Petra Schwille

List of Publications by Year
in descending order

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Version: 2024-02-01

302 papers	25,812 citations	7069 78 h-index	8370 147 g-index
350 all docs	350 docs citations	350 times ranked	25151 citing authors

#	Article	IF	Citations
1	Hidden protein functions and what they may teach us. Trends in Cell Biology, 2022, 32, 102-109.	3.6	5
2	CTP-controlled liquidâ€“liquid phase separation of ParB. Journal of Molecular Biology, 2022, 434, 167401.	2.0	28
3	Elucidating mechanisms of protein self-organization on membranes. Biophysical Journal, 2022, 121, 319a.	0.2	0
4	Mass-Sensitive Particle Tracking to Characterize Membrane-Associated Macromolecule Dynamics. Journal of Visualized Experiments, 2022, , .	0.2	2
5	Tracing back variations in archaeal ESCRT-based cell division to protein domain architectures. PLoS ONE, 2022, 17, e0266395.	1.1	9
6	Dendrimersome Synthetic Cells Harbor Cell Division Machinery of Bacteria. Advanced Materials, 2022, 34, e2202364.	11.1	7
7	3D printed protein-based robotic structures actuated by molecular motor assemblies. Nature Materials, 2022, 21, 703-709.	13.3	12
8	Reversible membrane deformations by straight DNA origami filaments. Soft Matter, 2021, 17, 276-287.	1.2	38
9	Fineâ€Tuning Protein Selfâ€Organization by Orthogonal Chemoâ€Optogenetic Tools. Angewandte Chemie - International Edition, 2021, 60, 4501-4506.	7.2	12
10	Fineâ€Tuning Protein Selfâ€Organization by Orthogonal Chemoâ€Optogenetic Tools. Angewandte Chemie, 2021, 133, 4551-4556.	1.6	4
11	Nonâ€Equilibrium Largeâ€Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. Angewandte Chemie, 2021, 133, 6570-6576.	1.6	0
12	Nonâ€Equilibrium Largeâ€Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. Angewandte Chemie - International Edition, 2021, 60, 6496-6502.	7.2	10
13	Active shape oscillations of giant vesicles with cyclic closure and opening of membrane necks. Soft Matter, 2021, 17, 319-330.	1.2	20
14	Membrane-coated 3D architectures for bottom-up synthetic biology. Soft Matter, 2021, 17, 5456-5466.	1.2	11
15	De novo design of a reversible phosphorylation-dependent switch for membrane targeting. Nature Communications, 2021, 12, 1472.	5.8	25
16	Increasing Minâ€™s Membrane Affinity Yields Standing Wave Oscillations and Functional Gradients on Flat Membranes. ACS Synthetic Biology, 2021, 10, 939-949.	1.9	11
17	Reconstitution of contractile actomyosin rings in vesicles. Nature Communications, 2021, 12, 2254.	5.8	74
18	A diffusiophoretic mechanism for ATP-driven transport without motor proteins. Nature Physics, 2021, 17, 850-858.	6.5	53

