, 102, 136a.                                  | 0.2 | 0         |
| 35 | Direct Fourier Analysis of Lipid Bilayer Fluctuations in Particle-Based Simulations. <i>Biophysical Journal</i> , 2011, 100, 491a.  | 0.2 | 0         |
| 36 | Determination of Electron Density Profiles and Area from Simulations of Undulating Membranes. <i>Biophysical Journal</i> , 2011, 100, 2112-2120.  | 0.2 | 54        |

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|----|--|-----|-----------|
| 37 | Interpretation of Fluctuation Spectra in Lipid Bilayer Simulations. <i>Biophysical Journal</i> , 2011, 100, 2104-2111.   | 0.2 | 117       |
| 38 | HIV Fusion Peptide Penetrates, Disorders and Softens T-Cell Membrane Mimics. <i>Biophysical Journal</i> , 2011, 100, 186a.   | 0.2 | 1         |
| 39 | Comparing Membrane Simulations to Scattering Experiments: Introducing the SIMtoEXP Software. <i>Journal of Membrane Biology</i> , 2010, 235, 43-50.                      | 1.0 | 97        |
| 40 | Structure and water permeability of fully hydrated diphytanoylPC. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 630-637.   | 1.5 | 89        |
| 41 | In Defense of Gibbs and the Traditional Definition of the Entropy of Distinguishable Particles. <i>Entropy</i> , 2010, 12, 1936-1945.                                    | 1.1 | 9         |
| 42 | Characterization of Electron Density Profiles and Area Per Lipid from MD Simulation of Large Undulating Bilayers. <i>Biophysical Journal</i> , 2010, 98, 569a.           | 0.2 | 0         |
| 43 | Orientation of Tie-Lines in the Phase Diagram of DOPC/DPPC/Cholesterol Model Biomembranes. <i>Langmuir</i> , 2010, 26, 17363-17368.                                      | 1.6 | 78        |
| 44 | HIV Fusion Peptide Penetrates, Disorders, and Softens T-Cell Membrane Mimics. <i>Journal of Molecular Biology</i> , 2010, 402, 139-153.                                  | 2.0 | 72        |
| 45 | Structure and Water Permeability of Fully Hydrated Diphytanoylpc. <i>Biophysical Journal</i> , 2010, 98, 282a.   | 0.2 | 0         |
| 46 | Effects of cholesterol and unsaturated DOPC lipid on chain packing of saturated gel-phase DPPC bilayers. <i>General Physiology and Biophysics</i> , 2009, 28, 126-139.   | 0.4 | 102       |
| 47 | Effect of cholesterol on structural and mechanical properties of membranes depends on lipid chain saturation. <i>Physical Review E</i> , 2009, 80, 021931.               | 0.8 | 299       |
| 48 | Alamethicin Aggregation in Lipid Membranes. <i>Journal of Membrane Biology</i> , 2009, 231, 11-27.   | 1.0 | 40        |
| 49 | Effects of ether vs. ester linkage on lipid bilayer structure and water permeability. <i>Chemistry and Physics of Lipids</i> , 2009, 160, 33-44.                         | 1.5 | 66        |
| 50 | Alamethicin in lipid bilayers: Combined use of X-ray scattering and MD simulations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1387-1397.         | 1.4 | 99        |
| 51 | Temperature Dependence of Structure, Bending Rigidity, and Bilayer Interactions of Dioleoylphosphatidylcholine Bilayers. <i>Biophysical Journal</i> , 2008, 94, 117-124. | 0.2 | 307       |
| 52 | Order Parameters and Areas in Fluid-Phase Oriented Lipid Membranes Using Wide Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2008, 95, 669-681.                    | 0.2 | 186       |
| 53 | Liquid-Liquid Domains in Bilayers Detected by Wide Angle X-Ray Scattering. <i>Biophysical Journal</i> , 2008, 95, 682-690.   | 0.2 | 104       |
| 54 | Lipid Bilayer Structure Determined by the Simultaneous Analysis of Neutron and X-Ray Scattering Data. <i>Biophysical Journal</i> , 2008, 95, 2356-2367.                  | 0.2 | 518       |

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|----|---|-----|-----------|
