John Katsaras

List of Publications by Citations

170 papers	7,843 citations	50 h-index	82 g-index
208 ext. papers	9,037 ext. citations	3.7 avg, IF	6.08 L-index

#	Paper	IF	Citations
170	Fluid phase lipid areas and bilayer thicknesses of commonly used phosphatidylcholines as a function of temperature. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 2761-71	3.8	679
169	Lipid bilayer structure determined by the simultaneous analysis of neutron and X-ray scattering data. *Biophysical Journal*, **2008**, 95, 2356-67	2.9	435
168	Bilayer thickness mismatch controls domain size in model membranes. *Journal of the American Chemical Society*, **2013**, 135, 6853-9	16.4	220
167	Cholesterol shows preference for the interior of polyunsaturated lipid membranes. *Journal of the American Chemical Society*, **2008**, 130, 10-1	16.4	179
166	Molecular structures of fluid phase phosphatidylglycerol bilayers as determined by small angle neutron and X-ray scattering. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2135-48	3.8	147
165	The location and behavior of alpha-tocopherol in membranes. *Molecular Nutrition and Food Research*, **2010**, 54, 641-51	5.9	134
164	Structure and Interactions in the Anomalous Swelling Regime of Phospholipid Bilayers *Langmuir*, **2003**, 19, 1716-1722	4	129
163	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, 2792-805	2.9	128
162	Method for obtaining structure and interactions from oriented lipid bilayers. *Physical Review E*, **2001**, 63, 011907	2.4	121
161	Cholesterol hydroxyl group is found to reside in the center of a polyunsaturated lipid membrane. *Biochemistry*, **2006**, 45, 1227-33	3.2	118
160	Location of Cholesterol in DMPC Membranes. A Comparative Study by Neutron Diffraction and Molecular Mechanics Simulation *Langmuir*, **2001**, 17, 2019-2030	4	118
159	SANS Study of the Structural Phases of Magnetically Alignable Lanthanide-Doped Phospholipid Mixtures. *Langmuir*, **2001**, 17, 2629-2638	4	114
158	Morphology of fast-tumbling bicelles: a small angle neutron scattering and NMR study. *Biochimica Et Biophysica Acta - Biomembranes*, **2001**, 1513, 83-94	3.8	113
157	Curvature effect on the structure of phospholipid bilayers. *Langmuir*, **2007**, 23, 1292-9	4	107
156	SANS study on the effect of lanthanide ions and charged lipids on the morphology of phospholipid mixtures. Small-angle neutron scattering. *Biophysical Journal*, **2002**, 82, 2487-98	2.9	106
155	Magnetically alignable phase of phospholipid "bicelle" mixtures is a chiral nematic made up of wormlike micelles. *Langmuir*, **2004**, 20, 7893-7	4	105
154	"Bicellar" lipid mixtures as used in biochemical and biophysical studies. *Die Naturwissenschaften*, **2005**, 92, 355-66	2	105

