Petra Schwille

List of Publications by Year
in descending order

302	25,812	78	147
papers	citations	h-index	g-index
		7096	8396

350	350	350	25151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ceramide Triggers Budding of Exosome Vesicles into Multivesicular Endosomes. Science, 2008, 319, 1244-1247.	12.6	2,800
2	Liposomes and polymersomes: a comparative review towards cell mimicking. Chemical Society Reviews, 2018, 47, 8572-8610.	38.1	731
3	Molecular Dynamics in Living Cells Observed by Fluorescence Correlation Spectroscopy with One- and Two-Photon Excitation. Biophysical Journal, 1999, 77, 2251-2265.	0.5	688
4	Fluorescence cross-correlation spectroscopy in living cells. Nature Methods, 2006, 3, 83-89.	19.0	570
5	GM1 structure determines SV40-induced membrane invagination and infection. Nature Cell Biology, 2010, 12, 11-18.	10.3	535
6	Spatial Regulators for Bacterial Cell Division Self-Organize into Surface Waves in Vitro. Science, 2008, 320, 789-792.	12.6	499
7	Elucidating membrane structure and protein behavior using giant plasma membrane vesicles. Nature Protocols, 2012, 7, 1042-1051.	12.0	461
8	Probing Lipid Mobility of Raft-exhibiting Model Membranes by Fluorescence Correlation Spectroscopy. Journal of Biological Chemistry, 2003, 278, 28109-28115.	3.4	451
9	Precise Measurement of Diffusion Coefficients using Scanning Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 94, 1437-1448.	0.5	442
10	Fluorescence correlation spectroscopy in living cells. Nature Methods, 2007, 4, 963-973.	19.0	393
11	From The Cover: Sterol structure determines the separation of phases and the curvature of the liquid-ordered phase in model membranes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3272-3277.	7.1	381
12	Effect of Line Tension on the Lateral Organization of Lipid Membranes. Journal of Biological Chemistry, 2007, 282, 33537-33544.	3.4	352
13	Characterization of Photoinduced Isomerization and Back-Isomerization of the Cyanine Dye Cy5 by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry A, 2000, 104, 6416-6428.	2.5	347
14	Plasma membranes are poised for activation of raft phase coalescence at physiological temperature. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10005-10010.	7.1	338
15	Fgf8 morphogen gradient forms by a source-sink mechanism with freely diffusing molecules. Nature, 2009, 461, 533-536.	27.8	335
16	Fluorescence Correlation Spectroscopy and Its Potential for Intracellular Applications. Cell Biochemistry and Biophysics, 2001, 34, 383-408.	1.8	318
17	Importin 8 Is a Gene Silencing Factor that Targets Argonaute Proteins to Distinct mRNAs. Cell, 2009, 136, 496-507.	28.9	306
18	Partitioning, diffusion, and ligand binding of raft lipid analogs in model and cellular plasma membranes. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1777-1784.	2.6	301

