Stephanie Tristram-Nagle

List of Publications by Year
in descending order

109 papers	13,625 citations	30070 54 h-index	30087 103 g-index
110 all docs	110 docs citations	110 times ranked	9752 citing authors

#	Article	IF	Citations
1	Rational Framework for the Design of Trp- and Arg-Rich Peptide Antibiotics Against Multidrug-Resistant Bacteria. Frontiers in Microbiology, 2022, 13, .	3.5	3
2	Changes in membrane elasticity caused by the hydrophobic surfactant proteins correlate poorly with adsorption of lipid vesicles. Soft Matter, 2021, 17, 3358-3366.	2.7	1
3	Design, synthesis, and properties of a six-membered oligofuran macrocycle. Organic Chemistry Frontiers, 2021, 8, 1775-1782.	4.5	12
4	A needless but interesting controversy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
5	Suppression of LÎ±/LÎ² Phase Coexistence in the Lipids of Pulmonary Surfactant. Biophysical Journal, 2021, 120, 243-253.	0.5	3
6	How Do Ethanolamine Plasmalogens Contribute to Order and Structure of Neurological Membranes?. Journal of Physical Chemistry B, 2020, 124, 828-839.	2.6	23
7	Methylene volumes in monoglyceride bilayers are larger than in liquid alkanes. Chemistry and Physics of Lipids, 2020, 226, 104833.	3.2	0
8	Location of the Hydrophobic Surfactant Proteins, SP-B and SP-C, in Fluid-Phase Bilayers. Journal of Physical Chemistry B, 2020, 124, 6763-6774.	2.6	11
9	Synergistic Biophysical Techniques Reveal Structural Mechanisms of Engineered Cationic Antimicrobial Peptides in Lipid Model Membranes. Chemistry - A European Journal, 2020, 26, 6247-6256.	3.3	9
10	Determining Volumes of Lipid Components: Hidden Assumptions Have Not-So-Hidden Consequences. Biophysical Journal, 2019, 116, 87a.	0.5	0
11	Elastic behavior of model membranes with antimicrobial peptides depends on lipid specificity and<scp>d</scp>-enantiomers. Soft Matter, 2019, 15, 1860-1868.	2.7	21
12	Revisiting Volumes of Lipid Components in Bilayers. Journal of Physical Chemistry B, 2019, 123, 2697-2709.	2.6	21
13	Structure of gel phase DPPC determined by X-ray diffraction. Chemistry and Physics of Lipids, 2019, 218, 168-177.	3.2	29
14	Selective Interaction of Colistin with Lipid Model Membranes. Biophysical Journal, 2018, 114, 919-928.	0.5	54
15	Phase behavior of palmitoyl and egg sphingomyelin. Chemistry and Physics of Lipids, 2018, 213, 102-110.	3.2	32
16	Physics of HIV. Journal Physics D: Applied Physics, 2018, 51, 183001.	2.8	2
17	Effect of Anti-Leishmania Drugs on the Structural and Elastic Properties of Ultradeformable Lipid Membranes. Journal of Physical Chemistry B, 2018, 122, 7332-7339.	2.6	9
18	Aliphatic flexible spacer length controls photomechanical response in compact, ordered liquid crystalline polymer networks. Polymer, 2017, 133, 30-39.	3.8	8