153	Cholesterol is found to reside in the center of a polyunsaturated lipid membrane. *Biochemistry*, **2008**, 47, 7090-6	3.2	96
152	Oblique membrane insertion of viral fusion peptide probed by neutron diffraction. *Biochemistry*, **2000**, 39, 6581-5	3.2	94
151	Phase behavior and domain size in sphingomyelin-containing lipid bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1302-13	3.8	93
150	Tocopherol activity correlates with its location in a membrane: a new perspective on the antioxidant vitamin E. *Journal of the American Chemical Society*, **2013**, 135, 7523-33	16.4	93
149	Comprehensive examination of mesophases formed by DMPC and DHPC mixtures. *Langmuir*, **2005**, 21, 5356-61	4	93
148	The in vivo structure of biological membranes and evidence for lipid domains. *PLoS Biology*, **2017**, 15, e2002214	9.7	91
147	Cholesterol in bilayers with PUFA chains: doping with DMPC or POPC results in sterol reorientation and membrane-domain formation. *Biochemistry*, **2010**, 49, 7485-93	3.2	90
146	Adsorbed to a rigid substrate, dimyristoylphosphatidylcholine multibilayers attain full hydration in all mesophases. *Biophysical Journal*, **1998**, 75, 2157-62	2.9	90
145	The Observation of Highly Ordered Domains in Membranes with Cholesterol. *PLoS ONE*, **2013**, 8, e66162	3.7	87
144	Areas of monounsaturated diacylphosphatidylcholines. *Biophysical Journal*, **2009**, 97, 1926-32	2.9	84
143	Comparing membrane simulations to scattering experiments: introducing the SIMtoEXP software. *Journal of Membrane Biology*, **2010**, 235, 43-50	2.3	84
142	Mechanical Properties of Nanoscopic Lipid Domains. *Journal of the American Chemical Society*, **2015**, 137, 15772-80	16.4	81
141	Subnanometer Structure of an Asymmetric Model Membrane: Interleaflet Coupling Influences Domain Properties. *Langmuir*, **2016**, 32, 5195-200	4	79
140	Preparation of asymmetric phospholipid vesicles for use as cell membrane models. *Nature Protocols*, **2018**, 13, 2086-2101	18.8	79
139	The Effect of Melatonin and Azithromycin on Model Pulmonary Membranes. *Biophysical Journal*, **2021**, 120, 226a	2.9	78
138	Bilayer thickness and thermal response of dimyristoylphosphatidylcholine unilamellar vesicles containing cholesterol, ergosterol and lanosterol: a small-angle neutron scattering study. *Biochimica Et Biophysica Acta - Biomembranes*, **2005**, 1720, 84-91	3.8	77
137	Chain conformation of a new class of PEG-based thermoresponsive polymer brushes grafted on silicon as determined by neutron reflectometry. *Langmuir*, **2009**, 25, 10271-8	4	74
136	Scattering density profile model of POPG bilayers as determined by molecular dynamics simulations and small-angle neutron and X-ray scattering experiments. *Journal of Physical Chemistry B*, **2012**, 116, 232-9	3.4	72

135	Structure and water permeability of fully hydrated diphytanoylPC. *Chemistry and Physics of Lipids*, **2010**, 163, 630-7	3.7	72
134	How cholesterol stiffens unsaturated lipid membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 21896-21905	11.5	71
133	Effect of cations on the structure of bilayers formed by lipopolysaccharides isolated from Pseudomonas aeruginosa PAO1. *Journal of Physical Chemistry B*, **2008**, 112, 8057-62	3.4	67
132	H NMR Shows Slow Phospholipid Flip-Flop in Gel and Fluid Bilayers. *Langmuir*, **2017**, 33, 3731-3741	4	65
131	The molecular structure of a phosphatidylserine bilayer determined by scattering and molecular dynamics simulations. *Soft Matter*, **2014**, 10, 3716-25	3.6	64
130	Cholesterol's location in lipid bilayers. *Chemistry and Physics of Lipids*, **2016**, 199, 17-25	3.7	62
129	Entropy-driven softening of fluid lipid bilayers by alamethicin. *Langmuir*, **2007**, 23, 11705-11	4	60
128	Molecular structures of fluid phosphatidylethanolamine bilayers obtained from simulation-to-experiment comparisons and experimental scattering density profiles. *Journal of Physical Chemistry B*, **2015**, 119, 1947-56	3.4	59
127	Hybrid and nonhybrid lipids exert common effects on membrane raft size and morphology. *Journal of the American Chemical Society*, **2013**, 135, 14932-5	16.4	58
126	Spontaneously formed unilamellar vesicles with path-dependent size distribution. *Langmuir*, **2005**, 21, 6656-61	4	57
125	Neutron Scattering in Biology **2006**,		54
124	Description of Hydration Water in Protein (Green Fluorescent Protein) Solution. *Journal of the American Chemical Society*, **2017**, 139, 1098-1105	16.4	53
123	Model-based approaches for the determination of lipid bilayer structure from small-angle neutron and X-ray scattering data. *European Biophysics Journal*, **2012**, 41, 875-90	1.9	53
122	Method of separated form factors for polydisperse vesicles. *Journal of Applied Crystallography*, **2006**, 39, 293-303	3.8	51
121	Absence of a vestigial vapor pressure paradox. *Physical Review E*, **1999**, 59, 7018-24	2.4	50
120	Line Tension Controls Liquid-Disordered + Liquid-Ordered Domain Size Transition in Lipid Bilayers. *Biophysical Journal*, **2017**, 112, 1431-1443	2.9	49
119	Lipid Bilayers **2001**,		49
118	Structural and mechanical properties of cardiolipin lipid bilayers determined using neutron spin echo, small angle neutron and X-ray scattering, and molecular dynamics simulations. *Soft Matter*, **2015**, 11, 130-8	3.6	48