#	Article	IF	Citations
19	Fluorescence Correlation Spectroscopy Relates Rafts in Model and Native Membranes. Biophysical Journal, 2004, 87, 1034-1043.	0.5	299
20	Lipids as Modulators of Proteolytic Activity of BACE. Journal of Biological Chemistry, 2005, 280, 36815-36823.	3.4	260
21	Practical guidelines for dual-color fluorescence cross-correlation spectroscopy. Nature Protocols, 2007, 2, 2842-2856.	12.0	258
22	Efficient Inhibition of the Alzheimer's Disease Î²-Secretase by Membrane Targeting. Science, 2008, 320, 520-523.	12.6	254
23	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. Nature Materials, 2013, 12, 359-366.	27.5	240
24	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392.	13.8	234
25	Effects of Ceramide on Liquid-Ordered Domains Investigated by Simultaneous AFM and FCS. Biophysical Journal, 2006, 90, 4500-4508.	0.5	225
26	An Integrated Microfluidic System for Reaction, High-Sensitivity Detection, and Sorting of Fluorescent Cells and Particles. Analytical Chemistry, 2003, 75, 5767-5774.	6.5	224
27	Lipid Dynamics and Domain Formation in Model Membranes Composed of Ternary Mixtures of Unsaturated and Saturated Phosphatidylcholines and Cholesterol. Biophysical Journal, 2003, 85, 3758-3768.	0.5	211
28	Fluorescence correlation spectroscopy. BioEssays, 2012, 34, 361-368.	2.5	207
29	Bottom-Up Synthetic Biology: Engineering in a Tinkererâ€™s World. Science, 2011, 333, 1252-1254.	12.6	203
30	Combined AFM and Two-Focus SFCS Study of Raft-Exhibiting Model Membranes. ChemPhysChem, 2006, 7, 2409-2418.	2.1	197
31	Loss-of-function mutations in the IL-21 receptor gene cause a primary immunodeficiency syndrome. Journal of Experimental Medicine, 2013, 210, 433-443.	8.5	186
32	Min protein patterns emerge from rapid rebinding and membrane interaction of MinE. Nature Structural and Molecular Biology, 2011, 18, 577-583.	8.2	182
33	A New Embedded Process for Compartmentalized Cell-Free Protein Expression and On-line Detection in Microfluidic Devices. ChemBioChem, 2005, 6, 811-814.	2.6	180
34	Studying Slow Membrane Dynamics with Continuous Wave Scanning Fluorescence Correlation Spectroscopy. Biophysical Journal, 2006, 91, 1915-1924.	0.5	179
35	Kinetic investigations by fluorescence correlation spectroscopy: The analytical and diagnostic potential of diffusion studies. Biophysical Chemistry, 1997, 66, 211-228.	2.8	174
36	Fluorescence correlation spectroscopy and fluorescence cross-correlation spectroscopy reveal the cytoplasmic origination of loaded nuclear RISC in vivo in human cells. Nucleic Acids Research, 2008, 36, 6439-6449.	14.5	173

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37	Membrane sculpting by curved DNA origami scaffolds. Nature Communications, 2018, 9, 811.	12.8	173
38	Accurate Determination of Membrane Dynamics with Line-Scan FCS. Biophysical Journal, 2009, 96, 1999-2008.	0.5	166
39	Probing the Endocytic Pathway in Live Cells Using Dual-Color Fluorescence Cross-Correlation Analysis. Biophysical Journal, 2002, 83, 1184-1193.	0.5	165
40	Translational Diffusion in Lipid Membranes beyond the Saffman-DelbrÃ¼ck Approximation. Biophysical Journal, 2008, 94, L41-L43.	0.5	160
41	Fluorescence correlation spectroscopy for the detection and study of single molecules in biology. BioEssays, 2002, 24, 758-764.	2.5	159
42	Functional convergence of hopanoids and sterols in membrane ordering. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14236-14240.	7.1	154
43	SNAREs Prefer Liquid-disordered over â€œRaftâ€•(Liquid-ordered) Domains When Reconstituted into Giant Unilamellar Vesicles. Journal of Biological Chemistry, 2004, 279, 37951-37955.	3.4	145
44	Cholesterol and Sphingomyelin Drive Ligand-independent T-cell Antigen Receptor Nanoclustering. Journal of Biological Chemistry, 2012, 287, 42664-42674.	3.4	145
45	Beating Vesicles: Encapsulated Protein Oscillations Cause Dynamic Membrane Deformations. Angewandte Chemie - International Edition, 2018, 57, 16286-16290.	13.8	142
46	Modular scanning FCS quantifies receptor-ligand interactions in living multicellular organisms. Nature Methods, 2009, 6, 643-645.	19.0	132
47	A protease assay for two-photon crosscorrelation and FRET analysis based solely on fluorescent proteins. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12161-12166.	7.1	131
48	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. Biophysical Journal, 2007, 93, 103-112.	0.5	128
49	Spatial Two-Photon Fluorescence Cross-Correlation Spectroscopy for Controlling Molecular Transport in Microfluidic Structures. Analytical Chemistry, 2002, 74, 4472-4479.	6.5	125
50	Equinatoxin II Permeabilizing Activity Depends on the Presence of Sphingomyelin and Lipid Phase Coexistence. Biophysical Journal, 2008, 95, 691-698.	0.5	125
51	Protein Self-Organization: Lessons from the Min System. Annual Review of Biophysics, 2011, 40, 315-336.	10.0	124
52	Reconstitution of self-organizing protein gradients as spatial cues in cell-free systems. ELife, 2014, 3, .	6.0	124
53	Intracellular calmodulin availability accessed with two-photon cross-correlation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 105-110.	7.1	123
54	New concepts for fluorescence correlation spectroscopy on membranes. Physical Chemistry Chemical Physics, 2008, 10, 3487.	2.8	117