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19	Protein Reconstitution Inside Giant Unilamellar Vesicles. Annual Review of Biophysics, 2021, 50, 525-548.	4.5	39
20	FtsZ induces membrane deformations via torsional stress upon GTP hydrolysis. Nature Communications, 2021, 12, 3310.	5.8	27
21	Molecular-scale visualization of sarcomere contraction within native cardiomyocytes. Nature Communications, 2021, 12, 4086.	5.8	33
22	Tracking single particles for hours via continuous DNA-mediated fluorophore exchange. Nature Communications, 2021, 12, 4432.	5.8	18
23	Hydration Layer of Only a Few Molecules Controls Lipid Mobility in Biomimetic Membranes. Journal of the American Chemical Society, 2021, 143, 14551-14562.	6.6	24
24	Actin crosslinker competition and sorting drive emergent GUV size-dependent actin network architecture. Communications Biology, 2021, 4, 1136.	2.0	26
25	Self-organized protein patterns: The MinCDE and ParABS systems. Current Opinion in Cell Biology, 2021, 72, 106-115.	2.6	14
26	Membraneâ€Mediated Selfâ€Organization of Rodâ€Like DNA Origami on Supported Lipid Bilayers. Advanced Materials Interfaces, 2021, 8, 2101094.	1.9	4
27	Mass-sensitive particle tracking to elucidate the membrane-associated MinDE reaction cycle. Nature Methods, 2021, 18, 1239-1246.	9.0	39
28	Probing Biomolecular Interactions by a Pattern-Forming Peptideâ€“Conjugate Sensor. Bioconjugate Chemistry, 2021, 32, 172-181.	1.8	0
29	Design Features to Accelerate the Higher-Order Assembly of DNA Origami on Membranes. Journal of Physical Chemistry B, 2021, 125, 13181-13191.	1.2	3
30	Rapid Encapsulation of Reconstituted Cytoskeleton Inside Giant Unilamellar Vesicles. Journal of Visualized Experiments, 2021, , .	0.2	9
31	Calibration-free counting of low molecular copy numbers in single DNA-PAINT localization clusters. Biophysical Reports, 2021, 1, 100032.	0.7	2
32	How Can Microfluidic and Microfabrication Approaches Make Experiments More Physiologically Relevant?. Cell Systems, 2020, 11, 209-211.	2.9	11
33	The speed of FtsZ treadmilling is tightly regulated by membrane binding. Scientific Reports, 2020, 10, 10447.	1.6	10
34	3D Printing: Shaping Giant Membrane Vesicles in 3Dâ€Printed Protein Hydrogel Cages (Small 27/2020). Small, 2020, 16, 2070151.	5.2	0
35	FtsZ Reorganization Facilitates Deformation of Giant Vesicles in Microfluidic Traps**. Angewandte Chemie, 2020, 132, 21556-21560.	1.6	4
36	FtsZ Reorganization Facilitates Deformation of Giant Vesicles in Microfluidic Traps**. Angewandte Chemie - International Edition, 2020, 59, 21372-21376.	7.2	28

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37	Symmetry Breaking and Emergence of Directional Flows in Minimal Actomyosin Cortices. Cells, 2020, 9, 1432.	1.8	7
38	Local Self-Enhancement of MinD Membrane Binding in Min Protein Pattern Formation. Journal of Molecular Biology, 2020, 432, 3191-3204.	2.0	14
39	Shaping Giant Membrane Vesicles in 3Dâ€Printed Protein Hydrogel Cages. Small, 2020, 16, e1906259.	5.2	12
40	Phosphoinositides regulate force-independent interactions between talin, vinculin, and actin. ELife, 2020, 9, .	2.8	39
41	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. Nature Chemistry, 2019, 11, 779-788.	6.6	66
42	Reconstitution and Coupling of DNA Replication and Segregation in a Biomimetic System. ChemBioChem, 2019, 20, 2633-2642.	1.3	7
43	The E. coli MinCDE system in the regulation of protein patterns and gradients. Cellular and Molecular Life Sciences, 2019, 76, 4245-4273.	2.4	81
44	Toward Absolute Molecular Numbers in DNA-PAINT. Nano Letters, 2019, 19, 8182-8190.	4.5	33
45	Cellâ€Free Protein Synthesis and Its Perspectives for Assembling Cells from the Bottomâ€Up. Advanced Biology, 2019, 3, e1800322.	3.0	19
46	Manfred Eigen (1927â€“2019). Angewandte Chemie - International Edition, 2019, 58, 9323-9324.	7.2	0
47	Synthetic cell division via membrane-transforming molecular assemblies. BMC Biology, 2019, 17, 43.	1.7	52
48	Fluorescence Correlation Spectroscopy to Examine Proteinâ€“Lipid Interactions in Membranes. Methods in Molecular Biology, 2019, 2003, 415-447.	0.4	6
49	Bottom-up synthetic biology: reconstitution in space and time. Current Opinion in Biotechnology, 2019, 60, 179-187.	3.3	75
50	Design of Sealable Custom-Shaped Cell Mimicries Based on Self-Assembled Monolayers on CYTOP Polymer. ACS Applied Materials & Interfaces, 2019, 11, 21372-21380.	4.0	8
51	Temperature-sensitive protein expression in protocells. Chemical Communications, 2019, 55, 6421-6424.	2.2	15
52	124-Color Super-resolution Imaging by Engineering DNA-PAINT Blinking Kinetics. Nano Letters, 2019, 19, 2641-2646.	4.5	82
53	Flat-top TIRF illumination boosts DNA-PAINT imaging and quantification. Nature Communications, 2019, 10, 1268.	5.8	67
54	Cytoskeletal and Actinâ€Based Polymerization Motors and Their Role in Minimal Cell Design. Advanced Biology, 2019, 3, 1800311.	3.0	7