117	Structure and Hydration of Highly-Branched, Monodisperse Phytoglycogen Nanoparticles. *Biomacromolecules*, **2016**, 17, 735-43	6.9	48
116	Water distribution in multilayers of weak polyelectrolytes. *Langmuir*, **2006**, 22, 5137-43	4	48
115	Global small-angle X-ray scattering data analysis for multilamellar vesicles: the evolution of the scattering density profile model. *Journal of Applied Crystallography*, **2014**, 47, 173-180	3.8	47
114	Highly stable phospholipid unilamellar vesicles from spontaneous vesiculation: A DLS and SANS study. *Journal of Physical Chemistry B*, **2005**, 109, 609-16	3.4	47
113	On scattered waves and lipid domains: detecting membrane rafts with X-rays and neutrons. *Soft Matter*, **2015**, 11, 9055-72	3.6	46
112	Effect of cholesterol on the lateral nanoscale dynamics of fluid membranes. *European Biophysics Journal*, **2012**, 41, 901-13	1.9	46
111	Modulation of the Polymorphism of the Palmitic Acid/Cholesterol System by the pH. *Langmuir*, **2003**, 19, 1089-1097	4	45
110	Lipid bilayer thickness determines cholesterol's location in model membranes. *Soft Matter*, **2016**, 12, 9417-9428	3.6	45
109	Interactions of the anticancer drug tamoxifen with lipid membranes. *Biophysical Journal*, **2015**, 108, 2492-2501	2.9	44
108	Intrinsic Curvature-Mediated Transbilayer Coupling in Asymmetric Lipid Vesicles. *Biophysical Journal*, **2018**, 114, 146-157	2.9	44
107	Docosahexaenoic acid regulates the formation of lipid rafts: A unified view from experiment and simulation. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1985-1993	3.8	44
106	Structural Significance of Lipid Diversity as Studied by Small Angle Neutron and X-ray Scattering. *Membranes*, **2015**, 5, 454-72	3.8	44
105	The functional significance of lipid diversity: orientation of cholesterol in bilayers is determined by lipid species. *Journal of the American Chemical Society*, **2009**, 131, 16358-9	16.4	44
104	Neutron diffraction study of Pseudomonas aeruginosa lipopolysaccharide bilayers. *Journal of Physical Chemistry B*, **2007**, 111, 2477-83	3.4	43
103	Nanosecond lipid dynamics in membranes containing cholesterol. *Soft Matter*, **2014**, 10, 2600-11	3.6	38
102	What determines the thickness of a biological membrane. *General Physiology and Biophysics*, **2009**, 28, 117-25	2.1	38
101	Joint small-angle X-ray and neutron scattering data analysis of asymmetric lipid vesicles. *Journal of Applied Crystallography*, **2017**, 50, 419-429	3.8	37
100	The study of liposomes, lamellae and membranes using neutrons and X-rays. *Current Opinion in Colloid and Interface Science*, **2007**, 12, 17-22	7.6	37