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55	Membrane promotes tBID interaction with BCLXL. Nature Structural and Molecular Biology, 2009, 16, 1178-1185.	8.2	116
56	Two-Photon Cross-Correlation Analysis of Intracellular Reactions with Variable Stoichiometry. Biophysical Journal, 2005, 88, 4319-4336.	0.5	115
57	Geometry sensing by self-organized protein patterns. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15283-15288.	7.1	115
58	Myosin motors fragment and compact membrane-bound actin filaments. ELife, 2013, 2, e00116.	6.0	115
59	Raft Domain Reorganization Driven by Short- and Long-Chain Ceramide:â€‰ A Combined AFM and FCS Study. Langmuir, 2007, 23, 7659-7665.	3.5	112
60	Synthetic biology of minimal systems. Critical Reviews in Biochemistry and Molecular Biology, 2009, 44, 223-242.	5.2	111
61	Asymmetric GUVs Prepared by MÎ²CD-Mediated Lipid Exchange: An FCS Study. Biophysical Journal, 2011, 100, L1-L3.	0.5	109
62	Amphipathic DNA Origami Nanoparticles to Scaffold and Deform Lipid Membrane Vesicles. Angewandte Chemie - International Edition, 2015, 54, 6501-6505.	13.8	107
63	An order of magnitude faster DNA-PAINT imaging by optimized sequence design and buffer conditions. Nature Methods, 2019, 16, 1101-1104.	19.0	102
64	Lypd6 Enhances Wnt/Î²-Catenin Signaling by Promoting Lrp6 Phosphorylation in Raft Plasma Membrane Domains. Developmental Cell, 2013, 26, 331-345.	7.0	101
65	Excitation Spectra and Brightness Optimization of Two-Photon Excited Probes. Biophysical Journal, 2012, 102, 934-944.	0.5	100
66	Near-Critical Fluctuations and Cytoskeleton-Assisted Phase Separation Lead to Subdiffusion in Cell Membranes. Biophysical Journal, 2011, 100, 80-89.	0.5	98
67	Light-Induced Flickering of DsRed Provides Evidence for Distinct and Interconvertible Fluorescent States. Biophysical Journal, 2001, 81, 1776-1785.	0.5	96
68	Yeast Lipids Can Phase-separate into Micrometer-scale Membrane Domains. Journal of Biological Chemistry, 2010, 285, 30224-30232.	3.4	96
69	Adaptive Lipid Packing and Bioactivity in Membrane Domains. PLoS ONE, 2015, 10, e0123930.	2.5	96
70	Reconstitution of Poleâ€toâ€Pole Oscillations of Min Proteins in Microengineered Polydimethylsiloxane Compartments. Angewandte Chemie - International Edition, 2013, 52, 459-462.	13.8	93
71	The Role of Lipids in VDAC Oligomerization. Biophysical Journal, 2012, 102, 523-531.	0.5	92
72	Triple-Color Coincidence Analysis: One Step Further in Following Higher Order Molecular Complex Formation. Biophysical Journal, 2004, 86, 506-516.	0.5	88

