Sarah L Keller

List of Publications by Year
in descending order

52 papers	7,497 citations	126907 33 h-index	189892 50 g-index
57 all docs	57 docs citations	57 times ranked	4891 citing authors

#	Article	IF	Citations
1	Prebiotic Protocell Membranes Retain Encapsulated Contents during Flocculation, and Phospholipids Preserve Encapsulation during Dehydration. Langmuir, 2022, 38, 1304-1310.	3.5	12
2	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
3	Prebiotic Membranes and Micelles Do Not Inhibit Peptide Formation During Dehydration. ChemBioChem, 2022, 23, .	2.6	3
4	Ripples at edges of blooming lilies and torn plastic sheets. Biophysical Journal, 2022, 121, 2389-2397.	0.5	1
5	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
6	Endocytic proteins with prion-like domains form viscoelastic condensates that enable membrane remodeling. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	84
7	Direct imaging of liquid domains in membranes by cryo-electron tomography. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19713-19719.	7.1	58
8	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
9	Prebiotic amino acids bind to and stabilize prebiotic fatty acid membranes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17239-17244.	7.1	79
10	Phase diagrams and tie lines in giant unilamellar vesicles. , 2019, , 401-416.		4
11	Tuning Length Scales of Small Domains in Cell-Derived Membranes and Synthetic ModelÂMembranes. Biophysical Journal, 2018, 115, 690-701.	0.5	24
12	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
13	Hallmarks of Reversible Separation of Living, Unperturbed Cell Membranes into Two Liquid Phases. Biophysical Journal, 2017, 113, 2425-2432.	0.5	81
14	Mixing Temperatures of Bilayers Not Simply Related to Thickness Differences between L o and L d Phases. Biophysical Journal, 2016, 110, 2305-2308.	0.5	19
15	cDICE method produces giant lipid vesicles under physiological conditions of charged lipids and ionic solutions. Soft Matter, 2016, 12, 7364-7371.	2.7	51
16	Depletion with Cyclodextrin Reveals Two Populations of Cholesterol in Model Lipid Membranes. Biophysical Journal, 2016, 110, 635-645.	0.5	33
17	Thickness Mismatch of Coexisting Liquid Phases in Noncanonical Lipid Bilayers. Journal of Physical Chemistry B, 2016, 120, 2761-2770.	2.6	35
18	Transbilayer Colocalization of Lipid Domains Explained via Measurement of Strong Coupling Parameters. Biophysical Journal, 2015, 109, 2317-2327.	0.5	70

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19	Nucleobases bind to and stabilize aggregates of a prebiotic amphiphile, providing a viable mechanism for the emergence of protocells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13272-13276.	7.1	100
20	Minimal Effect of Lipid Charge on Membrane Miscibility Phase Behavior inÂThree Ternary Systems. Biophysical Journal, 2013, 104, 2629-2638.	0.5	46
21	Coarsening Dynamics of Domains in Lipid Membranes. Biophysical Journal, 2013, 105, 444-454.	0.5	102
22	Experimental Observations of Dynamic Critical Phenomena in a Lipid Membrane. Physical Review Letters, 2012, 108, 265702.	7.8	71
23	Increasing Membrane Tension Decreases Miscibility Temperatures; an Experimental Demonstration via Micropipette Aspiration. Biophysical Journal, 2012, 103, L35-L37.	0.5	66
24	Solubility limits of cholesterol, lanosterol, ergosterol, stigmasterol, and Î²-sitosterol in electroformed lipid vesicles. Soft Matter, 2010, 6, 5882.	2.7	53
25	Dynamic Domains in Lipid Membranes near a Miscibility Critical Point. FASEB Journal, 2010, 24, .	0.5	0
26	An introduction to critical points for biophysicists; observations of compositional heterogeneity in lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 53-63.	2.6	257
27	Line Tensions, Correlation Lengths, and Critical Exponents in Lipid Membranes Near Critical Points. Biophysical Journal, 2008, 95, 236-246.	0.5	305
28	Molecular Self-Assembly of Mixed High-Beta Zwitterionic and Neutral Ground-State NLO Chromophores. Chemistry of Materials, 2008, 20, 1778-1787.	6.7	31
29	Tuning lipid mixtures to induce or suppress domain formation across leaflets of unsupported asymmetric bilayers. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 124-128.	7.1	260
30	Critical fluctuations in domain-forming lipid mixtures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17650-17655.	7.1	408
31	Diffusion of Liquid Domains in Lipid Bilayer Membranes. Journal of Physical Chemistry B, 2007, 111, 3328-3331.	2.6	247
32	Phase Behavior of Lipid Monolayers Containing DPPC and Cholesterol Analogs. Biophysical Journal, 2006, 90, 3176-3183.	0.5	98
33	Closed-Loop Miscibility Gap and Quantitative Tie-Lines in Ternary Membranes Containing Diphytanoyl PC. Biophysical Journal, 2006, 90, 4428-4436.	0.5	188
34	Advice for New Faculty Teaching Undergraduate Science. Journal of Chemical Education, 2006, 83, 401.	2.3	5
35	Seeing spots: Complex phase behavior in simple membranes. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1746, 172-185.	4.1	677
36	Miscibility of Ternary Mixtures of Phospholipids and Cholesterol in Monolayers, and Application to Bilayer Systems. Biophysical Journal, 2005, 88, 269-276.	0.5	114