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55	Functional Modules of Minimal Cell Division for Synthetic Biology. Advanced Biology, 2019, 3, 1800315.	3.0	15
56	More from less â€“ bottom-up reconstitution of cell biology. Journal of Cell Science, 2019, 132, .	1.2	61
57	An order of magnitude faster DNA-PAINT imaging by optimized sequence design and buffer conditions. Nature Methods, 2019, 16, 1101-1104.	9.0	102
58	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.	7.3	28
59	Stationary Patterns in a Two-Protein Reaction-Diffusion System. ACS Synthetic Biology, 2019, 8, 148-157.	1.9	43
60	In vitro reconstitution of the bacterial cytoskeleton: expected and unexpected new insights. Microbial Biotechnology, 2019, 12, 74-76.	2.0	1
61	Division in synthetic cells. Emerging Topics in Life Sciences, 2019, 3, 551-558.	1.1	20
62	Myosin-II activity generates a dynamic steady state with continuous actin turnover in a minimal actin cortex. Journal of Cell Science, 2019, 132, .	1.2	39
63	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. ELife, 2019, 8, .	2.8	27
64	Design of biochemical pattern forming systems from minimal motifs. ELife, 2019, 8, .	2.8	31
65	Membrane sculpting by curved DNA origami scaffolds. Nature Communications, 2018, 9, 811.	5.8	173
66	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.	3.3	65
67	Quantifying Reversible Surface Binding via Surface-Integrated Fluorescence Correlation Spectroscopy. Nano Letters, 2018, 18, 3185-3192.	4.5	32
68	Freeze-thaw cycles induce content exchange between cell-sized lipid vesicles. New Journal of Physics, 2018, 20, 055008.	1.2	46
69	Reverse and forward engineering of protein pattern formation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170104.	1.8	11
70	Optical Control of a Biological Reactionâ€“Diffusion System. Angewandte Chemie, 2018, 130, 2386-2390.	1.6	7
71	Optical Control of a Biological Reactionâ€“Diffusion System. Angewandte Chemie - International Edition, 2018, 57, 2362-2366.	7.2	25
72	Photophysical Behavior of mNeonGreen, an Evolutionarily Distant Green Fluorescent Protein. Biophysical Journal, 2018, 114, 2419-2431.	0.2	25