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19	Enabling Marangoni flow at air-liquid interfaces through deposition of aerosolized lipid dispersions. Journal of Colloid and Interface Science, 2016, 484, 270-278.	9.4	19
20	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.	2.6	16
21	Sugar does not affect the bending and tilt moduli of simple lipid bilayers. Chemistry and Physics of Lipids, 2016, 196, 76-80.	3.2	24
22	Determination of mosaicity in oriented stacks of lipid bilayers. Soft Matter, 2016, 12, 1884-1891.	2.7	16
23	Stille Catalystâ€Transfer Polycondensation Using Pdâ€PEPPSIâ€IPr for Highâ€Molecularâ€Weight Regioregular Poly(3â€hexylthiophene). Macromolecular Rapid Communications, 2015, 36, 840-844.	3.9	56
24	Penetration of HIV-1 Tat47â€"57 into PC/PE Bilayers Assessed by MD Simulation and X-ray Scattering. Membranes, 2015, 5, 473-494.	3.0	11
25	Accurate calibration and control of relative humidity close to 100% by X-raying a DOPC multilayer. Physical Chemistry Chemical Physics, 2015, 17, 3570-3576.	2.8	15
26	Structural insights into the cubicâ€"hexagonal phase transition kinetics of monoolein modulated by sucrose solutions. Physical Chemistry Chemical Physics, 2015, 17, 9194-9204.	2.8	14
27	Use of X-Ray and Neutron Scattering Methods with Volume Measurements to Determine Lipid Bilayer Structure and Number of Water Molecules/Lipid. Sub-Cellular Biochemistry, 2015, 71, 17-43.	2.4	11
28	What are the true values of the bending modulus of simple lipid bilayers?. Chemistry and Physics of Lipids, 2015, 185, 3-10.	3.2	113
29	X-ray structure, thermodynamics, elastic properties and MD simulations of cardiolipin/dimyristoylphosphatidylcholine mixed membranes. Chemistry and Physics of Lipids, 2014, 178, 1-10.	3.2	42
30	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.	2.6	26
31	Structural adaptations of proteins to different biological membranes. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 2592-2608.	2.6	54
32	Membrane Structure Correlates to Function of LLP2 on the Cytoplasmic Tail of HIV-1 gp41 Protein. Biophysical Journal, 2013, 105, 657-666.	0.5	24
33	Volumetric stability of lipid bilayers. Physical Chemistry Chemical Physics, 2012, 14, 15452.	2.8	15
34	Î±-Synuclein Induces Both Positive Mean Curvature and Negative Gaussian Curvature in Membranes. Journal of the American Chemical Society, 2012, 134, 2613-2620.	13.7	108
35	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.	2.6	61
36	Molecular structures of fluid phase phosphatidylglycerol bilayers as determined by small angle neutron and X-ray scattering. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2135-2148.	2.6	189

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37	HIV Fusion Peptide Penetrates, Disorders and Softens T-Cell Membrane Mimics. Biophysical Journal, 2011, 100, 186a.	0.5	1
38	Effect of the HIV-1 fusion peptide on the mechanical properties and leaflet coupling of lipid bilayers. New Journal of Physics, 2011, 13, 025004.	2.9	72
39	Structure and water permeability of fully hydrated diphytanoylPC. Chemistry and Physics of Lipids, 2010, 163, 630-637.	3.2	89
40	Orientation of Tie-Lines in the Phase Diagram of DOPC/DPPC/Cholesterol Model Biomembranes. Langmuir, 2010, 26, 17363-17368.	3.5	78
41	HIV Fusion Peptide Penetrates, Disorders, and Softens T-Cell Membrane Mimics. Journal of Molecular Biology, 2010, 402, 139-153.	4.2	72
42	Probing the Membrane Deformations Induced by Binding of Membrane Proteins: Alpha-Synuclein and CRAC. Biophysical Journal, 2010, 98, 487a-488a.	0.5	0
43	Effect of cholesterol on structural and mechanical properties of membranes depends on lipid chain saturation. Physical Review E, 2009, 80, 021931.	2.1	299
44	Alamethicin Aggregation in Lipid Membranes. Journal of Membrane Biology, 2009, 231, 11-27.	2.1	40
45	Effects of ether vs. ester linkage on lipid bilayer structure and water permeability. Chemistry and Physics of Lipids, 2009, 160, 33-44.	3.2	66
46	Alamethicin in lipid bilayers: Combined use of X-ray scattering and MD simulations. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1387-1397.	2.6	99
47	The Superstructure of an Antimicrobial Peptide, Alamethicin, in Lipid Membranes. Biophysical Journal, 2009, 96, 158a-159a.	0.5	0
48	Temperature Dependence of Structure, Bending Rigidity, and Bilayer Interactions of Dioleoylphosphatidylcholine Bilayers. Biophysical Journal, 2008, 94, 117-124.	0.5	307
49	The Effect of Cholesterol on Short- and Long-Chain Monounsaturated Lipid Bilayers as Determined by Molecular Dynamics Simulations and X-Ray Scattering. Biophysical Journal, 2008, 95, 2792-2805.	0.5	148
50	Order Parameters and Areas in Fluid-Phase Oriented Lipid Membranes Using Wide Angle X-Ray Scattering. Biophysical Journal, 2008, 95, 669-681.	0.5	186
51	Liquid-Liquid Domains in Bilayers Detected by Wide Angle X-Ray Scattering. Biophysical Journal, 2008, 95, 682-690.	0.5	104
52	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.	2.6	48
53	Structural Determinants of Water Permeability through the Lipid Membrane. Journal of General Physiology, 2008, 131, 69-76.	1.9	314
54	Theory of Passive Permeability through Lipid Bilayers. Journal of General Physiology, 2008, 131, 77-85.	1.9	95