| 55 | CRAC motif peptide of the HIV-1 gp41 protein thins SOPC membranes and interacts with cholesterol. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1120-1130.                                  | 1.4 | 48        |
| 56 | Structural Determinants of Water Permeability through the Lipid Membrane. <i>Journal of General Physiology</i> , 2008, 131, 69-76.  | 0.9 | 314       |
| 57 | Theory of Passive Permeability through Lipid Bilayers. <i>Journal of General Physiology</i> , 2008, 131, 77-85.   | 0.9 | 95        |
| 58 | Cholesterol Perturbs Lipid Bilayers Nonuniversally. <i>Physical Review Letters</i> , 2008, 100, 198103.   | 2.9 | 247       |
| 59 | Curvature Effect on the Structure of Phospholipid Bilayers. <i>Langmuir</i> , 2007, 23, 1292-1299.  | 1.6 | 124       |
| 60 | HIV-1 Fusion Peptide Decreases Bending Energy and Promotes Curved Fusion Intermediates. <i>Biophysical Journal</i> , 2007, 93, 2048-2055.   | 0.2 | 93        |
| 61 | Swelling of phospholipids by monovalent salt. <i>Journal of Lipid Research</i> , 2006, 47, 302-309.   | 2.0 | 140       |
| 62 | Simulation-Based Methods for Interpreting X-Ray Data from Lipid Bilayers. <i>Biophysical Journal</i> , 2006, 90, 2796-2807.   | 0.2 | 219       |
| 63 | Closer Look at Structure of Fully Hydrated Fluid Phase DPPC Bilayers. <i>Biophysical Journal</i> , 2006, 90, L83-L85.   | 0.2 | 165       |
| 64 | Comment on "An Apparent General Solution for the Kinetic Models of the Bacteriorhodopsin Photocycles". <i>Journal of Physical Chemistry B</i> , 2006, 110, 15041-15042.   | 1.2 | 1         |
| 65 | Partial molecular volumes of lipids and cholesterol. <i>Chemistry and Physics of Lipids</i> , 2006, 143, 1-10.  | 1.5 | 206       |
| 66 | Structure of Fully Hydrated Fluid Phase Lipid Bilayers with Monounsaturated Chains. <i>Journal of Membrane Biology</i> , 2006, 208, 193-202.  | 1.0 | 715       |
| 67 | Thermodynamic and structural characterization of amino acid-linked dialkyl lipids. <i>Chemistry and Physics of Lipids</i> , 2005, 134, 29-39.   | 1.5 | 9         |
| 68 | Anomalous swelling of lipid bilayer stacks is caused by softening of the bending modulus. <i>Physical Review E</i> , 2005, 71, 041904.  | 0.8 | 94        |
| 69 | Structure of Fully Hydrated Fluid Phase DMPC and DLPC Lipid Bilayers Using X-Ray Scattering from Oriented Multilamellar Arrays and from Unilamellar Vesicles. <i>Biophysical Journal</i> , 2005, 88, 2626-2637. | 0.2 | 531       |
| 70 | Areas of Molecules in Membranes Consisting of Mixtures. <i>Biophysical Journal</i> , 2005, 89, 1827-1832.   | 0.2 | 175       |
| 71 | Diffuse scattering provides material parameters and electron density profiles of biomembranes. <i>Physical Review E</i> , 2004, 69, 040901.   | 0.8 | 209       |
| 72 | Regarding the Entropy of Distinguishable Particles. <i>Journal of Statistical Physics</i> , 2004, 117, 1047-1062.   | 0.5 | 23        |

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|----|---|-----|-----------|
| 73 | Lipid bilayers: thermodynamics, structure, fluctuations, and interactions. Chemistry and Physics of Lipids, 2004, 127, 3-14.  | 1.5 | 264       |
| 74 | Models to analyze small-angle neutron scattering from unilamellar lipid vesicles. Physical Review E, 2004, 69, 051903.  | 0.8 | 77        |
| 75 | Structure and Fluctuations of Charged Phosphatidylserine Bilayers in the Absence of Salt. Biophysical Journal, 2004, 86, 1574-1586.   | 0.2 | 263       |
| 76 | Structure of Gel Phase DMPC Determined by X-Ray Diffraction. Biophysical Journal, 2002, 83, 3324-3335.  | 0.2 | 329       |
| 77 | 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        |
| 78 | Anomalous swelling in phospholipid bilayers is not coupled to the formation of a ripple phase. Physical Review E, 2001, 63, 030902.   | 0.8 | 47        |
| 79 | Structure and Interactions of Lipid Bilayers: Role of Fluctuations. , 2001, , 1-23.   |     | 4         |