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73	FCS Analysis of Protein Mobility on Lipid Monolayers. Biophysical Journal, 2018, 114, 2444-2454.	0.2	10
74	There and back again: from the origin of life to single molecules. European Biophysics Journal, 2018, 47, 493-498.	1.2	7
75	High-Speed Atomic Force Microscopy Reveals the Inner Workings of the MinDE Protein Oscillator. Nano Letters, 2018, 18, 288-296.	4.5	22
76	Frontispiece: Beating Vesicles: Encapsulated Protein Oscillations Cause Dynamic Membrane Deformations. Angewandte Chemie - International Edition, 2018, 57, .	7.2	0
77	Frontispiz: Tanzende Vesikel: Proteinoszillationen fÃ¼hren zu periodischer Membranverformung. Angewandte Chemie, 2018, 130, .	1.6	0
78	Membrane association and remodeling by intraflagellar transport protein IFT172. Nature Communications, 2018, 9, 4684.	5.8	28
79	Tanzende Vesikel: Proteinoszillationen fÃ¼hren zu periodischer Membranverformung. Angewandte Chemie, 2018, 130, 16522-16527.	1.6	13
80	Protein Pattern Formation. , 2018, , 229-260.		16
81	Plasmonic Nanosensors Reveal a Height Dependence of MinDE Protein Oscillations on Membrane Features. Journal of the American Chemical Society, 2018, 140, 17901-17906.	6.6	26
82	Photo-Induced Depletion of Binding Sites in DNA-PAINT Microscopy. Molecules, 2018, 23, 3165.	1.7	43
83	The MinDE system is a generic spatial cue for membrane protein distribution in vitro. Nature Communications, 2018, 9, 3942.	5.8	49
84	Beating Vesicles: Encapsulated Protein Oscillations Cause Dynamic Membrane Deformations. Angewandte Chemie - International Edition, 2018, 57, 16286-16290.	7.2	142
85	Control of Membrane Binding and Diffusion of Cholesteryl-Modified DNA Origami Nanostructures by DNA Spacers. Langmuir, 2018, 34, 14921-14931.	1.6	39
86	Light-Induced Printing of Protein Structures on Membranes in Vitro. Nano Letters, 2018, 18, 7133-7140.	4.5	15
87	Switching protein patterns on membranes. Current Opinion in Colloid and Interface Science, 2018, 38, 100-107.	3.4	3
88	In Vitro Reconstitution of Self-Organizing Protein Patterns on Supported Lipid Bilayers. Journal of Visualized Experiments, 2018, , .	0.2	20
89	Liposomes and polymersomes: a comparative review towards cell mimicking. Chemical Society Reviews, 2018, 47, 8572-8610.	18.7	731
90	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577.	1.6	27

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91	Treadmilling analysis reveals new insights into dynamic FtsZ ring architecture. PLoS Biology, 2018, 16, e2004845.	2.6	88
92	High-Speed AFM Correlation Spectroscopy (HS-AMF-CS): ÂµS Protein Dynamics without Labels. Biophysical Journal, 2018, 114, 70a-71a.	0.2	0
93	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392.	7.2	234
94	Direct characterization of the evanescent field in objective-type total internal reflection fluorescence microscopy. Optics Express, 2018, 26, 20492.	1.7	19
95	Reconstitution of Protein Dynamics Involved in Bacterial Cell Division. Sub-Cellular Biochemistry, 2017, 84, 419-444.	1.0	7
96	How Simple Could Life Be?. Angewandte Chemie - International Edition, 2017, 56, 10998-11002.	7.2	20
97	Wie einfach kann Leben sein?. Angewandte Chemie, 2017, 129, 11142-11146.	1.6	2
98	Biology and the art of abstraction. Biophysical Reviews, 2017, 9, 273-275.	1.5	2
99	Cell-free protein synthesis in micro compartments: building a minimal cell from biobricks. New Biotechnology, 2017, 39, 199-205.	2.4	50
100	Revolving around constriction by ESCRT-III. Nature Cell Biology, 2017, 19, 754-756.	4.6	6
101	Diffusion of Single-Pass Transmembrane Receptors: From the Plasma Membrane into Giant Liposomes. Journal of Membrane Biology, 2017, 250, 393-406.	1.0	13
102	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinEâ€™s membrane targeting sequence. PLoS ONE, 2017, 12, e0179582.	1.1	28
103	Control of lipid domain organization by a biomimetic contractile actomyosin cortex. ELife, 2017, 6, .	2.8	46
104	Effect of anchor positioning on binding and diffusion of elongated 3D DNA nanostructures on lipid membranes. Journal Physics D: Applied Physics, 2016, 49, 194001.	1.3	31
105	DNA Nanostructures on Membranes as Tools for Synthetic Biology. Biophysical Journal, 2016, 110, 1698-1707.	0.2	73
106	Single Particle Plasmon Sensors as Label-Free Technique To Monitor MinDE Protein Wave Propagation on Membranes. Nano Letters, 2016, 16, 3540-3544.	4.5	24
107	In vitro Reconstitution of a Membrane Switch Mechanism for the Polarity Protein LGL. Journal of Molecular Biology, 2016, 428, 4828-4842.	2.0	15
108	Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets. Angewandte Chemie - International Edition, 2016, 55, 13455-13459.	7.2	53