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55	Cholesterol Perturbs Lipid Bilayers Nonuniversally. Physical Review Letters, 2008, 100, 198103.	7.8	247
56	HIV-1 Fusion Peptide Decreases Bending Energy and Promotes Curved Fusion Intermediates. Biophysical Journal, 2007, 93, 2048-2055.	0.5	93
57	Preparation of Oriented, Fully Hydrated Lipid Samples for Structure Determination Using X-Ray Scattering. Methods in Molecular Biology, 2007, 400, 63-75.	0.9	78
58	Swelling of phospholipids by monovalent salt. Journal of Lipid Research, 2006, 47, 302-309.	4.2	140
59	Closer Look at Structure of Fully Hydrated Fluid Phase DPPC Bilayers. Biophysical Journal, 2006, 90, L83-L85.	0.5	165
60	Nanostructure Dependence of Field-Effect Mobility in Regioregular Poly(3-hexylthiophene) Thin Film Field Effect Transistors. Journal of the American Chemical Society, 2006, 128, 3480-3481.	13.7	439
61	Partial molecular volumes of lipids and cholesterol. Chemistry and Physics of Lipids, 2006, 143, 1-10.	3.2	206
62	Structure of Fully Hydrated Fluid Phase Lipid Bilayers with Monounsaturated Chains. Journal of Membrane Biology, 2006, 208, 193-202.	2.1	715
63	Thermodynamic and structural characterization of amino acid-linked dialkyl lipids. Chemistry and Physics of Lipids, 2005, 134, 29-39.	3.2	9
64	Anomalous swelling of lipid bilayer stacks is caused by softening of the bending modulus. Physical Review E, 2005, 71, 041904.	2.1	94
65	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.	0.5	531
66	Lipid bilayers: thermodynamics, structure, fluctuations, and interactions. Chemistry and Physics of Lipids, 2004, 127, 3-14.	3.2	264
67	Structure and Fluctuations of Charged Phosphatidylserine Bilayers in the Absence of Salt. Biophysical Journal, 2004, 86, 1574-1586.	0.5	263
68	Polyunsaturated Docosahexaenoic vs Docosapentaenoic AcidDifferences in Lipid Matrix Properties from the Loss of One Double Bond. Journal of the American Chemical Society, 2003, 125, 6409-6421.	13.7	212
69	Structure of Gel Phase DMPC Determined by X-Ray Diffraction. Biophysical Journal, 2002, 83, 3324-3335.	0.5	329
70	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.	2.6	14
71	Structure and Interactions of Lipid Bilayers: Role of Fluctuations. , 2001, , 1-23.		4
72	Structure of lipid bilayers. BBA - Biomembranes, 2000, 1469, 159-195.	8.0	2,314

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73	Lipid bilayer structure. Current Opinion in Structural Biology, 2000, 10, 474-480.	5.7	184
74	Clarification of the ripple phase of lecithin bilayers using fully hydrated, aligned samples. Physical Review E, 2000, 61, 5668-5677.	2.1	101
75	Method for obtaining structure and interactions from oriented lipid bilayers. Physical Review E, 2000, 63, 011907.	2.1	141
76	Polymorphism in Myristoylpalmitoylphosphatidylcholine. Chemistry and Physics of Lipids, 1999, 100, 101-113.	3.2	18
77	Re-analysis of Magic Angle Spinning Nuclear Magnetic Resonance Determination of Interlamellar Waters in Lipid Bilayer Dispersions. Biophysical Journal, 1999, 77, 2062-2065.	0.5	27
78	Fluid phase structure of EPC and DMPC bilayers. Chemistry and Physics of Lipids, 1998, 95, 83-94.	3.2	245
79	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.	1.5	11
80	DMSO produces a new subgel phase in DPPC: DSC and X-ray diffraction study. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1369, 19-33.	2.6	66
81	Structure and Interactions of Fully Hydrated Dioleoylphosphatidylcholine Bilayers. Biophysical Journal, 1998, 75, 917-925.	0.5	316
82	Effect of Substrate Roughness on D Spacing Supports Theoretical Resolution of Vapor Pressure Paradox. Biophysical Journal, 1998, 74, 1421-1427.	0.5	26
83	Multiple mechanisms for critical behavior in the biologically relevant phase of lecithin bilayers. Physical Review E, 1998, 58, 7769-7776.	2.1	56
84	Interbilayer interactions from high-resolution x-ray scattering. Physical Review E, 1998, 57, 7014-7024.	2.1	247
85	Structure of gel phase saturated lecithin bilayers: temperature and chain length dependence. Biophysical Journal, 1996, 71, 885-891.	0.5	145
86	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.	0.5	126
87	X-ray structure determination of fully hydrated L alpha phase dipalmitoylphosphatidylcholine bilayers. Biophysical Journal, 1996, 70, 1419-1431.	0.5	454
88	Anomalous phase behavior of long chain saturated lecithin bilayers. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1279, 17-24.	2.6	29
89	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.	7.1	123
90	Critical Fluctuations in Membranes. Physical Review Letters, 1995, 74, 2832-2835.	7.8	73