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73	Fluorescence correlation studies of lipid domains in model membranes (Review). Molecular Membrane Biology, 2006, 23, 29-39.	2.0	88
74	Treadmilling analysis reveals new insights into dynamic FtsZ ring architecture. PLoS Biology, 2018, 16, e2004845.	5.6	88
75	In situ fluorescence analysis demonstrates active siRNA exclusion from the nucleus by Exportin 5. Nucleic Acids Research, 2006, 34, 1369-1380.	14.5	87
76	Role of ceramide in membrane protein organization investigated by combined AFM and FCS. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1356-1364.	2.6	87
77	Fluorescence Techniques to Study Lipid Dynamics. Cold Spring Harbor Perspectives in Biology, 2011, 3, a009803-a009803.	5.5	87
78	Reconstitution and Anchoring of Cytoskeleton inside Giant Unilamellar Vesicles. ChemBioChem, 2008, 9, 2673-2681.	2.6	85
79	Electron multiplying CCD based detection for spatially resolved fluorescence correlation spectroscopy. Optics Express, 2006, 14, 5013.	3.4	83
80	Model membrane platforms to study protein-membrane interactions. Molecular Membrane Biology, 2012, 29, 144-154.	2.0	83
81	124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. Nano Letters, 2019, 19, 2641-2646.	9.1	82
82	The E. coli MinCDE system in the regulation of protein patterns and gradients. Cellular and Molecular Life Sciences, 2019, 76, 4245-4273.	5.4	81
83	Intracellular applications of fluorescence correlation spectroscopy: prospects for neuroscience. Current Opinion in Neurobiology, 2003, 13, 583-590.	4.2	77
84	Pores Formed by BaxÎ±5 Relax to a Smaller Size and Keep at Equilibrium. Biophysical Journal, 2010, 99, 2917-2925.	0.5	77
85	Switchable domain partitioning and diffusion of DNA origami rods on membranes. Faraday Discussions, 2013, 161, 31-43.	3.2	76
86	Lateral Membrane Diffusion Modulated by a Minimal Actin Cortex. Biophysical Journal, 2013, 104, 1465-1475.	0.5	75
87	Bottom-up synthetic biology: reconstitution in space and time. Current Opinion in Biotechnology, 2019, 60, 179-187.	6.6	75
88	PyCorrFitâ€"generic data evaluation for fluorescence correlation spectroscopy. Bioinformatics, 2014, 30, 2532-2533.	4.1	74
89	Optical Control of Lipid Rafts with Photoswitchable Ceramides. Journal of the American Chemical Society, 2016, 138, 12981-12986.	13.7	74
90	Reconstitution of contractile actomyosin rings in vesicles. Nature Communications, 2021, 12, 2254.	12.8	74

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91	DNA Nanostructures on Membranes as Tools for Synthetic Biology. Biophysical Journal, 2016, 110, 1698-1707.	0.5	73
92	Techniques for single molecule sequencing. Bioimaging, 1997, 5, 139-152.	1.3	73
93	Triple FRET: A tool for Studying Long-Range Molecular Interactions. ChemPhysChem, 2003, 4, 745-748.	2.1	72
94	Membrane Binding of MinE Allows for a Comprehensive Description of Min-Protein Pattern Formation. PLoS Computational Biology, 2013, 9, e1003347.	3.2	72
95	Breakdown of Axonal Synaptic Vesicle Precursor Transport by Microglial Nitric Oxide. Journal of Neuroscience, 2005, 25, 352-362.	3.6	71
96	All-or-None versus Graded: Single-Vesicle Analysis Reveals Lipid Composition Effects on Membrane Permeabilization. Biophysical Journal, 2010, 99, 3619-3628.	0.5	71
97	Towards a bottom-up reconstitution of bacterial cell division. Trends in Cell Biology, 2012, 22, 634-643.	7.9	71
98	Determining Protease Activity In Vivo by Fluorescence Cross-Correlation Analysis. Biophysical Journal, 2005, 89, 2770-2782.	0.5	70
99	Spontaneous Stretching of DNA in a Two-Dimensional Nanoslit. Nano Letters, 2007, 7, 1270-1275.	9.1	70
100	Single-stranded nucleic acids promote SAMHD1 complex formation. Journal of Molecular Medicine, 2013, 91, 759-770.	3.9	70
101	Transport efficiency of membrane-anchored kinesin-1 motors depends on motor density and diffusivity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7185-E7193.	7.1	69
102	How Phospholipid-Cholesterol Interactions Modulate Lipid Lateral Diffusion, as Revealed by Fluorescence Correlation Spectroscopy. Journal of Fluorescence, 2006, 16, 671-678.	2.5	68
103	Flat-top TIRF illumination boosts DNA-PAINT imaging and quantification. Nature Communications, 2019, 10, 1268.	12.8	67
104	MinCDE exploits the dynamic nature of FtsZ filaments for its spatial regulation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1192-200.	7.1	66
105	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. Nature Chemistry, 2019, 11, 779-788.	13.6	66
106	MinE conformational switching confers robustness on self-organized Min protein patterns. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4553-4558.	7.1	65
107	Translational and rotational diffusion of micrometer-sized solid domains in lipid membranes. Soft Matter, 2012, 8, 7552.	2.7	62
108	More from less â€“ bottom-up reconstitution of cell biology. Journal of Cell Science, 2019, 132, .	2.0	61