| 80 | Structure of lipid bilayers. BBA - Biomembranes, 2000, 1469, 159-195.   | 7.9 | 2,314     |
| 81 | Lipid bilayer structure. Current Opinion in Structural Biology, 2000, 10, 474-480.  | 2.6 | 184       |
| 82 | Clarification of the ripple phase of lecithin bilayers using fully hydrated, aligned samples. Physical Review E, 2000, 61, 5668-5677.   | 0.8 | 101       |
| 83 | Method for obtaining structure and interactions from oriented lipid bilayers. Physical Review E, 2000, 63, 011907.  | 0.8 | 141       |
| 84 | Absence of a vestigial vapor pressure paradox. Physical Review E, 1999, 59, 7018-7024.  | 0.8 | 52        |
| 85 | Polymorphism in Myristoylpalmitoylphosphatidylcholine. Chemistry and Physics of Lipids, 1999, 100, 101-113.   | 1.5 | 18        |
| 86 | 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        |
| 87 | Analysis of Simulated NMR Order Parameters for Lipid Bilayer Structure Determination. Biophysical Journal, 1999, 76, 2479-2487.   | 0.2 | 102       |
| 88 | Fluid phase structure of EPC and DMPC bilayers. Chemistry and Physics of Lipids, 1998, 95, 83-94.   | 1.5 | 245       |
| 89 | Comment on "Growth of Molecular Superlattice in Fully Hydrated Dipalmitoylphosphatidylcholine during Subgel Phase Formation Process" by H. Takahashi, K. Hatta and I. Hatta. European Physical Journal B, 1998, 1, 399-400.   | 0.6 | 11        |
| 90 | 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        |

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| 91  | Structure and Interactions of Fully Hydrated Dioleoylphosphatidylcholine Bilayers. <i>Biophysical Journal</i> , 1998, 75, 917-925.   | 0.2 | 316       |
| 92  | Effect of Substrate Roughness on D Spacing Supports Theoretical Resolution of Vapor Pressure Paradox. <i>Biophysical Journal</i> , 1998, 74, 1421-1427.  | 0.2 | 26        |
| 93  | Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. <i>Physical Review E</i> , 1998, 58, 7769-7776.   | 0.8 | 56        |
| 94  | Interbilayer interactions from high-resolution x-ray scattering. <i>Physical Review E</i> , 1998, 57, 7014-7024.   | 0.8 | 247       |
| 95  | Simulations of Interacting Membranes in the Soft Confinement Regime. <i>Physical Review Letters</i> , 1998, 81, 2610-2613.   | 2.9 | 50        |
| 96  | Simulations of a single membrane between two walls using a Monte Carlo method. <i>Physical Review E</i> , 1998, 58, 881-888.   | 0.8 | 29        |
| 97  | Determination of component volumes of lipid bilayers from simulations. <i>Biophysical Journal</i> , 1997, 72, 2237-2242.   | 0.2 | 153       |
| 98  | Structure of gel phase saturated lecithin bilayers: temperature and chain length dependence. <i>Biophysical Journal</i> , 1996, 71, 885-891.   | 0.2 | 145       |
| 99  | Small-angle x-ray scattering from lipid bilayers is well described by modified CaillÃ© theory but not by paracrystalline theory. <i>Biophysical Journal</i> , 1996, 70, 349-357.   | 0.2 | 126       |
| 100 | X-ray structure determination of fully hydrated L alpha phase dipalmitoylphosphatidylcholine bilayers. <i>Biophysical Journal</i> , 1996, 70, 1419-1431.   | 0.2 | 454       |
| 101 | Anomalous phase behavior of long chain saturated lecithin bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1279, 17-24.   | 1.4 | 29        |
| 102 | Structure of the ripple phase in lecithin bilayers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 7008-7012.   | 3.3 | 123       |
| 103 | Onsager, ice, biomembranes, dimer models and the F-model. <i>Journal of Statistical Physics</i> , 1995, 78, 549-561.   | 0.5 | 2         |
| 104 | Critical Fluctuations in Membranes. <i>Physical Review Letters</i> , 1995, 74, 2832-2835.  | 2.9 | 73        |
| 105 | Comment on "Orientation dependence of 2H nuclear magnetic resonance spin-lattice relaxation in phospholipid and phospholipid:cholesterol systems" [J. Chem. Phys. 101, 749 (1994)]. <i>Journal of Chemical Physics</i> , 1995, 103, 1720-1721. | 1.2 | 3         |