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91	The first synthesis and new properties of regioregular, head-to-tail coupled polythiophenes. Synthetic Metals, 1995, 69, 279-282.	3.9	82
92	X-ray Diffraction Study of Three 19F-Labeled Dimyristoylphosphatidylcholines. The Journal of Physical Chemistry, 1994, 98, 4469-4472.	2.9	3
93	Order and disorder in fully hydrated unoriented bilayers of gel-phase dipalmitoylphosphatidylcholine. Physical Review E, 1994, 49, 4665-4676.	2.1	204
94	Kinetics of subgel formation in DPPC: X-ray diffraction proves nucleation-growth hypothesis. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1191, 14-20.	2.6	43
95	Self-orienting head-to-tail poly(3-alkylthiophenes): new insights on structure-property relationships in conducting polymers. Journal of the American Chemical Society, 1993, 115, 4910-4911.	13.7	686
96	Synthesis and physical properties of regiochemically well-defined, head-to-tail coupled poly(3-alkylthiophenes). Synthetic Metals, 1993, 55, 1198-1203.	3.9	63
97	Measurement of chain tilt angle in fully hydrated bilayers of gel phase lecithins. Biophysical Journal, 1993, 64, 1097-1109.	0.5	259
98	Synthesis and Physical Properties of Self-Orienting Head-To-Tail Polythiophenes.. Materials Research Society Symposia Proceedings, 1993, 328, 215.	0.1	4
99	A Thermotropic Study of 1-Deoxy-1- (N-methyloctanamido)-D-glucitol (MEGA-8) Using Microscopy, Calorimetry and X-Ray Diffraction. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 188, 41-56.	0.3	2
100	Microcalorimetry, Fluorescence, and Fractionation Study of Yeast Alcohol Dehydrogenase: Stability and Heterogeneity Implications. Biotechnology Progress, 1989, 5, 164-171.	2.6	6
101	Specific volumes of lipids in fully hydrated bilayer dispersions. Biochimica Et Biophysica Acta - Biomembranes, 1988, 938, 135-142.	2.6	95
102	Kinetics of the subtransition in dipalmitoylphosphatidylcholine. Biochemistry, 1987, 26, 4288-4294.	2.5	89
103	Thermodynamic studies of purple membrane. Biochimica Et Biophysica Acta - Biomembranes, 1986, 854, 58-66.	2.6	28
104	Hydrogen bonded chain mechanisms for proton conduction and proton pumping. Journal of Membrane Biology, 1983, 74, 1-14.	2.1	374
105	MOLECULAR ASPECTS OF LIGHT-INDUCED UPTAKE AND RELEASE OF PROTONS BY PURPLE MEMBRANES. Photochemistry and Photobiology, 1981, 33, 579-585.	2.5	13
106	Isotope effects and activation parameters for chemically modified bacteriorhodopsin. FEBS Letters, 1980, 117, 359-362.	2.8	8
107	THE EFFECT OF CROSS-LINKING ON PHOTOCYCLING ACTIVITY OF BACTERIORHODOPSIN. Photochemistry and Photobiology, 1979, 29, 353-358.	2.5	26
108	Chemical modification of purple membranes: role of arginine and carboxylic acid residues in bacteriorhodopsin. FEBS Letters, 1979, 108, 243-248.	2.8	40

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109	Preparation of Oriented, Fully Hydrated Lipid Samples for Structure Determination Using X-Ray Scattering. , 0, , 63-76.		3