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109	Efficient Electroformation of Supergiant Unilamellar Vesicles Containing Cationic Lipids on ITO-Coated Electrodes. Langmuir, 2012, 28, 5518-5521.	3.5	60
110	Penetration of Amphiphilic Quantum Dots through Model and Cellular Plasma Membranes. ACS Nano, 2012, 6, 2150-2156.	14.6	59
111	PI(4,5)P₂ Degradation Promotes the Formation of Cytoskeletonâ€Free Model Membrane Systems. ChemPhysChem, 2009, 10, 2805-2812.	2.1	56
112	Dehydration Damage of Domain-Exhibiting Supported Bilayers:â€‰ An AFM Study on the Protective Effects of Disaccharides and Other Stabilizing Substances. Langmuir, 2005, 21, 6317-6323.	3.5	54
113	Asymmetric Supported Lipid Bilayer Formation via Methyl-Î²-Cyclodextrin Mediated Lipid Exchange: Influence of Asymmetry on Lipid Dynamics and Phase Behavior. Langmuir, 2014, 30, 7475-7484.	3.5	54
114	Surface Topology Engineering of Membranes for the Mechanical Investigation of the Tubulin Homologue FtsZ. Angewandte Chemie - International Edition, 2012, 51, 11858-11862.	13.8	53
115	Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets. Angewandte Chemie - International Edition, 2016, 55, 13455-13459.	13.8	53
116	A diffusiophoretic mechanism for ATP-driven transport without motor proteins. Nature Physics, 2021, 17, 850-858.	16.7	53
117	Coordinated recruitment of Spir actin nucleators and myosin V motors to Rab11 vesicle membranes. ELife, 2016, 5, .	6.0	53
118	Two-Photon Fluorescence Coincidence Analysis: Rapid Measurements of Enzyme Kinetics. Biophysical Journal, 2002, 83, 1671-1681.	0.5	52
119	Characterization of Protein Dynamics in Asymmetric Cell Division by Scanning Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 95, 5476-5486.	0.5	52
120	Oligomerization and Pore Formation by Equinatoxin II Inhibit Endocytosis and Lead to Plasma Membrane Reorganization. Journal of Biological Chemistry, 2011, 286, 37768-37777.	3.4	52
121	Cytoskeletal Pinning Controls Phase Separation in Multicomponent Lipid Membranes. Biophysical Journal, 2015, 108, 1104-1113.	0.5	52
122	Pattern formation on membranes and its role in bacterial cell division. Current Opinion in Cell Biology, 2016, 38, 52-59.	5.4	52
123	Synthetic cell division via membrane-transforming molecular assemblies. BMC Biology, 2019, 17, 43.	3.8	52
124	Essential role of endocytosis for Interleukin-4 receptor mediated JAK/STAT signalling. Journal of Cell Science, 2015, 128, 3781-95.	2.0	51
125	Cell-free protein synthesis in micro compartments: building a minimal cell from biobricks. New Biotechnology, 2017, 39, 199-205.	4.4	50
126	Supercritical Angle Fluorescence Correlation Spectroscopy. Biophysical Journal, 2008, 94, 221-229.	0.5	49