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109	Optical Control of Lipid Rafts with Photoswitchable Ceramides. Journal of the American Chemical Society, 2016, 138, 12981-12986.	6.6	74
110	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.	3.3	69
111	Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets. Angewandte Chemie, 2016, 128, 13653-13657.	1.6	11
112	Innentitelbild: Protein Patterns and Oscillations on Lipid Monolayers and in Microdroplets (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	0
113	Single DNA molecules on freestanding and supported cationic lipid bilayers: diverse conformational dynamics controlled by the local bilayer properties. Journal Physics D: Applied Physics, 2016, 49, 074001.	1.3	7
114	Pattern formation on membranes and its role in bacterial cell division. Current Opinion in Cell Biology, 2016, 38, 52-59.	2.6	52
115	Coordinated recruitment of Spir actin nucleators and myosin V motors to Rab11 vesicle membranes. ELife, 2016, 5, .	2.8	53
116	Diffusion coefficients and dissociation constants of enhanced green fluorescent protein binding to free standing membranes. Data in Brief, 2015, 5, 537-541.	0.5	7
117	Petra Schwille: Taking a minimalist approach to membranes. Journal of Cell Biology, 2015, 209, 320-321.	2.3	0
118	Membrane Targeting of the SpirÂ·Formin Actin Nucleator Complex Requires a Sequential Handshake of Polar Interactions. Journal of Biological Chemistry, 2015, 290, 6428-6444.	1.6	22
119	Reconstituting geometry-modulated protein patterns in membrane compartments. Methods in Cell Biology, 2015, 128, 149-163.	0.5	9
120	Amphipathic DNA Origami Nanoparticles to Scaffold and Deform Lipid Membrane Vesicles. Angewandte Chemie - International Edition, 2015, 54, 6501-6505.	7.2	107
121	FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. Biophysical Journal, 2015, 108, 2371-2383.	0.2	33
122	Cytoskeletal Pinning Controls Phase Separation in Multicomponent Lipid Membranes. Biophysical Journal, 2015, 108, 1104-1113.	0.2	52
123	Essential role of endocytosis for Interleukin-4 receptor mediated JAK/STAT signalling. Journal of Cell Science, 2015, 128, 3781-95.	1.2	51
124	Jump-starting life? Fundamental aspects of synthetic biology. Journal of Cell Biology, 2015, 210, 687-690.	2.3	32
125	Introducing a fluorescence-based standard to quantify protein partitioning into membranes. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2932-2941.	1.4	11
126	DNA Origami Nanoneedles on Freestanding Lipid Membranes as a Tool To Observe Isotropicâ€“Nematic Transition in Two Dimensions. Nano Letters, 2015, 15, 649-655.	4.5	44