| 106 | Order and disorder in fully hydrated unoriented bilayers of gel-phase dipalmitoylphosphatidylcholine. <i>Physical Review E</i> , 1994, 49, 4665-4676.  | 0.8 | 204       |
| 107 | Kinetics of subgel formation in DPPC: X-ray diffraction proves nucleation-growth hypothesis. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1191, 14-20.  | 1.4 | 43        |
| 108 | Theory of the structure factor of lipid bilayers. <i>Physical Review E</i> , 1994, 50, 5047-5060.  | 0.8 | 186       |

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|-----|---|-----|-----------|
| 109 | Measurement of chain tilt angle in fully hydrated bilayers of gel phase lecithins. <i>Biophysical Journal</i> , 1993, 64, 1097-1109.                  | 0.2 | 259       |
| 110 | Area/lipid of bilayers from NMR. <i>Biophysical Journal</i> , 1993, 64, 1476-1481.  | 0.2 | 317       |
| 111 | Exact solution of the 4-8/4/1 dimer model with OK multicritical point. <i>Journal of Physics A</i> , 1992, 25, 543-559.                               | 1.6 | 2         |
| 112 | Long tail kinetics in biophysics?. <i>Biophysical Journal</i> , 1992, 63, 366-370.  | 0.2 | 88        |
| 113 | Proton Transport in Condensed Matter. <i>NATO ASI Series Series B: Physics</i> , 1992, , 17-28.   | 0.2 | 3         |
| 114 | Solving complex photocycle kinetics. Theory and direct method. <i>Biophysical Journal</i> , 1991, 59, 476-487.  | 0.2 | 64        |
| 115 | PHOTOCYCLE KINETICS: ANALYSIS OF RAMAN DATA FROM BACTERIORHODOPSIN. <i>Photochemistry and Photobiology</i> , 1991, 54, 897-903.                       | 1.3 | 15        |
| 116 | Exact solutions for a variety of dimer models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990, 163, 140-145.                     | 1.2 | 0         |
| 117 | Relations for lipid bilayers. Connection of electron density profiles to other structural quantities. <i>Biophysical Journal</i> , 1989, 55, 309-313. | 0.2 | 87        |
| 118 | Structure of the fully hydrated gel phase of dipalmitoylphosphatidylcholine. <i>Biophysical Journal</i> , 1989, 55, 315-325.                          | 0.2 | 240       |
| 119 | Specific volumes of lipids in fully hydrated bilayer dispersions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 938, 135-142.           | 1.4 | 95        |
| 120 | Structure of fully hydrated bilayer dispersions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 942, 1-10.                               | 1.4 | 251       |
| 121 | New phases of DPPC/water mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 945, 101-104.  | 1.4 | 10        |
| 122 | Phase transformations in lipids follow classical kinetics with small fractional dimensionalities. <i>Physical Review A</i> , 1988, 37, 3993-4000.     | 1.0 | 63        |
| 123 | Exact solution to a new anisotropic dimer model with domain-wall behavior. <i>Physical Review B</i> , 1987, 35, 5307-5310.                            | 1.1 | 7         |
| 124 | Flash spectroscopy of purple membrane. <i>Biophysical Journal</i> , 1987, 51, 627-635.  | 0.2 | 94        |
| 125 | Kinetics of the subtransition in dipalmitoylphosphatidylcholine. <i>Biochemistry</i> , 1987, 26, 4288-4294.   | 1.2 | 89        |
| 126 | Thermodynamic studies of purple membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 854, 58-66.                                     | 1.4 | 28        |



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|-----|---|-----|-----------|
| 127 | Dilatometric studies of isobranched phosphatidylcholines. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 863, 33-44.   | 1.4 | 25        |
| 128 | Theory of lipid monolayer and bilayer chain-melting phase transitions. <i>Faraday Discussions of the Chemical Society</i> , 1986, 81, 151.                                    | 2.2 | 65        |