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127	Stability of lipid domains. FEBS Letters, 2010, 584, 1653-1658.	2.8	49
128	Intracellular Localization and Routing of miRNA and RNAi Pathway Components. Current Topics in Medicinal Chemistry, 2012, 12, 79-88.	2.1	49
129	The MinDE system is a generic spatial cue for membrane protein distribution in vitro. Nature Communications, 2018, 9, 3942.	12.8	49
130	Differential lipid packing abilities and dynamics in giant unilamellar vesicles composed of short-chain saturated glycerol-phospholipids, sphingomyelin and cholesterol. Chemistry and Physics of Lipids, 2005, 135, 169-180.	3.2	47
131	Single molecule techniques for the study of membrane proteins. Applied Microbiology and Biotechnology, 2007, 76, 257-266.	3.6	46
132	Freeze-thaw cycles induce content exchange between cell-sized lipid vesicles. New Journal of Physics, 2018, 20, 055008.	2.9	46
133	Control of lipid domain organization by a biomimetic contractile actomyosin cortex. ELife, 2017, 6, .	6.0	46
134	Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20063-20068.	7.1	45
135	MinC, MinD, and MinE Drive Counter-oscillation of Early-Cell-Division Proteins Prior to Escherichia coli Septum Formation. MBio, 2013, 4, e00856-13.	4.1	45
136	Total Internal Reflection Fluorescence Correlation Spectroscopy: Effects of Lateral Diffusion and Surface-Generated Fluorescence. Biophysical Journal, 2008, 95, 390-399.	0.5	44
137	Focus on composition and interaction potential of singleâ€pass transmembrane domains. Proteomics, 2010, 10, 4196-4208.	2.2	44
138	A comprehensive framework for fluorescence cross-correlation spectroscopy. New Journal of Physics, 2010, 12, 113009.	2.9	44
139	Reconstitution of cytoskeletal protein assemblies for large-scale membrane transformation. Current Opinion in Chemical Biology, 2014, 22, 18-26.	6.1	44
140	DNA Origami Nanoneedles on Freestanding Lipid Membranes as a Tool To Observe Isotropicâ€“Nematic Transition in Two Dimensions. Nano Letters, 2015, 15, 649-655.	9.1	44
141	Quantifying Lipid Diffusion by Fluorescence Correlation Spectroscopy: A Critical Treatise. Langmuir, 2012, 28, 13395-13404.	3.5	43
142	Correcting for Spectral Crossâ€Talk in Dualâ€Color Fluorescence Crossâ€Correlation Spectroscopy. ChemPhysChem, 2012, 13, 1221-1231.	2.1	43
143	Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. Molecules, 2018, 23, 3165.	3.8	43
144	Stationary Patterns in a Two-Protein Reaction-Diffusion System. ACS Synthetic Biology, 2019, 8, 148-157.	3.8	43

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145	Phosphatidylethanolamine critically supports internalization of cell-penetrating protein C inhibitor. Journal of Cell Biology, 2007, 179, 793-804.	5.2	41
146	Supported Lipid Bilayers on Spacious and pH-Responsive Polymer Cushions with Varied Hydrophilicity. Journal of Physical Chemistry B, 2008, 112, 6373-6378.	2.6	41
147	Fluorescence Correlation Spectroscopy for the Study of Membrane Dynamics and Organization in Giant Unilamellar Vesicles. Methods in Molecular Biology, 2010, 606, 493-508.	0.9	40
148	Dynamics and Interaction of Interleukin-4 Receptor Subunits in Living Cells. Biophysical Journal, 2014, 107, 2515-2527.	0.5	40
149	Minimal systems to study membraneâ€"cytoskeleton interactions. Current Opinion in Biotechnology, 2012, 23, 758-765.	6.6	39
150	Control of Membrane Binding and Diffusion of Cholesteryl-Modified DNA Origami Nanostructures by DNA Spacers. Langmuir, 2018, 34, 14921-14931.	3.5	39
151	Protein Reconstitution Inside Giant Unilamellar Vesicles. Annual Review of Biophysics, 2021, 50, 525-548.	10.0	39
152	Myosin-II activity generates a dynamic steady state with continuous actin turnover in a minimal actin cortex. Journal of Cell Science, 2019, 132, .	2.0	39
153	Phosphoinositides regulate force-independent interactions between talin, vinculin, and actin. ELife, 2020, 9, .	6.0	39
154	Mass-sensitive particle tracking to elucidate the membrane-associated MinDE reaction cycle. Nature Methods, 2021, 18, 1239-1246.	19.0	39
155	Reversible membrane deformations by straight DNA origami filaments. Soft Matter, 2021, 17, 276-287.	2.7	38
156	Four-color fluorescence correlation spectroscopy realized in a grating-based detection platform. Optics Letters, 2005, 30, 2266.	3.3	37
157	Preparation of Micrometerâ€Sized Freeâ€Standing Membranes. ChemPhysChem, 2011, 12, 2568-2571.	2.1	37
158	Lateral Diffusion of Membrane Lipid-Anchored Probes before and after Aggregation of Cell Surface IgE-Receptorsâ€. Journal of Physical Chemistry A, 2003, 107, 8310-8318.	2.5	35
159	Photobleaching in Twoâ€Photon Scanning Fluorescence Correlation Spectroscopy. ChemPhysChem, 2008, 9, 147-158.	2.1	35
160	Scanning FCS for the Characterization of Protein Dynamics in Live Cells. Methods in Enzymology, 2010, 472, 317-343.	1.0	35
161	FRET and FCSâ€"Friends or Foes?. ChemPhysChem, 2011, 12, 532-541.	2.1	35
162	FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. Biophysical Journal, 2015, 108, 2371-2383.	0.5	33