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127	Adaptive Lipid Packing and Bioactivity in Membrane Domains. PLoS ONE, 2015, 10, e0123930.	1.1	96
128	Toward Spatially Regulated Division of Protocells: Insights into the E. coli Min System from in Vitro Studies. Life, 2014, 4, 915-928.	1.1	15
129	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.	3.3	66
130	ESCRT-III mediated cell division in Sulfolobus acidocaldarius Ã¢â‚¬â€œ a reconstitution perspective. Frontiers in Microbiology, 2014, 5, 257.	1.5	14
131	PyCorrFitâ€”generic data evaluation for fluorescence correlation spectroscopy. Bioinformatics, 2014, 30, 2532-2533.	1.8	74
132	Highlight issue: membranes in motion. Biological Chemistry, 2014, 395, 251-251.	1.2	0
133	Dynamics and Interaction of Interleukin-4 Receptor Subunits in Living Cells. Biophysical Journal, 2014, 107, 2515-2527.	0.2	40
134	Reconstitution of cytoskeletal protein assemblies for large-scale membrane transformation. Current Opinion in Chemical Biology, 2014, 22, 18-26.	2.8	44
135	Bacterial Cell Division: A Swirling Ring to Rule Them All?. Current Biology, 2014, 24, R157-R159.	1.8	8
136	Cross-linked and pH sensitive supported polymer bilayers from polymersomes â€“ studies concerning thickness, rigidity and fluidity. Soft Matter, 2014, 10, 75-82.	1.2	16
137	Surface topology assisted alignment of Min protein waves. FEBS Letters, 2014, 588, 2545-2549.	1.3	32
138	Fluorescence fluctuation microscopy: a diversified arsenal of methods to investigate molecular dynamics inside cells. Current Opinion in Structural Biology, 2014, 28, 69-76.	2.6	25
139	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.	1.6	54
140	Lattice-Based Monte Carlo Simulations of Lipid Membranes: Correspondence between Triangular and Square Lattices. Biophysical Journal, 2014, 106, 290a-291a.	0.2	0
141	Reconstitution of self-organizing protein gradients as spatial cues in cell-free systems. ELife, 2014, 3, .	2.8	124
142	Single-stranded nucleic acids promote SAMHD1 complex formation. Journal of Molecular Medicine, 2013, 91, 759-770.	1.7	70
143	A Monolayer Assay Tailored to Investigate Lipidâ€“Protein Systems. ChemPhysChem, 2013, 14, 1877-1881.	1.0	12
144	Lypd6 Enhances Wnt/Î²-Catenin Signaling by Promoting Lrp6 Phosphorylation in Raft Plasma Membrane Domains. Developmental Cell, 2013, 26, 331-345.	3.1	101

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145	The design of MACs (minimal actin cortices). Cytoskeleton, 2013, 70, 706-717.	1.0	24
146	High-resolution three-photon biomedical imaging using doped ZnS nanocrystals. Nature Materials, 2013, 12, 359-366.	13.3	240
147	Reconstitution of Poleâ€toâ€Pole Oscillations of Min Proteins in Microengineered Polydimethylsiloxane Compartments. Angewandte Chemie - International Edition, 2013, 52, 459-462.	7.2	93
148	Cells must Accumulate Interleukin-4 Receptor Subunits within CorticalÂSignaling Endosomes to Drive Complex Formation and Signal Transduction. Biophysical Journal, 2013, 104, 610a.	0.2	0
149	Multimerizable HIV Gag derivative binds to the liquid-disordered phase in model membranes. Cellular Microbiology, 2013, 15, 237-247.	1.1	29
150	Influence of glycosaminoglycans on lipid dynamics in supported phospholipid bilayers. Soft Matter, 2013, 9, 3859.	1.2	14
151	Loss-of-function mutations in the IL-21 receptor gene cause a primary immunodeficiency syndrome. Journal of Experimental Medicine, 2013, 210, 433-443.	4.2	186
152	Dual-Color Fluorescence Cross-Correlation Spectroscopy with Continuous Laser Excitation in a Confocal Setup. Methods in Enzymology, 2013, 518, 43-70.	0.4	24
153	Editorial: Chemistry Needed: Synthetic Biology as a New Incentive for Interdisciplinarity. Angewandte Chemie - International Edition, 2013, 52, 2616-2617.	7.2	5
154	Lateral Membrane Diffusion Modulated by a Minimal Actin Cortex. Biophysical Journal, 2013, 104, 1465-1475.	0.2	75
155	Photoconversion of Bodipyâ€Labeled Lipid Analogues. ChemBioChem, 2013, 14, 695-698.	1.3	16
156	Switchable domain partitioning and diffusion of DNA origami rods on membranes. Faraday Discussions, 2013, 161, 31-43.	1.6	76
157	MinC, MinD, and MinE Drive Counter-oscillation of Early-Cell-Division Proteins Prior to Escherichia coli Septum Formation. MBio, 2013, 4, e00856-13.	1.8	45
158	Membrane Binding of MinE Allows for a Comprehensive Description of Min-Protein Pattern Formation. PLoS Computational Biology, 2013, 9, e1003347.	1.5	72
159	Propagation of <scp>M</scp>in<scp>CDE</scp> waves on freeâ€standing membranes. Environmental Microbiology, 2013, 15, 3319-3326.	1.8	20
160	Editorial: Mehr Chemie bitte: Synthesebiologie als neuer Impuls fÃ¼r die InterdisziplinaritÄt. Angewandte Chemie, 2013, 125, 2678-2679.	1.6	2
161	Caspase-8 Binding to Cardiolipin in Giant Unilamellar Vesicles Provides a Functional Docking Platform for Bid. PLoS ONE, 2013, 8, e55250.	1.1	24
162	Myosin motors fragment and compact membrane-bound actin filaments. ELife, 2013, 2, e00116.	2.8	115

