

Sarah L Keller

List of Publications by Year in descending order

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52
papers

7,497
citations

126907

33
h-index

189892

50
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57
docs citations

57
times ranked

4891
citing authors

#	ARTICLE	IF	CITATIONS
1	Separation of Liquid Phases in Giant Vesicles of Ternary Mixtures of Phospholipids and Cholesterol. <i>Biophysical Journal</i> , 2003, 85, 3074-3083.	0.5	1,313
2	Seeing spots: Complex phase behavior in simple membranes. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2005, 1746, 172-185.	4.1	677
3	Organization in Lipid Membranes Containing Cholesterol. <i>Physical Review Letters</i> , 2002, 89, 268101.	7.8	609
4	Miscibility Phase Diagrams of Giant Vesicles Containing Sphingomyelin. <i>Physical Review Letters</i> , 2005, 94, 148101.	7.8	501
5	Entropically driven microphase transitions in mixtures of colloidal rods and spheres. <i>Nature</i> , 1998, 393, 349-352.	27.8	485
6	Critical fluctuations in domain-forming lipid mixtures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 17650-17655.	7.1	408
7	Line Tensions, Correlation Lengths, and Critical Exponents in Lipid Membranes Near Critical Points. <i>Biophysical Journal</i> , 2008, 95, 236-246.	0.5	305
8	Tuning lipid mixtures to induce or suppress domain formation across leaflets of unsupported asymmetric bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 124-128.	7.1	260
9	An introduction to critical points for biophysicists; observations of compositional heterogeneity in lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 53-63.	2.6	257
10	Diffusion of Liquid Domains in Lipid Bilayer Membranes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3328-3331.	2.6	247
11	Closed-Loop Miscibility Gap and Quantitative Tie-Lines in Ternary Membranes Containing Diphytanoyl PC. <i>Biophysical Journal</i> , 2006, 90, 4428-4436.	0.5	188
12	Nonequilibrium Behavior in Supported Lipid Membranes Containing Cholesterol. <i>Biophysical Journal</i> , 2004, 86, 2942-2950.	0.5	156
13	Sterol Structure Determines Miscibility versus Melting Transitions in Lipid Vesicles. <i>Biophysical Journal</i> , 2005, 89, 1760-1768.	0.5	137
14	A Closer Look at the Canonical "Raft Mixture"™ in Model Membrane Studies. <i>Biophysical Journal</i> , 2003, 84, 725-726.	0.5	118
15	On the Binding Preference of Human Groups IIA and X Phospholipases A2 for Membranes with Anionic Phospholipids. <i>Journal of Biological Chemistry</i> , 2002, 277, 48523-48534.	3.4	116
16	Miscibility of Ternary Mixtures of Phospholipids and Cholesterol in Monolayers, and Application to Bilayer Systems. <i>Biophysical Journal</i> , 2005, 88, 269-276.	0.5	114
17	Stripe Phases in Lipid Monolayers near a Miscibility Critical Point. <i>Physical Review Letters</i> , 1999, 82, 1602-1605.	7.8	107
18	Coarsening Dynamics of Domains in Lipid Membranes. <i>Biophysical Journal</i> , 2013, 105, 444-454.	0.5	102