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37	Sterol Structure Determines Miscibility versus Melting Transitions in Lipid Vesicles. Biophysical Journal, 2005, 89, 1760-1768.	0.5	137
38	Miscibility Phase Diagrams of Giant Vesicles Containing Sphingomyelin. Physical Review Letters, 2005, 94, 148101.	7.8	501
39	Sequential folding of a rigid wire into three-dimensional structures. American Journal of Physics, 2004, 72, 599-604.	0.7	4
40	Nonequilibrium Behavior in Supported Lipid Membranes Containing Cholesterol. Biophysical Journal, 2004, 86, 2942-2950.	0.5	156
41	Separation of Liquid Phases in Giant Vesicles of Ternary Mixtures of Phospholipids and Cholesterol. Biophysical Journal, 2003, 85, 3074-3083.	0.5	1,313
42	A Closer Look at the Canonical â€˜Raft Mixtureâ€™ in Model Membrane Studies. Biophysical Journal, 2003, 84, 725-726.	0.5	118
43	Miscibility Transitions and Lateral Compressibility in Liquid Phases of Lipid Monolayersâ€. Langmuir, 2003, 19, 1451-1456.	3.5	30
44	On the Binding Preference of Human Groups IIA and X Phospholipases A2 for Membranes with Anionic Phospholipids. Journal of Biological Chemistry, 2002, 277, 48523-48534.	3.4	116
45	Coexisting liquid phases in lipid monolayers and bilayers. Journal of Physics Condensed Matter, 2002, 14, 4763-4766.	1.8	5
46	Organization in Lipid Membranes Containing Cholesterol. Physical Review Letters, 2002, 89, 268101.	7.8	609
47	Interaction of nominally soluble proteins with phospholipid monolayers at the airâ€“water interface. Biochimica Et Biophysica Acta - Biomembranes, 2002, 1564, 107-113.	2.6	18
48	Miscibility Critical Pressures in Monolayers of Ternary Lipid Mixtures. Biophysical Journal, 2000, 79, 2033-2042.	0.5	46
49	Saturated Phospholipids with High Melting Temperatures Form Complexes with Cholesterol in Monolayers. Journal of Physical Chemistry B, 2000, 104, 7522-7527.	2.6	75
50	Stripe Phases in Lipid Monolayers near a Miscibility Critical Point. Physical Review Letters, 1999, 82, 1602-1605.	7.8	107
51	Entropically driven microphase transitions in mixtures of colloidal rods and spheres. Nature, 1998, 393, 349-352.	27.8	485
52	Polymerization of Nonlamellar Lipid Assemblies. Journal of the American Chemical Society, 1995, 117, 5573-5578.	13.7	100