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163	Intracellular Localization and Routing of miRNA and RNAi Pathway Components. Current Topics in Medicinal Chemistry, 2012, 12, 79-88.	1.0	49
164	Cholesterol and Sphingomyelin Drive Ligand-independent T-cell Antigen Receptor Nanoclustering. Journal of Biological Chemistry, 2012, 287, 42664-42674.	1.6	145
165	Excitation Spectra and Brightness Optimization of Two-Photon Excited Probes. Biophysical Journal, 2012, 102, 934-944.	0.2	100
166	Effect of temperature on the formation of liquid phase-separating giant unilamellar vesicles (GUV). Chemistry and Physics of Lipids, 2012, 165, 630-637.	1.5	13
167	Correcting for Artifacts from Spectral Cross-Talk and Imperfect Detection Volume Overlap in Dual-Color Fluorescence Cross-Correlation Spectroscopy. Biophysical Journal, 2012, 102, 216a.	0.2	0
168	Efficient Electroformation of Supergiant Unilamellar Vesicles Containing Cationic Lipids on ITO-Coated Electrodes. Langmuir, 2012, 28, 5518-5521.	1.6	60
169	Penetration of Amphiphilic Quantum Dots through Model and Cellular Plasma Membranes. ACS Nano, 2012, 6, 2150-2156.	7.3	59
170	Quantifying Lipid Diffusion by Fluorescence Correlation Spectroscopy: A Critical Treatise. Langmuir, 2012, 28, 13395-13404.	1.6	43
171	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.	3.3	154
172	Geometry sensing by self-organized protein patterns. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15283-15288.	3.3	115
173	Model membrane platforms to study protein-membrane interactions. Molecular Membrane Biology, 2012, 29, 144-154.	2.0	83
174	Partitioning, diffusion, and ligand binding of raft lipid analogs in model and cellular plasma membranes. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1777-1784.	1.4	301
175	Surface Topology Engineering of Membranes for the Mechanical Investigation of the Tubulin Homologue FtsZ. Angewandte Chemie - International Edition, 2012, 51, 11858-11862.	7.2	53
176	The Role of Lipids in VDAC Oligomerization. Biophysical Journal, 2012, 102, 523-531.	0.2	92
177	Minimal systems to study membraneâ€“cytoskeleton interactions. Current Opinion in Biotechnology, 2012, 23, 758-765.	3.3	39
178	Towards a bottom-up reconstitution of bacterial cell division. Trends in Cell Biology, 2012, 22, 634-643.	3.6	71
179	Translational and rotational diffusion of micrometer-sized solid domains in lipid membranes. Soft Matter, 2012, 8, 7552.	1.2	62
180	Elucidating membrane structure and protein behavior using giant plasma membrane vesicles. Nature Protocols, 2012, 7, 1042-1051.	5.5	461

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181	Fluorescence correlation spectroscopy. BioEssays, 2012, 34, 361-368.	1.2	207
182	Longâ€Range Transport of Giant Vesicles along Microtubule Networks. ChemPhysChem, 2012, 13, 1001-1006.	1.0	28
183	Correcting for Spectral Crossâ€Talk in Dualâ€Color Fluorescence Crossâ€Correlation Spectroscopy. ChemPhysChem, 2012, 13, 1221-1231.	1.0	43
184	Bottom-Up Synthetic Biology: Engineering in a Tinkererâ€™s World. Science, 2011, 333, 1252-1254.	6.0	203
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