99	Direct evidence for the partial dehydration of phosphatidylethanolamine bilayers on approaching the hexagonal phase. *Biochemistry*, **1993**, 32, 10700-7	3.2	37
98	Revisiting the bilayer structures of fluid phase phosphatidylglycerol lipids: Accounting for exchangeable hydrogens. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 2966-9	3.8	34
97	Dimyristoyl phosphatidylcholine: a remarkable exception to Œtocopherol's membrane presence. *Journal of the American Chemical Society*, **2014**, 136, 203-10	16.4	34
96	Temperature driven annealing of perforations in bicellar model membranes. *Langmuir*, **2011**, 27, 4838-47	4	34
95	Formation of kinetically trapped nanoscopic unilamellar vesicles from metastable nanodiscs. *Langmuir*, **2011**, 27, 14308-16	4	32
94	Gramicidin Increases Lipid Flip-Flop in Symmetric and Asymmetric Lipid Vesicles. *Biophysical Journal* , **2019**, 116, 860-873	2.9	31
93	Morphological characterization of DMPC/CHAPSO bicellar mixtures: a combined SANS and NMR study. *Langmuir*, **2013**, 29, 15943-57	4	31
92	Ion distribution in multilayers of weak polyelectrolytes: A neutron reflectometry study. *Journal of Chemical Physics*, **2008**, 129, 084901	3.9	31
91	Neutron scattering in the biological sciences: progress and prospects. *Acta Crystallographica Section D: Structural Biology*, **2018**, 74, 1129-1168	5.5	31
90	Œtocopherol Is Well Designed to Protect Polyunsaturated Phospholipids: MD Simulations. *Biophysical Journal*, **2015**, 109, 1608-18	2.9	30
89	Interactions between ether phospholipids and cholesterol as determined by scattering and molecular dynamics simulations. *Journal of Physical Chemistry B*, **2012**, 116, 14829-38	3.4	30
88	Using small-angle neutron scattering to detect nanoscopic lipid domains. *Chemistry and Physics of Lipids*, **2013**, 170-171, 19-32	3.7	30
87	Spontaneously formed unilamellar vesicles. *Methods in Enzymology*, **2009**, 465, 3-20	1.7	28
86	Characterization of protein resistant, grafted methacrylate polymer layers bearing oligo(ethylene glycol) and phosphorylcholine side chains by neutron reflectometry. *Biointerphases*, **2007**, 2, 34-43	1.8	28
85	Effect of the hydrophilic size on the structural phases of aqueous nonionic gemini surfactant solutions. *Langmuir*, **2004**, 20, 9061-8	4	27
84	Calcium and Zinc Differentially Affect the Structure of Lipid Membranes. *Langmuir*, **2017**, 33, 3134-3141	4	26
83	Asymmetric distribution of cholesterol in unilamellar vesicles of monounsaturated phospholipids. *Langmuir*, **2009**, 25, 13522-7	4	26
82	Œtocopherol's Location in Membranes Is Not Affected by Their Composition. *Langmuir*, **2015**, 31, 4464-72	4	25