| 129 | Models of localized energy coupling. <i>Journal of Bioenergetics and Biomembranes</i> , 1986, 18, 55-64.  | 1.0 | 28        |
| 130 | Dimer pair correlations on the brick lattice. <i>Journal of Statistical Physics</i> , 1986, 44, 729-747.  | 0.5 | 35        |
| 131 | Proof of gridlock in a polymer model. <i>Journal of Statistical Physics</i> , 1985, 38, 531-540.  | 0.5 | 3         |
| 132 | Confinement in vertex models. <i>Journal of Physics A</i> , 1985, 18, L181-L185.  | 1.6 | 1         |
| 133 | Finite-size effect for the critical point of an anisotropic dimer model of domain walls. <i>Physical Review A</i> , 1985, 31, 3199-3213.                                      | 1.0 | 44        |
| 134 | Decomposition of entropy and enthalpy for the melting transition of polyethylene. <i>Macromolecules</i> , 1985, 18, 2643-2652.  | 2.2 | 23        |
| 135 | TESTING KINETIC MODELS FOR THE BACTERIORHODOPSIN PHOTOCYCLE—II. INCLUSION OF AN O TO M BACKREACTION. <i>Photochemistry and Photobiology</i> , 1984, 40, 501-506.              | 1.3 | 38        |
| 136 | Towards better theories of polymer melting. <i>The Journal of Physical Chemistry</i> , 1984, 88, 4599-4608.   | 2.9 | 36        |
| 137 | Metastability in the phase behavior of dimyristoylphosphatidylethanolamine bilayers. <i>Biochemistry</i> , 1984, 23, 1538-1541.   | 1.2 | 89        |
| 138 | Hydrogen bonded chain mechanisms for proton conduction and proton pumping. <i>Journal of Membrane Biology</i> , 1983, 74, 1-14.   | 1.0 | 374       |
| 139 | Critical behavior of a three-dimensional dimer model. <i>Journal of Statistical Physics</i> , 1983, 32, 361-374.  | 0.5 | 52        |
| 140 | Ab initio molecular orbital estimates of charge partitioning between Bjerrum and ionic defects in ice. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4267-4272.        | 2.9 | 60        |
| 141 | Relevance of ice studies to bioenergetics. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4086-4088.  | 2.9 | 11        |
| 142 | Incorporation of the high-frequency dielectric constant into the Kirkwood dielectric equation applied to ice. <i>The Journal of Physical Chemistry</i> , 1983, 87, 4015-4018. | 2.9 | 1         |
| 143 | Dilatometric studies of the subtransition in dipalmitoylphosphatidylcholine. <i>Biochemistry</i> , 1982, 21, 3817-3821.   | 1.2 | 86        |
| 144 | Procedure for testing kinetic models of the photocycle of bacteriorhodopsin. <i>Biophysical Journal</i> , 1982, 38, 161-174.  | 0.2 | 134       |

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|-----|--|-----|-----------|
| 145 | Dilatometry and calorimetry of saturated phosphatidylethanolamine dispersions. <i>Biochemistry</i> , 1981, 20, 187-192.  | 1.2 | 152       |
| 146 | UPON THE OPTIMAL GRAPHICAL REPRESENTATION OF FLASH DATA FROM PHOTOCHEMICAL SYSTEMS OBEYING FIRST ORDER KINETICS. <i>Photochemistry and Photobiology</i> , 1981, 33, 937-939. | 1.3 | 16        |
| 147 | Molecular models of proton pumps. <i>Journal of Chemical Physics</i> , 1981, 74, 1367-1372.  | 1.2 | 82        |
| 148 | Nematic ordering in monomer-dimer system with attractive interactions on a square lattice. <i>Molecular Physics</i> , 1980, 40, 333-346.                                     | 0.8 | 2         |
| 149 | Theory of the Main Lipid Bilayer Phase Transition. <i>Annual Review of Physical Chemistry</i> , 1980, 31, 157-196.   | 4.8 | 504       |
| 150 | Theory of hydrogen bonded chains in bioenergetics. <i>Journal of Chemical Physics</i> , 1980, 72, 3959-3971.   | 1.2 | 186       |
| 151 | Dilatometric study of binary mixtures of phosphatidylcholines. <i>Biochemistry</i> , 1979, 18, 4244-4249.  | 1.2 | 69        |
| 152 | Lecithin bilayers. Density measurement and molecular interactions. <i>Biophysical Journal</i> , 1978, 23, 159-175.   | 0.2 | 589       |
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