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163	Toward Absolute Molecular Numbers in DNA-PAINT. Nano Letters, 2019, 19, 8182-8190.	9.1	33
164	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. Nature Communications, 2021, 12, 4086.	12.8	33
165	Scanning Dual-Color Cross-Correlation Analysis for Dynamic Co-Localization Studies of Immobile Molecules. Single Molecules, 2002, 3, 201-210.	0.9	32
166	Cholesterol Slows down the Lateral Mobility of an Oxidized Phospholipid in a Supported Lipid Bilayer. Langmuir, 2010, 26, 17322-17329.	3.5	32
167	Single Cell Analysis of Ligand Binding and Complex Formation ofÂInterleukin-4 Receptor Subunits. Biophysical Journal, 2011, 101, 2360-2369.	0.5	32
168	Surface topology assisted alignment of Min protein waves. FEBS Letters, 2014, 588, 2545-2549.	2.8	32
169	Jump-starting life? Fundamental aspects of synthetic biology. Journal of Cell Biology, 2015, 210, 687-690.	5.2	32
170	Quantifying Reversible Surface Binding via Surface-Integrated Fluorescence Correlation Spectroscopy. Nano Letters, 2018, 18, 3185-3192.	9.1	32
171	Effect of anchor positioning on binding and diffusion of elongated 3D DNA nanostructures on lipid membranes. Journal Physics D: Applied Physics, 2016, 49, 194001.	2.8	31
172	Design of biochemical pattern forming systems from minimal motifs. ELife, 2019, 8, .	6.0	31
173	Multimerizable HIV Gag derivative binds to the liquid-disordered phase in model membranes. Cellular Microbiology, 2013, 15, 237-247.	2.1	29
174	Analyzing single protein molecules using optical methods. Current Opinion in Biotechnology, 2001, 12, 382-386.	6.6	28
175	Longâ€Range Transport of Giant Vesicles along Microtubule Networks. ChemPhysChem, 2012, 13, 1001-1006.	2.1	28
176	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinEâ€™s membrane targeting sequence. PLoS ONE, 2017, 12, e0179582.	2.5	28
177	Membrane association and remodeling by intraflagellar transport protein IFT172. Nature Communications, 2018, 9, 4684.	12.8	28
178	Single Particle Tracking and Super-Resolution Imaging of Membrane-Assisted Stop-and-Go Diffusion and Lattice Assembly of DNA Origami. ACS Nano, 2019, 13, 996-1002.	14.6	28
179	FtsZ Reorganization Facilitates Deformation of Giant Vesicles in Microfluidic Traps**. Angewandte Chemie - International Edition, 2020, 59, 21372-21376.	13.8	28
180	CTP-controlled liquidâ€"liquid phase separation of ParB. Journal of Molecular Biology, 2022, 434, 167401.	4.2	28

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181	Two-Photon Fluorescence Cross-Correlation Spectroscopy. ChemPhysChem, 2001, 2, 269-272.	2.1	27
182	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577.	2.0	27
183	FtsZ induces membrane deformations via torsional stress upon GTP hydrolysis. Nature Communications, 2021, 12, 3310.	12.8	27
184	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. ELife, 2019, 8, .	6.0	27
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