81	Monolayer film behavior of lipopolysaccharide from Pseudomonas aeruginosa at the air-water interface. *Biomacromolecules*, **2008**, 9, 2799-804	6.9	24
80	Bacillus subtilis Lipid Extract, A Branched-Chain Fatty Acid Model Membrane. *Journal of Physical Chemistry Letters*, **2017**, 8, 4214-4217	6.4	23
79	Neutron and X-ray scattering for biophysics and biotechnology: examples of self-assembled lipid systems. *Soft Matter*, **2009**, 5, 2694	3.6	23
78	Comparison of solution structures and stabilities of native, partially unfolded and partially refolded pepsin. *Biochemistry*, **2006**, 45, 13982-92	3.2	23
77	Flexible approach to vibrational sum-frequency generation using shaped near-infrared light. *Optics Letters*, **2018**, 43, 2038-2041	3	23
76	Cholesterol Promotes Protein Binding by Affecting Membrane Electrostatics and Solvation Properties. *Biophysical Journal*, **2017**, 113, 2004-2015	2.9	22
75	Small unilamellar vesicles: a platform technology for molecular imaging of brain tumors. *Nanotechnology*, **2011**, 22, 195102	3.4	22
74	Scattering from laterally heterogeneous vesicles. II. The form factor. *Journal of Applied Crystallography*, **2007**, 40, 513-525	3.8	22
73	Growth kinetics of lipid-based nanodiscs to unilamellar vesicles-a time-resolved small angle neutron scattering (SANS) study. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1025-35	3.8	21
72	Interaction of the full-length Bax protein with biomimetic mitochondrial liposomes: a small-angle neutron scattering and fluorescence study. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 384-401	3.8	21
71	Effects of charge density and thermal history on the morphologies of spontaneously formed unilamellar vesicles. *Journal of Physical Chemistry B*, **2010**, 114, 5729-35	3.4	21
70	Small-angle neutron scattering to detect rafts and lipid domains. *Methods in Molecular Biology*, **2007**, 398, 231-44	1.4	20
69	Water and Lipid Bilayers. *Sub-Cellular Biochemistry*, **2015**, 71, 45-67	5.5	19
68	Peptide-Induced Lipid Flip-Flop in Asymmetric Liposomes Measured by Small Angle Neutron Scattering. *Langmuir*, **2019**, 35, 11735-11744	4	19
67	Capacitive Detection of Low-Enthalpy, Higher-Order Phase Transitions in Synthetic and Natural Composition Lipid Membranes. *Langmuir*, **2017**, 33, 10016-10026	4	19
66	Structural relaxation, viscosity, and network connectivity in a hydrogen bonding liquid. *Physical Chemistry Chemical Physics*, **2017**, 19, 25859-25869	3.6	19
65	Effects of Nanoparticle Morphology and Acyl Chain Length on Spontaneous Lipid Transfer Rates. *Langmuir*, **2015**, 31, 12920-8	4	19
64	Bicellar mixtures containing pluronic F68: morphology and lateral diffusion from combined SANS and PFG NMR studies. *Langmuir*, **2010**, 26, 2630-8	4	19

63	Controlled release mechanisms of spontaneously forming unilamellar vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 1467-71	3.8	19
62	The influence of curvature on membrane domains. *European Biophysics Journal*, **2008**, 37, 665-71	1.9	18
61	Scattering from laterally heterogeneous vesicles. I. Model-independent analysis. *Journal of Applied Crystallography*, **2006**, 39, 791-796	3.8	18
60	Lipid Rafts: Buffers of Cell Membrane Physical Properties. *Journal of Physical Chemistry B*, **2019**, 123, 2050-2056	3.4	18
59	Phosphatidylserine Asymmetry Promotes the Membrane Insertion of a Transmembrane Helix. *Biophysical Journal*, **2019**, 116, 1495-1506	2.9	17
58	Molecular Picture of the Transient Nature of Lipid Rafts. *Langmuir*, **2020**, 36, 4887-4896	4	17
57	A Computational Approach for Modeling Neutron Scattering Data from Lipid Bilayers. *Journal of Chemical Theory and Computation*, **2017**, 13, 916-925	6.4	15
56	Deciphering Melatonin-Stabilized Phase Separation in Phospholipid Bilayers. *Langmuir*, **2019**, 35, 12236-12245	4	15
55	Structure from substrate supported lipid bilayers (Review). *Biointerphases*, **2008**, 3, FB55	1.8	15
54	Structural Phase Behavior of High-Concentration, Alignable Biomimetic Bicelle Mixtures. *Macromolecular Symposia*, **2005**, 219, 135-146	0.8	15
53	Polymorphism in myristoylpalmitoylphosphatidylcholine. *Chemistry and Physics of Lipids*, **1999**, 100, 101-13	3.7	15
52	Elasticity and Inverse Temperature Transition in Elastin. *Journal of Physical Chemistry Letters*, **2015**, 6, 4018-25	6.4	14
51	Behavior of Bilayer Leaflets in Asymmetric Model Membranes: Atomistic Simulation Studies. *Journal of Physical Chemistry B*, **2016**, 120, 8438-48	3.4	14
50	Lipid-based nanodiscs as models for studying mesoscale coalescence--a transport limited case. *Soft Matter*, **2014**, 10, 5055-60	3.6	13
49	Scattering from phase-separated vesicles. I. An analytical form factor for multiple static domains. *Journal of Applied Crystallography*, **2015**, 48, 1391-1404	3.8	12
48	Molecular Structure of Sphingomyelin in Fluid Phase Bilayers Determined by the Joint Analysis of Small-Angle Neutron and X-ray Scattering Data. *Journal of Physical Chemistry B*, **2020**, 124, 5186-5200	3.4	12
47	Small-Angle Scattering from Homogenous and Heterogeneous Lipid Bilayers. *Behavior Research Methods*, **2010**, 201-235	6.1	12
46	Spontaneously forming ellipsoidal phospholipid unilamellar vesicles and their interactions with helical domains of saposin C. *Langmuir*, **2006**, 22, 11028-33	4	11