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19	Polymerization of Nonlamellar Lipid Assemblies. <i>Journal of the American Chemical Society</i> , 1995, 117, 5573-5578.	13.7	100
20	Nucleobases bind to and stabilize aggregates of a prebiotic amphiphile, providing a viable mechanism for the emergence of protocells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13272-13276.	7.1	100
21	Phase Behavior of Lipid Monolayers Containing DPPC and Cholesterol Analogs. <i>Biophysical Journal</i> , 2006, 90, 3176-3183.	0.5	98
22	Endocytic proteins with prion-like domains form viscoelastic condensates that enable membrane remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	84
23	Hallmarks of Reversible Separation of Living, Unperturbed Cell Membranes into Two Liquid Phases. <i>Biophysical Journal</i> , 2017, 113, 2425-2432.	0.5	81
24	Prebiotic amino acids bind to and stabilize prebiotic fatty acid membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17239-17244.	7.1	79
25	Saturated Phospholipids with High Melting Temperatures Form Complexes with Cholesterol in Monolayers. <i>Journal of Physical Chemistry B</i> , 2000, 104, 7522-7527.	2.6	75
26	Experimental Observations of Dynamic Critical Phenomena in a Lipid Membrane. <i>Physical Review Letters</i> , 2012, 108, 265702.	7.8	71
27	Transbilayer Colocalization of Lipid Domains Explained via Measurement of Strong Coupling Parameters. <i>Biophysical Journal</i> , 2015, 109, 2317-2327.	0.5	70
28	Increasing Membrane Tension Decreases Miscibility Temperatures; an Experimental Demonstration via Micropipette Aspiration. <i>Biophysical Journal</i> , 2012, 103, L35-L37.	0.5	66
29	Direct imaging of liquid domains in membranes by cryo-electron tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19713-19719.	7.1	58
30	Solubility limits of cholesterol, lanosterol, ergosterol, stigmasterol, and β -sitosterol in electroformed lipid vesicles. <i>Soft Matter</i> , 2010, 6, 5882.	2.7	53
31	cDICE method produces giant lipid vesicles under physiological conditions of charged lipids and ionic solutions. <i>Soft Matter</i> , 2016, 12, 7364-7371.	2.7	51
32	Miscibility Critical Pressures in Monolayers of Ternary Lipid Mixtures. <i>Biophysical Journal</i> , 2000, 79, 2033-2042.	0.5	46
33	Minimal Effect of Lipid Charge on Membrane Miscibility Phase Behavior in Three Ternary Systems. <i>Biophysical Journal</i> , 2013, 104, 2629-2638.	0.5	46
34	Thickness Mismatch of Coexisting Liquid Phases in Noncanonical Lipid Bilayers. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2761-2770.	2.6	35
35	Depletion with Cyclodextrin Reveals Two Populations of Cholesterol in Model Lipid Membranes. <i>Biophysical Journal</i> , 2016, 110, 635-645.	0.5	33
36	Molecular Self-Assembly of Mixed High-Beta Zwitterionic and Neutral Ground-State NLO Chromophores. <i>Chemistry of Materials</i> , 2008, 20, 1778-1787.	6.7	31

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37	Miscibility Transitions and Lateral Compressibility in Liquid Phases of Lipid Monolayers. Langmuir, 2003, 19, 1451-1456.	3.5	30
38	Tuning Length Scales of Small Domains in Cell-Derived Membranes and Synthetic Model Membranes. Biophysical Journal, 2018, 115, 690-701.	0.5	24
39	n-Alcohol Length Governs Shift in Lo-Ld Mixing Temperatures in Synthetic and Cell-Derived Membranes. Biophysical Journal, 2017, 113, 1200-1211.	0.5	22
40	Mixing Temperatures of Bilayers Not Simply Related to Thickness Differences between Lo and Ld Phases. Biophysical Journal, 2016, 110, 2305-2308.	0.5	19
41	Interaction of nominally soluble proteins with phospholipid monolayers at the air-water interface. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 107-113.	2.6	18
42	Yeast cells actively tune their membranes to phase separate at temperatures that scale with growth temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
43	A Step toward Molecular Evolution of RNA: Ribose Binds to Prebiotic Fatty Acid Membranes, and Nucleosides Bind Better than Individual Bases Do. ChemBioChem, 2020, 21, 2764-2767.	2.6	13
44	Prebiotic Protocell Membranes Retain Encapsulated Contents during Flocculation, and Phospholipids Preserve Encapsulation during Dehydration. Langmuir, 2022, 38, 1304-1310.	3.5	12
45	Binding of Dipeptides to Fatty Acid Membranes Explains Their Colocalization in Protocells but Does Not Select for Them Relative to Unjoined Amino Acids. Journal of Physical Chemistry B, 2021, 125, 7933-7939.	2.6	10
46	Coexisting liquid phases in lipid monolayers and bilayers. Journal of Physics Condensed Matter, 2002, 14, 4763-4766.	1.8	5
47	Advice for New Faculty Teaching Undergraduate Science. Journal of Chemical Education, 2006, 83, 401.	2.3	5
48	Sequential folding of a rigid wire into three-dimensional structures. American Journal of Physics, 2004, 72, 599-604.	0.7	4
49	Phase diagrams and tie lines in giant unilamellar vesicles. , 2019, , 401-416.		4
50	Prebiotic Membranes and Micelles Do Not Inhibit Peptide Formation During Dehydration. ChemBioChem, 2022, 23, .	2.6	3
51	Ripples at edges of blooming lilies and torn plastic sheets. Biophysical Journal, 2022, 121, 2389-2397.	0.5	1
52	Dynamic Domains in Lipid Membranes near a Miscibility Critical Point. FASEB Journal, 2010, 24, .	0.5	0