45	Bicelles Rich in both Sphingolipids and Cholesterol and Their Use in Studies of Membrane Proteins. *Journal of the American Chemical Society*, **2020**, 142, 12715-12729	16.4	10
44	The antioxidant vitamin E as a membrane raft modulator: Tocopherols do not abolish lipid domains. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183189	3.8	10
43	Impact of purification conditions and history on A2A adenosine receptor activity: The role of CHAPS and lipids. *Protein Expression and Purification*, **2016**, 124, 62-7	2	10
42	Neutron diffraction studies of viral fusion peptides. *Physica B: Condensed Matter*, **2000**, 276-278, 495-498	2.8	10
41	Lateral heterogeneity and domain formation in cellular membranes. *Chemistry and Physics of Lipids*, **2020**, 232, 104976	3.7	10
40	The structures of polyunsaturated lipid bilayers by joint refinement of neutron and X-ray scattering data. *Chemistry and Physics of Lipids*, **2020**, 229, 104892	3.7	9
39	Neutron diffraction from aligned stacks of lipid bilayers using the WAND instrument. *Journal of Applied Crystallography*, **2018**, 51, 235-241	3.8	9
38	Structural simulation of free radical damage in a model membrane system: a small-angle X-ray diffraction study. *Biochimica Et Biophysica Acta - Biomembranes*, **1986**, 861, 243-250	3.8	9
37	Anomalous Nanoscale Optoacoustic Phonon Mixing in Nematic Mesogens. *Journal of Physical Chemistry Letters*, **2018**, 9, 2546-2553	6.4	8
36	Models for randomly distributed nanoscopic domains on spherical vesicles. *Physical Review E*, **2018**, 97, 062405	2.4	8
35	A structural study of the myristoylated N-terminus of ARF1. *Biochimica Et Biophysica Acta - Biomembranes*, **2005**, 1668, 138-44	3.8	8
34	Scattering from laterally heterogeneous vesicles. III. Reconciling past and present work. *Journal of Applied Crystallography*, **2007**, 40, 771-772	3.8	7
33	Morphology-Induced Defects Enhance Lipid Transfer Rates. *Langmuir*, **2016**, 32, 9757-64	4	7
32	Ion Pairing Mediates Molecular Organization Across Liquid/Liquid Interfaces. *ACS Applied Materials & Interfaces*, **2021**, 13, 33734-33743	9.5	7
31	Time-of-flight Bragg scattering from aligned stacks of lipid bilayers using the Liquids Reflectometer at the Spallation Neutron Source. *Journal of Applied Crystallography*, **2012**, 45, 1219-1227	3.8	6
30	Adapting a triple-axis spectrometer for small angle neutron scattering measurements. *Review of Scientific Instruments*, **2008**, 79, 095102	1.7	6
29	Soft Matter Sample Environments for Time-Resolved Small Angle Neutron Scattering Experiments: A Review. *Applied Sciences (Switzerland)*, **2021**, 11, 5566	2.6	6
28	Domains on a Sphere: Neutron Scattering, Models, and Mathematical Formalism. *Chemistry and Physics of Lipids*, **2019**, 222, 47-50	3.7	5

27	Biomembranes research using thermal and cold neutrons. *Chemistry and Physics of Lipids*, **2015**, 192, 41-50	3.7	5
26	2,2SBis(monoacylglycero) PO4 (BMP), but Not 3,1SBMP, increases membrane curvature stress to enhance -tocopherol transfer protein binding to membranes. *Lipids*, **2015**, 50, 323-8	1.6	5
25	The influence of curvature on domain distribution in binary mixture membranes. *Soft Matter*, **2019**, 15, 6642-6649	3.6	5
24	Formation mechanism of self-assembled unilamellar vesiclesSpecial issue on Neutron Scattering in Canada. *Canadian Journal of Physics*, **2010**, 88, 735-740	1.1	5
23	Solvent-induced membrane stress in biofuel production: molecular insights from small-angle scattering and all-atom molecular dynamics simulations. *Green Chemistry*, **2020**, 22, 8278-8288	10	5
22	Aligned Lipid Water Systems **2001**, 25-45		4
21	Structure, Hydration, and Interactions of Native and Hydrophobically Modified Phytoglycogen Nanoparticles. *Biomacromolecules*, **2020**, 21, 4053-4062	6.9	4
20	Biomembrane Structure and Material Properties Studied With Neutron Scattering. *Frontiers in Chemistry*, **2021**, 9, 642851	5	4
19	Reply to Nagle et al.: The universal stiffening effects of cholesterol on lipid membranes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
18	Nanoscale Q-Resolved Phonon Dynamics in Block Copolymers. *ACS Applied Nano Materials*, **2018**, 1, 4918-4926	5.9	4
17	Model Membrane Systems Used to Study Plasma Membrane Lipid Asymmetry.. *Symmetry*, **2021**, 13,	2.7	4
16	Fractal boundaries underpin the 2D melting of biomimetic rafts. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183249	3.8	3
15	Impact of Fatty-Acid Labeling of Membranes on the Cellular Lipidome and Proteome. *Frontiers in Microbiology*, **2020**, 11, 914	5.7	3
14	Spontaneously Forming Unilamellar Phospholipid Vesicles. *Macromolecular Symposia*, **2005**, 219, 123-134	0.8	3
13	Phonon-mediated lipid raft formation in biological membranes. *Chemistry and Physics of Lipids*, **2020**, 232, 104979	3.7	3
12	Laterally Resolved Small-Angle Scattering Intensity from Lipid Bilayer Simulations: An Exact and a Limited-Range Treatment. *Journal of Chemical Theory and Computation*, **2020**, 16, 5287-5300	6.4	3
11	Lipid Rafts in Bacteria: Structure and Function **2019**, 1-30		2
10	Geometry-Dependent Nonequilibrium Steady-State Diffusion and Adsorption of Lipid Vesicles in Micropillar Arrays. *Advanced Materials Interfaces*, **2019**, 6, 1900054	4.6	2

List of Publications

9	Molecular Structure of Phosphatidylglycerol Bilayers: Fluid Phase Lipid Areas and Bilayer Thicknesses as a Function of Temperature. *Biophysical Journal*, **2012**, 102, 504a	2.9	2
8	Squeezing Out Interfacial Solvation: The Role of Hydrogen-Bonding in the Structural and Orientational Freedom of Molecular Self-Assembly.. *Journal of Physical Chemistry Letters*, **2022**, 2273-2280	6.4	2
7	Double membrane formation in heterogeneous vesicles. *Soft Matter*, **2020**, 16, 8806-8817	3.6	1
6	Disentangling Memristive and Memcapacitive Effects in Droplet Interface Bilayers Using Dynamic Impedance Spectroscopy. *Advanced Electronic Materials*,2200121	6.4	1
5	A calorimetric, volumetric and combined SANS and SAXS study of hybrid siloxane phosphocholine bilayers. *Chemistry and Physics of Lipids*, **2021**, 241, 105149	3.7	0
4	Influence of ceramide on lipid domain stability studied with small-angle neutron scattering: The role of acyl chain length and unsaturation.. *Chemistry and Physics of Lipids*, **2022**, 245, 105205	3.7	0
3	Lipid membranes loaded with Ca2+ and Zn2+ cations. *Journal of Physics: Conference Series*, **2017**, 848, 012008	0.3	
2	Lipid Rafts in Bacteria: Structure and Function **2020**, 3-32		
1	Capacitive Detection of Low-Enthalpy, Higher-Order Phase Transitions in Synthetic and Natural Lipid Membranes. *Biophysical Journal*, **2018**, 114, 551a-552a	2.9	